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National Institutes of Health RESEARCH GRANTS

FISCAL YEAR 1968 FUNDS



Statistics and Analysis Branch •• Division of Research Grants

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National Institutes of Health **RESEARCH GRANTS**

FISCAL YEAR 1968 FUNDS

U.S. National Institutes of Health
Statistics and Analysis Branch · · Division of Research Grants

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1958

NATIONAL INSTITUTES OF HEALTH

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FOREWORD

In the fiscal year 1968, several events changed the status, organization, and functions of the National Institutes of Health. It is now a constituent administration under the Assistant Secretary for Health and Scientific Affairs, Department of Health, Education, and Welfare. The NIH now includes a broad educational function (the Bureau of Health Manpower) as well as the National Library of Medicine--both of whose research grant programs are reflected in this listing.

The principal characteristic of this volume is the relatively short time-interval required to produce the publication. A similar book on training will be issued shortly. Perhaps next year it will be feasible to reduce even further the number of weeks required to issue the listing.

Table 2 of this volume was prepared at the Government Printing Office directly from a magnetic tape supplied by IMPAC, the computer-based data system maintained by the Statistics and Analysis Branch, Division of Research Grants, through the GPO's Linotron System. This is a cathode-ray-tube phototype-setting system operating at computer speed but producing typography of traditional graphic arts quality.

Like all such initial endeavors, the attempt leaves one somewhat apprehensive over the possibility of error. But so much time can be saved by utilizing the latest computer and phototypesetting technology, that the staff of the Division of Research Grants has tried a new approach.

In previous years, the DRG staff has prepared a 5-volume listing of all Public Health Service grants and awards. Because of delays in compiling the data and the laborious task of copy preparation, letterpress typesetting, and proofing, publication has been delayed for several months. The FY 1968 "Blue Book" series for the Public Health Service will also be published this year. Thus, this volume of NIH research grants is complementary to the PHS series.



Robert Q. Marston, M.D.

Director

National Institutes of Health

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GLOSSARY OF ABBREVIATIONS

The initial review groups and study sections giving technical review to applications are indicated by alphabetical code under the column headed "IRG" in the listing of research grants (table 2). A listing of initial review groups by code letters follows.

AFY	Applied Physiology
AIA	Allergy and Immunology A
AIB	Allergy and Immunology B
AIP	Allergy and Infectious Diseases
ALY	Allergy and Immunology
AMP	Arthritis and Metabolic Diseases (DRG)
AR	Animal Resources (DRFR)
BBC	Biophysics and Biophysical Chemistry
BBCA	Biophysics and Biophysical Chemistry A
BBCB	Biophysics and Biophysical Chemistry B
BCM	Biomedical Communications
BIO	Biochemistry
BM	Bacteriology and Mycology
BMA	Bacteriology and Mycology A
BMB	Bacteriology and Mycology B
BS	Behavioral Sciences
CAP	Cancer
CB	Cell Biology
CBY	Cell Biology
CBYA	Cell Biology A
CBYB	Cell Biology B
CDC	Communicable Disease Control (NCDC-BDPEC)
CIC	Committee on International Centers (OIR)
CLR	Clinical Research Centers (DRFR)
CMS	Communicative Sciences
COM	Computer Research
CPR	Clinical Projects Research Review Committee (NIMH)
CSP	Scientific Publications (NLM)
CV	Cardiovascular
CVA	Cardiovascular A
CVB	Cardiovascular B
DBR	Developmental Behavioral Sciences
DC	Epidemiology and Disease Control
DEN	Dental (Initial Review Group)
DEP	Dental (NIDR)
DER	Dermatology (NIAMD)
DSR	Dental Research Institute Review Committee (NIDR)
EDC	Epidemiology and Disease Control
END	Endocrinology
EP	Experimental Psychology
EPA	Experimental Psychology A

EPR	Experimental Psychology Research Review Committee (NIMH)
ERT	Environmental Sciences Review Committee
ESE	Environmental Sciences and Engineering
ESEB	Environmental Sciences and Engineering B
EXP	Experimental Psychology
GEN	Genetics
GM	General Medicine
GMA	General Medicine A
GMB	General Medicine B
GMP	General Medical Sciences (NIGMS)
HDP	Child Health and Human Development (DRG)
HED	Human Embryology and Development
HEM	Hematology
HEP	Heart
HEPA	Heart A (NHI)
HEPB	Heart B (NHI)
HLS	History of Life Sciences
HM	History of Life Sciences
HSR	Health Services Research (BHS)
IFRC	International Fellowships Review Committee (OIR)
IFRP	International Fellowships Review - Panel
IMB	Immunobiology
MBC	Microbial Chemistry
MBY	Molecular Biology
MCHA	Medicinal Chemistry A
MCHB	Medicinal Chemistry B
MET	Metabolism
MNHA	Mental Health A
MNHB	Mental Health B
MT	Manpower and Training Committee (NLM)
NBP	Neurology and Blindness
NBPA	Neurology and Blindness A (NINDB)
NBPB	Neurology and Blindness B (NINDB)
NEUA	Neurology A
NEUB	Neurology B
NP	Neuropsychology Research Review Committee
NR	Research in Nursing in Patient Care Review Committee (DNU-BHM)
NSS	No initial review group
NTN	Nutrition
PC	Physiological Chemistry
PCR	Personality and Cognition Research Review Committee (NIMH)
PET	Pharmacology and Experimental Therapeutics
PETA	Pharmacology and Experimental Therapeutics A
PHRA	Pharmacology A

PHRB	Pharmacology B
PHY	Physiology
PME	Advisory Committee on Primate Centers (DRFR)
PMY	Psychopharmacology
PNL	Perinatal Review (NINDB)
PPR	Preclinical Psychopharmacology Research Review Committee (NIMH)
PR	Primate Research
PTHA	Pathology A
PTHB	Pathology B
PTR	Pharmacology--Toxicology Review Committee (NIGMS)
RAD	Radiation
REB	Reproductive Biology
SGYA	Surgery A
SGYB	Surgery B
SRC	Special Review (Institute Review)
SSR	Social Sciences Research Review Committee (NIMH)
SSS	Special Study Section
TMP	Tropical Medicine and Parasitology
TOX	Toxicology
VIS	Visual Sciences
VR	Virology and Rickettsiology

TABLE 1-RESEARCH GRANTS BY SUPPORTING INSTITUTE OR DIVISION
(Exclusive of grants for scientific evaluation purposes)

Supporting institute or division	Number	Dollars
Grand total	13,123	626,418,028
Total Bureau of Health Manpower ^{1/}	109	4,200,119
Dental Health (DH)	42	1,258,999
Nursing (DN)	60	2,550,891
Physician Manpower (PM)	7	390,229
Total National Institutes of Health	12,949	620,595,363
Allergy and Infectious Diseases (AI)	1,411	48,968,691
Arthritis and Metabolic Diseases (AM)	2,503	85,513,754
Cancer (CA)	1,335	71,598,787
Child Health and Human Development (HD)	1,056	38,052,584
Dental Research (DE)	339	14,296,199
Environmental Health Sciences (EH)	100	7,949,283
Fogarty International Center (TW)	98	2,472,989
General Medical Sciences (GM)	1,577	74,057,970
Heart (HE)	2,124	94,911,579
Neurological Diseases and Blindness (NB)	1,771	65,659,466
Research Facilities and Resources (FR)	635	117,114,061
Total National Library of Medicine ^{1/} (LM)	65	1,622,546

^{1/} Since the Bureau of Health Manpower and the National Library of Medicine did not become part of NIH until April 1, 1968, data for their programs are shown separately.

TABLE 2—RESEARCH GRANTS, BY AREA, INSTITUTION, AND PRINCIPAL INVESTIGATOR

INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRC	DOLLARS
ALABAMA				
AUBURN				
AUBURN UNIVERSITY				
BERGER, ROBERT S	SEX PHEROMONES OF TICKS	RO1AI 07742-02	TMP	24,611
CARTER, MASON C	STUDIES OF THE PHYTOXICITY OF 3-AMINO-1,2,4-TRIAZOLE	RO1ES 00189-06	TOX	17,565
GREENE, J E	THE ANATOMY AND HISTOLOGY OF COUTURNIX	RO1GM 12570-03S1	PTHA	10,560
GROTH, AARON H, JR	RELATIONSHIP OF SPIROCERCA LUPI TO ESOPHAGEAL SARCOMA	RO1CA 06164-06S1	TMP	5,304
HAYS, KIRBY L	NATURAL REGULATION OF POPULATIONS OF TABANIDAE	RO1AI 08279-01	TMP	15,382
MELIUS, PAUL	ROLE OF MAGNESIUM ON LEUCINE AMINOPEPTIDASE ACTION	RO1AM 11776-01	BIO	11,515
PARKS, PAUL F	NUTRITIONAL MEDIATION OF CARCINOGENESIS	RO1CA 01018-20	PTHB	35,946
PARKS, PAUL F	VASCULAR LESIONS OF CHOLINE-METHIONINE DEFICIENCY	RO1HE 02615-12	PTHB	26,200
SMITH, ROBERT C	RELATION OF CHOLINE TO NUCLEIC ACID METABOLISM	RO1CA 02771-12	NTN	18,073
INSTITUTION TOTAL	9	165,156		
BIRMINGHAM				
ALABAMA UNIVERSITY OF, IN BIRMINGHAM				
ALFORD, CHARLES A	STUDIES ON THE MECHANISMS OF INFECTIOUS TERATOGENESIS	RO1HD 01687-03	VR	23,876
BAKER, HENRY J	SEROLOGICAL DETECTION OF LATENT BARTONELLOSIS	RO1FR 00482-01	AR	10,379
BARKER, SAMUEL B	TARGET ORGAN EFFECTS OF THYROID HORMONES	RO1AM 10436-03	END	54,742
BAUGH, CHARLES M	THE BIOSYNTHESIS OF RIBOFLAVIN	RO1AM 11333-02	PC	27,848
BENNETT, J CLAUDE	EXPERIMENTAL CLINICAL INVESTIGATION PROGRAM IN R A	RO1AM 12038-02	SSS	123,343
BENNETT, J CLAUDE	STUDIES ON GAMMA-GLOBULIN STRUCTURE	RO1GM 12456-02S2	PC	47
BENTLEY, HERSCHEL P, JR	RED CELL CHANGES AND NEWBORN HYPERBILIRUBINEMIA	RO1HD 02298-05	HEM	12,985
BOSHELL, BURIS R	TREATMENT AND DIABETIC COMPLICATIONS	RO1AM 06744-06	SSS	59,630
BUTTERWORTH, C, JR	HUMAN BIOTIN METABOLISM AND LIVER DISEASE	RO1AM 11995-01	NTN	24,496
BUTTERWORTH, JR, C E	FOLIC ACID METABOLISM IN MEGALOBlastic ANEMIA	RO1AM 08644-05	HEM	39,711
CALDWELL, ROBERT C	INSTITUTE OF DENTAL RESEARCH	P13DE 02670-02	NSS	922,448
CAREY, JOSHUA H	MORPHOLOGY OF THE FOREBRAIN	RO1NB 07649-01	NEUA	15,058
CASSADY, GEORGE E	BODY COMPOSITION IN INTRAUTERINE GROWTH RETARDATION	RO1HD 02697-02	HED	9,791
CLARK, LELAND C, JR	SURGICAL CARDIOVASCULAR PROBLEMS	RO1HE 03109-12	SGYA	22,627
COOPER, MAX D	STUDIES ON ONTOGENY OF THE IMMUNE SYSTEM	RO1AI 08345-01	IMB	42,302
DAGG, CHARLES P	GENETIC AND ENVIRONMENTAL INFLUENCES ON DEVELOPMENT	RO1HD 03446-01	HED	27,479
DEMPESEY, HUGH J	RELATIONSHIP OF VITAMIN B 12 AND FOLATE COMPOUNDS	RO1AM 09597-03	HEM	11,280
DODGE, HAROLD T	WASTED CARDIAC WORK CARDIAC DYSSYNERGY	RO1HE 05080-09	CVB	27,600
EDWARDS, W STERLING	VASCULAR PROSTHETICS	RO1HE 01987-14	SGYA	22,959
ELLIOTT, HOWARD C	RENAL BIOCHEMICAL EFFECTS OF BENZOATE CONGENERS	RO1AM 07283-05	PHRA	25,344
EVANS, E EDWARD	PHYLOGENETIC STUDY OF THE IMMUNE RESPONSE	RO1AI 02693-10	IMB	34,560
FEARY, THOMAS W	RNA VIRUS - HOST CELL INTERACTIONS	RO1AI 06739-03S1	VR	7,603
FINLEY, WAYNE H	CYTOGENETIC STUDIES IN CONGENITAL DISEASES	RO1HD 00577-05S1	GEN	3,600
FISCHER, THEODORE E	STUDIES OF THE PHYSICAL PROPERTIES OF DENTAL CEMENTS	RO1DE 01657-07	DEN	36,264
FRITZ, PAUL J	METABOLIC CONTROL OF LACTATE DEHYDROGENASE ISOZYMES	RO1AM 11211-01S1	BIO	3,240
FRITZ, PAUL J	MOLECULAR BASIS FOR ACTION OF CARDIAC GLYCOSIDES	RO1HE 10746-02	PHRA	32,854
GALBRAITH, JAMES G	RESEARCH UNIT FOR CEREBROVASCULAR DISEASES	PO2HE 10618-02	HEPB	186,437
GALBRAITH, JAMES G	EXTRACRANIAL ARTERIAL OCCLUSION - JOINT STUDY	RO1HE 04943-09	SRC	28,838
GOOLSBY, IDEL W, III	CYTOLOGIC STUDIES OF B12 AND FOLIC DEFICIENCY IN RATS	RO1DE 02495-02	DEN	16,696
HALL, LEO M	METABOLIC INTERRELATIONSHIPS IN MUSCLE TISSUE	RO1HE 11135-02	MET	36,827
HAMEL, EARL G, JR	THE COMPARATIVE ANATOMY OF THE FOREBRAIN	RO1NB 05250-05	NEUA	11,998
HAMMACK, WILLIAM J	COOPERATIVE EVALUATION OF MYLERAN AND CB-1348 IN CANCER	RO1CA 03013-12	SRC	15,761
HERSHMAN, JEROME M	CONTROL OF THYROTROPIN SECRETION IN MAN	RO1AM 12044-01	END	3,750
HERSHMAN, JEROME M	EFFECT OF RADIATION ON THYROID PROTEIN BIOSYNTHESIS	RO1AM 12366-01	END	7,050
HILL, S RICHARDSON	GENERAL RESEARCH SUPPORT GRANT	SO1FR 05349-07	NSS	216,608
HILL, S RICHARDSON, JR	GENERAL CLINICAL RESEARCH CENTER	MO1FR 00032-08	CLR	458,054
HIRAMOTO, RAYMOND N	ROLE OF CIRCULATING BLOOD CELLS IN ANTIBODY RESPONSE	RO1AI 07985-01S1	ALY	7,257
HIRSCHOWITZ, BASIL I	VAGAL CONTROL OF GASTRIC SECRETION	RO1AM 09260-04	GMA	68,039
HOFFMAN, HENRY H	ANATOMY AND PHYSIOLOGY OF VISCERAL AFFERENT NEURONS	RO1NB 01804-09	NEUA	19,429
HOLLEY HOWARD L	COORDINATED STUDY IN RHEUMATIC DISEASES	PO1AM 03555-09	AMP	84,273
HORTON, RICHARD	METABOLISM OF TESTOSTERONE AND ANDROSTANEDIONE	RO1AM 12400-01	END	27,456
HUMPHREY, TRYPHENA	PHYSIOLOGIC AND MORPHOLOGIC STUDIES ON HUMAN FETUSES	RO1HD 00230-05S1	NEUA	2,436
HUMPHREY, TRYPHENA	MORPHOLOGIC AND FUNCTIONAL NERVOUS SYSTEM DEVELOPMENT	RO1HD 00230-06A1	NEUA	27,206
KELLER, STANLEY E	IN VIVO STUDIES OF THE INTERPROXIMAL AREA	RO1DH 00091-03	DEN	14,784
KENT, SIDNEY P	FLUORESCENT ANTIBODY DEMONSTRATION OF TISSUE MUCINS	RO1AI 03188-09	PTHB	25,494
KOCHAKIAN, CHARLES D	MECHANISMS OF ANDROGEN ACTION	RO1AM 11060-12	END	62,962
KOULOURIDES, THEODORE I	STUDIES OF ENAMEL REMINERALIZATION	RO1DE 02537-02	DEN	20,560
KOULOURIDES, THEODORE I	STUDIES OF EXPERIMENTAL CARIES IN THE HUMAN MOUTH	RO1DE 02712-01	DEN	23,473
KREISBERG, ROBERT A	KETONEGENESIS AND GLUCONEOGENESIS IN THE PERFUSED LIVER	RO1AM 09722-03	MET	17,633
LEGLER, DONALD W	THE PHYLOGENETIC DEVELOPMENT OF COMPLEMENT	RO1AI 08068-01	ALY	13,889
LUKETIC, GORAZD C	COLCHICINE EFFECTS ON INTESTINAL MUCOSA	RO1AM 09894-03	GM	17,880
LUPTON, CHARLES H, JR	APPLICATION OF ELECTRON MICROSCOPY TO RENAL ANATOMY	RO1HE 01725-14	PTHA	38,040
MANN, WALLACE V, JR	METABOLIC EFFECT OF OVARIECTOMY ON PERIODONTAL TISSUES	RO1DE 02572-02	DEN	9,025
MC CALLUM, CHARLES A	GENERAL RESEARCH SUPPORT GRANT	SO1FR 05300-07	NSS	103,932
MC CANN, WILLIAM P	RENAL METABOLISM AND RENAL FUNCTION	RO1AM 07933-06	PHY	26,420
MC KIBBIN, JOHN M	THE DISTRIBUTION OF GLYCOLIPIDS IN ANIMAL TISSUES	RO1HD 02184-02	PC	15,588
MONTES, LEOPOLDO F	FINE STRUCTURE AND CYTOCHEMISTRY OF CANDIDIASIS	RO1AI 07635-02	BM	19,179

TABLE 2—RESEARCH GRANTS, BY AREA, INSTITUTION, AND PRINCIPAL INVESTIGATOR

INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRG	DOLLARS
ALABAMA—(CON.)				
MONTES, LEOPOLDO F	ULTRASTRUCTURE AND CYTOCHEMISTRY OF DERMATOPHYTOSIS	RO1AI 08204-01	BM	23,117
MOODY, FRANK G	MECHANISM OF GASTRIC ACID SECRETION	RO1AM 11954-01	GMA	59,811
MORGAN, ROBERT E	PYRIMIDINE BIOSYNTHESIS IN GINGIVAL TISSUES	RO1DE 02733-01	DEN	27,395
MOWRY, ROBERT W	CARBOHYDRATES IN NORMAL AND PATHOLOGIC TISSUES	RO1AM 00937-13	PTHB	16,992
MUNDY, ROY L	TOXICOLOGICAL APPLICATIONS OF ION-EXCHANGE	RO1GM 15468-01	TOX	33,335
NORMAN, JOE R	ABNORMALITIES IN RHEUMATOID SPONDYLITIS	RO1AM 07336-05	CVB	8,913
PITTMAN, CONSTANCE S	ACTION AND METABOLISM OF THYROID HORMONES	RO1AM 08181-05	END	50,074
PRUITT, KENNETH M	INTERFACIAL REACTIONS OF INSULIN	RO1AM 10863-02	END	15,384
REEVES, THOMAS J	MYOCARDIAL AND CIRCULATORY DYNAMICS	PO1HE 11310-01S1	HEPB	14,007
SACHS, GEORGE	KINETIC CHARACTERISTICS OF GASTRIC MUCOSAL ION FLUX	RO1AM 08541-05	PHY	22,109
SCHNEYER LEON H	STUDY OF SALIVARY GLAND STRUCTURE AND FUNCTION	PO1DE 02110-04	DEP	258,216
SCHNITZLEIN, H N	THE COMPARATIVE ANATOMY OF THE FOREBRAIN	RO1NB 04295-06	NEUA	22,822
SCHROENLOHER, RALPH E	STRUCTURE & FUNCTION RELATION OF GAMMA M IMMUNOGLOBULINS	RO1AM 10441-03	ALY	18,612
SCOTT, BRONNETTA L	ELECTRON MICROSCOPY OF BONE GROWTH AND DEVELOPMENT	RO1DE 02799-01	DEN	77,713
SHIOTA, TETSUO	BIOSYNTHESIS OF PTERIDINES AND FOLATE-LIKE COMPOUNDS	RO1CA 10399-01	MBC	63,751
STROUD, ROBERT M	BIOLOGY OF COMPLEMENT COMPONENTS IN HYPERSENSITIVITY	RO1AI 08422-01	ALY	27,908
VOLKER, J F	USES OF ELECTRONIC COMPUTERS IN HEALTH RESEARCH	PO7FR 00145-05	COM	199,353
WELLER, EDWIN M	ORIGIN AND PATTERN OF EMBRYONIC SERUM PROTEINS	RO1HD 02775-01S1	HED	3,476
WELLER, EDWIN M	IMMUNO-CHEMICAL PROPERTIES OF EMBRYONIC PROTEINS	RO1HD 02775-02A1	HED	24,746
WUEHRMANN, ARTHUR H	SPECIFIC AREA OSSEOUS EFFECTS USING X-RADIATION	RO1DE 02036-05	DEN	35,419
YIELDING, K LEMONE	REGULATION OF ENZYME STRUCTURE AND FUNCTION	RO1AM 08274-05	BIO	28,923
YIELDING, K LEMONE	NON-HOST NUCLEIC ACIDS IN RHEUMATIC DISEASES	RO1AM 12347-01	GMA	17,780
INSTITUTION TOTAL	79	4,298,896		
BIRMINGHAM-SOUTHERN COLLEGE				
BAILEY, PAUL C	THE ROLE OF HEREDITY IN A MOUSE LEUKEMIA	RO1CA 08253-03S1	GEN	7,640
BAILEY, PAUL C	THE ROLE OF HEREDITY IN A MOUSE LEUKEMIA	RO1CA 08253-04	GEN	19,097
INSTITUTION TOTAL	2	26,737		
TUSKEGEE INST				
TUSKEGEE INSTITUTE				
ADAMS, EUGENE W	STUDIES ON VENEREAL TUMOR	RO1CA 08187-04	PTHB	38,815
BOWIE, WALTER C	MOVEMENT OF THE MITRAL VALVE	RO1HE 08258-05	CVB	58,481
BROWN, RUSSELL W	PESTICIDES IN MAMMALIAN CELL SYSTEMS	RO1ES 00323-03	TOX	21,754
CHUNG, RONALD A	CHOLESTEROL AND LIPID METABOLISM	RO1AM 08364-04	NTN	19,456
DURDLE, WAYNE M	VITAMIN A STUDIES AND GENETIC IMPLICATIONS	RO1AM 09874-03	NTN	17,501
SETTLER, SHERIDAN H, JR	PHOTOCOAGULATION OF THE CILIARY BODY	RO1NB 06422-02	VIS	4,733
WATSON, BERNARD B	MECHANISMS OF PATHOGENICITY AND IMMUNITY IN LISTERIOSIS	RO1AI 04025-07	BM	34,813
WILLIAMS, T S	GENERAL RESEARCH SUPPORT GRANT	SO1FR 05572-01	NSS	39,611
INSTITUTION TOTAL	8	235,164		
UNIVERSITY				
ALABAMA UNIVERSITY OF				
BAUMEISTER, ALFRED A	STIMULUS SELECTION AND UTILIZATION BY RETARDATES	RO1HD 02588-02S1	EXP	3,800
BAUMEISTER, ALFRED A	STIMULUS FACTORS IN VERBAL LEARNING OF RETARDATES	RO1HD 02588-03	EXP	24,814
INSTITUTION TOTAL	2	28,614		
STATE TOTAL	100	4,754,567		
ALASKA				
COLLEGE				
ALASKA UNIVERSITY OF				
IRVING, LAURENCE	RESEARCH IN ZOOLOGY IN ALASKA	PO1GM 10402-06	GMP	360,616
PEYTON, HAROLD R	SOIL, HEAT TRANSFER, PERMAFROST AND PENETRATION	RO1ES 00101-04	SSS	19,105
RAE, K M	BIOMEDICAL SCIENCES SUPPORT	SO5FR 07001-02	NSS	54,738
INSTITUTION TOTAL	3	434,459		
STATE TOTAL	3	434,459		
ARIZONA				
PHOENIX				
GOOD SAMARITAN HOSPITAL				
BENCHIMOL, ALBERTO	CARDIAC PHYSIOLOGY IN NORMAL AND FAILING HUMAN HEART	RO1HE 11131-01S1	CVA	8,131
INSTITUTION TOTAL	1	8,131		
ST. JOSEPH'S HOSPITAL				
EIDELBERG, EDUARDO	NEUROLOGICAL MECHANISMS OF CORTICAL SENSORY DEFICIT	RO1NB 05715-04	NEUA	27,707
WAGGENER, JOHN D	ELECTRON MICROSCOPIC STUDIES IN NEUROPATHOLOGY	RO1NB 03678-07	PTHA	31,145
INSTITUTION TOTAL	2	58,852		
TEMPE				
ARIZONA STATE UNIVERSITY				
ARONSON, JEROME M	CELL WALL STRUCTURE OF THE FUNGUS, SAPROMYCES	RO1GM 15165-02	MBY	15,421
BURKE, W J	BIOMEDICAL SCIENCES SUPPORT GRANT	SO5FR 07112-01	NSS	40,641

TABLE 2—RESEARCH GRANTS, BY AREA, INSTITUTION, AND PRINCIPAL INVESTIGATOR

INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRG	DOLLARS
ARIZONA—(CON.)				
MUNK, MORTON E	CHEMISTRY OF THE ANTIBIOTIC ACTINOBOLIN	R01AI 04720-06	MCHA	17,750
PETTIT, GEORGE R	BUFADIENOLIDES	R01CA 10115-02	MCHA	32,353
PETTIT, GEORGE R	ARTHROPOD ANTINEOPLASTIC AGENTS	R01CA 10612-01	MCHA	52,280
RASMUSSEN, DAVID I	GENETIC POLYMORPHISM IN PEROMYSCUS	R01GM 12190-05	GEN	16,674
SCHMIDT, JEAN M	CONJUGATION AND STALK DEVELOPMENT IN CAULOBACTER	R01GM 15278-02	BM	11,302
TAYLOR, EUGENE M	CONDITIONAL CARDIOVASCULAR RESPONSES	R01HE 10574-03	EXP	16,642
INSTITUTION TOTAL	8 203,063			
TUCSON				
ARIZONA UNIVERSITY OF				
ADAMS, GEORGE H	STRUCTURE AND FUNCTION OF CIRCULATING LIPOPROTEINS	R01HE 12122-01	BBCB	47,533
ANDERSON, ROBERT M	THE PERIPHERAL VASCULAR CONTROL OF CARDIAC OUTPUT	R01HE 11719-01	CVB	22,014
ANGEVINE, JAY B. JR	HISTOGENESIS OF MAMMALIAN FOREBRAIN	R01NB 07679-01	NEUA	11,753
COULTER, PEARL P	CLIMATE OF SCIENTIFIC INQUIRY FOR FACULTY DEVELOPMENT	R02NU 00139-04	NR	25,047
DEUTSCHMAN, ARCHIE J. JR	METHYL STERCULATE SYNTHESIS AND BIOLOGICAL ACTIVITY	R01ES 00262-05	MET	19,445
FORSTER, LESLIE S	ELECTRONIC PROPERTIES OF COMPLEX MOLECULES	R01GM 13218-03	BBCA	18,000
HANAHAN, DONALD J	LIPID ENZYMES	R01HE 11552-01	PC	182,486
JOHNSON, PAUL C	INTESTINAL CAPILLARY FILTRATION AND PERMEABILITY	R01AM 12065-01	PHY	11,856
JOHNSON, PAUL C	CAPILLARY FUNCTION IN THE INTESTINE	R01AM 12065-02	PHY	67,173
MATHEWS, CHRISTOPHER K	ENZYMOLGY OF NORMAL AND VIRUS-INFECTED BACTERIA	R01AI 08230-01	BIO	26,021
PATRICK, DAVID L	BIOMEDICAL SCIENCES SUPPORT	S05FR 07002-03	NSS	55,948
REED, RAYMOND E	A STUDY OF COCCIDIOIDOMYCOSIS IN ANIMALS	R01AI 00682-14	BM	36,627
RUND, JOHN V	KINETIC INFLUENCES IN COORDINATION COMPOUNDS	R01GM 11989-05	BIO	17,928
STEELE, CORNELIUS	BIOCHEMISTRY OF CALLUS FORMATION IN THE GIANT CACTUS	R01GM 12288-03	PC	12,321
STUART, DOUGLAS G	NEURAL ASPECTS OF POSTURE AND LOCOMOTION	R01NB 07888-01	NEUB	70,583
WARE, GEORGE W. JR	EFFECTS OF X-IRRADIATION ON INSECTICIDE TOXICITY	R01ES 00238-02	TOX	11,208
WILSKA, ALVAR P	LOW-VOLTAGE ELECTRON MICROSCOPY	R01GM 11852-05	SSS	49,621
WYCKOFF, RALPH W	BIOPHYSICAL METHODS APPLIED TO TEETH	R01DE 01919-05	BBCA	34,457
INSTITUTION TOTAL	18 720,021			
SOUTHWESTERN CLINIC AND RESEARCH INSTITUTE				
FOSDICK, WILLIAM M	EXPERIMENTAL CLINICAL INVESTIGATION PROGRAM IN R A	R01AM 12029-02	SSS	24,670
INSTITUTION TOTAL	1 24,670			
STATE TOTAL	30 1,014,737			
ARKANSAS				
ARKADELPHIA				
OUACHITA BAPTIST UNIVERSITY				
EVERETT, WILBUR W	BPA-CU II REACTION KINETICS AND PRODUCT PROPERTIES	R01AI 06929-03	BBCB	13,811
INSTITUTION TOTAL	1 13,811			
FAYETTEVILLE				
ARKANSAS UNIVERSITY OF				
HARVEY, AUBREY E	BIOMEDICAL SCIENCES SUPPORT	S05FR 07101-02	NSS	36,468
MEYER, WALTER L	SYNTHESES IN THE DITERPENE ALKALOID FIELD	R01AM 10123-03	MCHA	28,639
SACKS, JACOB	THE FUNCTION OF PHOSPHOANSERINE IN MUSCLE	R01AM 12537-01	MET	10,740
THOMA, JOHN A	CATALYTIC CENTERS OF ALPHA AND BETA AMYLASE	R01AM 11666-04	BIO	22,223
INSTITUTION TOTAL	4 98,070			
JONESBORO				
ARKANSAS STATE UNIVERSITY				
JOHNSON, BOB D	VENOM CELLULAR SITES OF ACTION	R01ES 00275-01	TOX	20,659
INSTITUTION TOTAL	1 20,659			
LITTLE ROCK				
ARKANSAS UNIVERSITY OF				
BORNHOFEN, JOHN H	PERINATAL STRESS AND PREMATURITY	R01HD 01420-03	HED	27,827
BRADLEY, C ALLEN	PHARMACOLOGY OF SELECTED ADAMANTYL COMPOUNDS	R01NB 06759-02	PHRA	6,065
BULLOCH, ROBERT T	FINE STRUCTURE AND HISTOCHEMISTRY OF THE MYOCARDIUM	R01HE 11947-01	CVA	12,779
CALDWELL, FRED T	ENERGY METABOLISM FOLLOWING TRAUMA	R01AM 11998-01	SGYA	48,196
CAMPBELL, GILBERT S	EXTERNAL COUNTERPRESSURE AFTER ACUTE HEMORRHAGE	R01HE 10360-03	SGYA	10,635
DE LUCA, DONALD C	MECHANISM OF FLAVOENZYME CATALYZED OXIDATIONS	R01AM 11920-01	BIO	20,839
GILMORE, SHIRLEY A	RADIATION INDUCED CHANGES IN NEONATAL NERVOUS SYSTEM	R01NB 04761-05	RAD	22,695
HANNA, CALVIN	BIOCHEMICAL STUDIES IN LENS CATARACT FORMATION	R01NB 04024-08	VIS	11,002
HANNA, CALVIN	CELL MIGRATION IN THE EYE	R01NB 05076-05	VIS	24,824
HAUT, ARTHUR	ERYTHROCYTIC NON-HEMOGLOBIN PROTEINS	R01HE 08341-05	HEM	40,780
HAUT, ARTHUR	SOUTHWEST CANCER CHEMOTHERAPY STUDY	R10CA 03400-10S1	SRC	672
HAUT, ARTHUR	SOUTHWEST CANCER CHEMOTHERAPY STUDY	R10CA 03400-11	SRC	71,862
HUGHES, EDWIN R	MANGANESE METABOLISM AND ADRENOCORTICAL HORMONES	R01NB 07638-02	END	35,648
JAQUES, WILLIAM E	PATHOPHYSIOLOGY OF LESSER CIRCULATION	R01HE 10928-03	CVB	13,348
JONES, ROBIN R	METABOLIC EFFECTS OF VITAMIN DEFICIENCY	R01AM 03294-08	NTN	17,046
JUNIPER, KERRISON, JR	ANTICHOLINERGIC DRUG EFFECT ON GLANDULAR DECRETIONS	R01AM 08194-03S1	PHRA	1,681
JUNIPER, KERRISON, JR	THE MICELLAR COMPLEX OF BILE, AND GALLSTONE FORMATION	R01AM 09338-03	BBCB	20,314

TABLE 2—RESEARCH GRANTS, BY AREA, INSTITUTION, AND PRINCIPAL INVESTIGATOR

INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRG	DOLLARS
ARKANSAS—(CON.)				
KNIKER, WILLIAM T	PATHOGENIC MECHANISMS IN CHRONIC NEPHRITIS	RO1AM 10895-02	PTHA	24,987
KOIKE, THOMAS I	REGULATION OF SOLUTE AND WATER EXCRETION	RO1AM 10393-03	PHY	8,641
MORRIS, MANFORD D	SPONTANEOUS HYPERCHOLESTEROLEMIA	RO1HE 11811-01	MET	29,693
MORRIS, MANFORD D	VITAMIN E DEFICIENCY AND CHOLESTEROL BIOSYNTHESIS	RO1NB 07591-01	NTN	21,869
POWELL, ERVIN W	NEUROANATOMICAL ORGANIZATION OF THE SEPTUM	RO1NB 06951-03	NEUA	31,541
SANDBERG, RUSSELL L	ANALYSIS OF ACTIVE ELEMENTS IN VASCULAR TISSUES	RO1HE 09645-03	PHY	13,817
SEAGER, LLOYD D	CARDIOVASCULAR RESPONSES FROM THE PREOPTIC AREA	RO1HE 09963-03	PHRA	25,472
SHERMAN, JEROME K	FACTORS AFFECTING FREEZE-THAW SURVIVAL OF CELLS	RO1GM 06418-10	PTHB	25,613
SHOREY, WINSTON K	GENERAL CLINICAL RESEARCH CENTER	MO1FR 00049-07	CLR	323,441
SHOREY, WINSTON K	UAMC RESEARCH COMPUTATION LABORATORY	P07FR 00208-04	COM	150,576
SHOREY, WINSTON K	GENERAL RESEARCH SUPPORT GRANT	SO1FR 05350-07	NSS	166,953
SMITH, EDGAR D	GAS-LIQUID CHROMATOGRAPHY OF AMINO ACID DERIVATIVES	RO1GM 09776-06	BIO	20,665
SMITH, WILLIAM G	CHEMICAL MORPHOLOGY OF MUREIN SACCULUS GROWTH	RO1AI 08178-01	MBC	34,708
SMITH, WILLIAM G	MANGANESE AND MUCOPOLYSACCHARIDE METABOLISM	RO1AM 12011-01	GMB	30,704
SUZUKI, HOWARD K	AN ANALYSIS OF HORMONE INTERACTION IN BONE	RO1AM 02745-10	MET	23,745
WADKINS, CHARLES L	BIOLOGICAL CONTROL MECHANISMS OF CALCIFICATION	RO1AM 11528-02	GMB	35,727
WHITNEY, JOHN E	BIOSYNTHESIS OF PANCREATIC HORMONES	RO1AM 09135-03S2	BIO	3,961
WINTER, CHARLES G	ENZYMIC MECHANISM OF BRAIN NA AND K TRANSPORT	RO1NB 07508-01	NEUB	25,497
WYNN, JAMES O	THYROXINE DEGRADATION AND FUNCTION	RO1AM 12407-01	END	21,183
WYNN, JAMES O	THYROID HORMONE METABOLISM DURING STRESS	RO1AM 12408-01	END	12,642
WYNN, JAMES O	THYROID HORMONE METABOLISM	RO1AM 12452-01	END	68,591
INSTITUTION TOTAL	38	1,486,239		
STATE TOTAL	44	1,618,779		
CALIFORNIA				
BERKELEY				
CALIFORNIA STATE DEPARTMENT OF PUBLIC HEALTH				
DYAR, ROBERT	GENERAL RESEARCH SUPPORT GRANT	SO1FR 05549-06	NSS	165,595
LENNETTE, EDWIN H	IMMUNOLOGY AND EPIDEMIOLOGY OF CERTAIN VIRAL DISEASES	RO1AI 01475-11	VR	256,807
LENNETTE, EDWIN H	ELECTRON MICROSCOPIC STUDIES OF SELECTED VIRAL AGENTS	RO1AI 08200-01	VR	47,222
LENNETTE, EDWIN H	ONCOGENIC PROPERTIES OF ADENOVIRUSES	RO1CA 07729-04S1	VR	76,317
LENNETTE, EDWIN H	ONCOGENIC PROPERTIES OF ADENOVIRUSES	RO1CA 07729-05	VR	212,332
LENNETTE, EDWIN H	HOST-PARASITE RELATIONSHIPS IN LEUKEMIA	RO1CA 07732-04S1	VR	46,031
LENNETTE, EDWIN H	HOST-PARASITE RELATIONSHIPS IN LEUKEMIA	RO1CA 07732-05	VR	117,829
RIGGS, JOHN L	DETECTION OF VIRAL ANTIGENS IN HUMAN TUMOR CELLS	RO1CA 08286-03S1	VR	3,268
INSTITUTION TOTAL	8	925,401		
CALIFORNIA UNIVERSITY OF AT BERKELEY				
AMES, BRUCE N	REGULATION OF GENE FUNCTION AND PROTEIN SYNTHESIS	RO1AM 12092-01	BIO	121,880
ARNON, DANIEL I	PHOTOSYNTHESIS BY ISOLATED CHLOROPLASTS	RO1GM 04314-14	PC	56,113
BALLOU, CLINTON E	STUDIES ON SUGAR PHOSPHATES AND PHOSPHOLIPIDS	RO1AM 00884-13	PC	57,862
BALLOU, CLINTON E	RESEARCH IN BIOCHEMISTRY	RO1AM 08845-04	PC	45,345
BALLOU, CLINTON E	BIOCHEMICAL RESEARCH	RO1AM 10109-03	PC	9,640
BALLOU, CLINTON E	LIPIDS AND ACTIVE TRANSPORT OF AMINO ACIDS	RO1AM 12121-01	PC	20,264
BARKER, HORACE A	INTERMEDIARY METABOLISM OF BACTERIA	RO1AI 00563-21	PC	97,210
BARLOW, HORACE B	PROBLEMS IN VISUAL PHYSIOLOGY	RO1NB 05215-05	VIS	78,990
BERN, HOWARD A	FUNCTION OF THE INTERRENAL GLAND IN TELEOST FISHES	RO1AM 07896-05	END	33,530
BRIGGS, GEORGE M	PROGRAM PROJECT FOR STUDIES IN HUMAN NUTRITION	P02AM 10202-03	AMP	77,791
BROWN, WILLIAM D	COMPARATIVE BIOCHEMISTRY OF MYOGLOBINS	RO1NB 07106-02	BBCB	39,873
CAMERON, DONALD R	CYTOGENETIC STUDIES OF HERITABLE TUMORS IN NICOTIANA	RO1CA 08414-03	GEN	11,748
CARPENTER, FREDERICK H	STRUCTURE AND ACTIVITY OF INSULIN	RO1AM 00608-15	BIO	37,611
CASIDA, JOHN E	MODE OF ACTION AND METABOLISM OF ORGANIC TOXICANTS	RO1ES 00049-04	TOX	59,063
CASIDA, JOHN E	METABOLISM AND SELECTIVITY OF ORGANOPHOSPHATES	RO1GM 12248-05	TOX	56,900
CHAMBERLIN, MICHAEL J	STUDIES OF THE ENZYMIC SYNTHESIS OF NUCLEIC ACIDS	RO1GM 12010-05	PC	41,418
CLARK, ALVIN J	STUDIES ON THE PHYSIOLOGY OF BACTERIAL CONJUGATION	RO1AI 05371-06	GEN	81,826
COLE, R DAVID	HISTONE BIOCHEMISTRY AND THE INFLUENCE OF HORMONES	RO1AM 12618-01	PC	44,510
COLE, ROGER D	DISTORTION OF DISULFIDE BRIDGES IN ENZYMES	RO1AM 06482-06	PC	13,890
CROSSMAN, EDWARD R	COMPUTER-CONTROLLED OPHTHALMIC REFRACTION	RO1NB 07580-01	VIS	34,343
DAUBEN, WILLIAM G	ULTRAVIOLET IRRADIATION OF NATURAL PRODUCTS	RO1AM 00709-16	MCHB	57,442
DAUBEN, WILLIAM G	THE CHEMISTRY OF ABNORMAL STEROIDS	RO1CA 04284-09	MCHB	33,315
DE OME, K B	BIOLOGY OF MAMMARY NEOPLASIA	PO1CA 05388-09	CAP	498,043
DIAMOND, MARIAN C	MORPHOLOGY OF BRAIN AFTER EARLY HYPOPHYSECTOMY	RO1NB 06293-03	NEUA	28,826
DOUBDROFF, MICHAEL	STUDIES ON BACTERIAL METABOLISM	RO1AI 01808-11	MBC	159,302
EAKIN, RICHARD M	STUDIES IN FINE STRUCTURE	RO1GM 10292-06	CBY	71,691
EICHORN, DOROTHY H	INTERGENERATIONAL STUDIES OF DEVELOPMENT AND AGING	RO1HD 03617-01	DBR	119,491
ELBERG, SANFORD S	IMMUNITY TO BRUCELLA INFECTION	RO1AI 00022-21	BM	82,047
ELBERG, SANFORD S	STUDIES OF CELLULAR RESISTANCE	RO1AI 01372-12	ALY	41,399
EVERHART, THOMAS E	TRANSMISSION SCANNING ELECTRON MICROSCOPE	RO1GM 13756-03	SSS	73,008
EVERHART, THOMAS E	NON CONVENTIONAL ELECTRON MICROSCOPY	RO1GM 15536-01	SSS	57,954
FATT, IRVING	DIFFUSIONAL TRANSPORT IN BLOOD AND TISSUE	RO1HE 06796-07	CVB	35,055
FORTE, JOHN G	MECHANISM OF H AND CL TRANSPORT BY GASTRIC MUCOSA	RO1AM 10141-03	PHY	36,529
GERHART, JOHN C	STUDIES OF CELLULAR REGULATORY MECHANISMS	RO1CA 07410-05	MBC	25,280

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INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRG	DOLLARS
CALIFORNIA—(CON.)				
GLAESER, ROBERT M	MACROMOLECULAR ORGANIZATION OF CELL MEMBRANES	RO1GM 15129-02	CBY	15,176
GLASER, DONALD A	GENETIC CONTROL OF CELL PHYSIOLOGY AND STRUCTURE	PO1GM 12524-04	GMP	186,466
GLASER, DONALD A	SCANNER-COMPUTER INVESTIGATIONS OF BIOLOGICAL SYSTEMS	PO1GM 13244-03S1	GMP	160,028
GLASER, DONALD A	SCANNER-COMPUTER INVESTIGATIONS OF BIOLOGICAL SYSTEMS	PO1GM 13244-04	GMP	247,124
HAFTER, ERVIN R	PSYCHOPHYSIOLOGICAL STUDIES OF BINAURAL INTERACTION	RO1NB 07787-01	EXP	58,774
HARDYCK, CURTIS D	THE PROCESS OF LEARNING TO READ—THEORY AND EXPERIMENTS	RO1HD 01720-02S1	PCR	1,432
HARDYCK, CURTIS D	THE PROCESS OF LEARNING TO READ—THEORY AND EXPERIMENT	RO1HD 01720-03	EXP	35,846
HARRIS, MORGAN	STUDIES IN SOMATIC CELL GENETICS	RO1GM 13692-03	GEN	43,519
HASSID, WILLIAM Z	CARBOHYDRATE METABOLISM IN PLANTS	RO1AM 01418-12	PC	55,328
HEARST, JOHN E	PHYSICAL CHEMISTRY OF DEOXYRIBONUCLEIC ACID	RO1GM 11180-06	BBC	46,256
HEATHCOCK, CLAYTON H	SYNTHESIS OF MACROLIDE ANTIBIOTICS	RO1AI 07765-02	MCHA	30,507
HEATHCOCK, CLAYTON H	STUDIES IN SYNTHETIC ORGANIC CHEMISTRY	RO1GM 15302-01	MCHA	25,142
HEGEMAN, GEORGE D	THE EVOLUTION OF BACTERIAL ENZYME SYSTEMS	RO1HD 02448-02	MBC	25,711
HUENEMANN, RUTH L	EFFECT OF FEEDING FREQUENCY ON LIPID METABOLISM	RO1AM 09076-04	NTN	45,355
HUFFAKER, CARL B	THE DYNAMICS OF ARTHROPOD POPULATIONS	RO1AI 01611-11	TMP	61,913
JENSEN, DILWORTH D	EFFECTS OF PLANT VIRUSES ON THEIR INSECT VECTORS	RO1AI 03490-08	TMP	13,647
JENSEN, FREDERICK R	DEMETALLATION OF ORGANOMETALLIC COMPOUNDS	RO1GM 15373-01	MCHB	68,522
JUKES, THOMAS H	ENZYMES AND REGULATION OF DEOXYRIBOSE METABOLISM	RO1AM 11823-01	PC	45,681
JUKES, THOMAS H	DETERMINATION OF NUCLEIC ACID SEQUENCES	RO1GM 12158-05	PC	52,954
JUKES, THOMAS H	RNA SYNTHESIS BY AZOTOBACTER VINELANDII RNA POLYMERASE	RO1GM 12326-04	PC	49,639
JUKES, THOMAS H	CHEMISTRY OF ELECTRON-TRANSFER PROTEINS	RO1HE 11553-01	PC	76,421
KIRSCH, JACK F	STUDIES IN MECHANISMS OF ENZYMIC CATALYSIS	RO1GM 12278-04	BIO	58,250
KNIGHT, C ARTHUR	CHEMISTRY OF VIRUS MUTATION	RO1AI 00634-15	GEN	67,655
KOSHLAND, DANIEL E, JR	STRUCTURE FUNCTION STUDIES ON CHYMOTRYPSIN	RO1AM 09765-03	BIO	125,737
LAWRENCE, JOHN H	ERYTHROPOIETIN AND MARROW BY POSITRON SCANNING	RO1CA 08370-03	HEM	38,603
LAWRENCE, JOHN H	ANALYTICAL AND PHYSICAL CHEMISTRY OF SERUM LIPOPROTEINS	RO1HE 01882-14	BBCB	36,697
LAWRENCE, JOHN H	LIPOPROTEIN AND CLINICAL CORRELATIONS IN HYPERLIPIDEMIAS	RO1HE 07220-07	MET	34,153
LEPKOVSKY, SAMUEL	GENESIS OF DIABETES	RO1AM 01804-11	MET	28,049
LEPKOVSKY, SAMUEL	NEUROENDOCRINE RELATIONSHIPS & NUTRITION PROCESSES	RO1NB 07585-01	GMB	19,253
LOHER, WERNER J	ENDOCRINE CONTROL OF SEXUAL BEHAVIOR	RO1HD 03619-01	EXP	30,247
LYMAN, RICHARD L	AMINO ACID DEFICIENCY AND PANCREATIC ENZYME SECRETION	RO1AM 03046-10	NTN	34,919
LYMAN, RICHARD L	CHARACTERIZATION AND ISOLATION OF LECITHINS	RO1AM 10166-03	MET	23,868
LYMAN, RICHARD L	EFFECT OF HORMONES ON TISSUE LIPID COMPOSITION	RO1HE 06480-07	MET	42,228
MANDELL, ROBERT B	MORPHOMETRY OF THE INFANT CORNEA	RO1NB 07077-02	VIS	16,230
MAZIA, DANIEL	CELL TRANSFORMATIONS, DIVISION, AND MOTION	PO1GM 13882-03	GMP	173,904
MUSSEN, PAUL H	PARENT TREATMENT, IDENTIFICATION, & MORAL DEVELOPMENT	RO1HD 01650-03	PCR	27,826
MUSSEN, PAUL H	PATTERNS OF PARENTAL AUTHORITY	RO1HD 02228-02	DBR	75,602
NASSET, EDMUND S	CANNULATION OF DIGESTIVE GLAND MICROSTRUCTURES	RO1AM 11108-02	PHY	28,847
NEILANDS, JOHN R	REACTIONS AND BIOCHEMISTRY OF A-N-HYDROXYAMINO ACIDS	RO1AI 04156-07	MCHB	17,978
NEYMAN, JERZY	STATISTICAL STUDIES OF PROBLEMS OF HEALTH	RO1GM 10525-05	SSS	151,173
NEYMAN, JERZY	MATHEMATICAL MODELS FOR HEALTH RESEARCH CANCER	R13CA 10927-01	NSS	21,750
NICHOLS, ALEXANDER V	STRUCTURE AND FUNCTION OF SERUM LIPOPROTEINS	RO1HE 10878-02	PC	16,740
NICOLL, CHARLES S	SOMATOTROPIC ACTIVITIES OF VERTEBRATE PROLACTINS	RO1AM 11161-02	END	25,414
O KONSKI, CHESTER T	ELECTRIC AND OPTICAL STUDIES OF MACROMOLECULES	RO1GM 12082-04	BBC	62,035
OLCOTT, HAROLD S	COMPARATIVE BIOCHEMICAL STUDIES OF MUSCLE PROTEINS	RO1GM 09899-06S1	BBCB	458
OLCOTT, HAROLD S	COMPARATIVE BIOCHEMICAL STUDIES OF MUSCLE PROTEINS	RO1GM 09899-07	BBCB	48,668
OLIVER, JAMES H, JR	CYTOLOGY AND GENETICS OF TICK VECTORS	RO1AI 06169-03	GEN	12,913
OSTWALD, ROSEMARIE	CHOLESTEROL INJURY IN GUINEA PIGS AND OTHER MAMMALS	RO1AM 08480-05	NTN	26,844
PACKER, LESTER	METABOLIC AND STRUCTURAL STATES OF MITOCHONDRIA	RO1AM 06438-06	MBY	42,103
PARK, RODERIC B	EXPERIMENTAL CONTROL OF MEMBRANE PROPERTIES	RO1GM 13943-03	CBS	38,256
PIPA, RUDOLPH L	NEUROMETAMORPHOSIS	RO1NB 03845-07	TMP	22,040
QUAY, WILBUR B	PHOTIC AND CIRCADIAN EFFECTS IN BRAIN REGIONS	RO1NB 06296-02	NEUB	23,421
RABINOWITZ, JESSE C	PURINE AND PTERIDINE METABOLISM IN MICROORGANISMS	RO1AM 02109-11	MBC	85,264
RAPOPORT, HENRY	POLYPYRROLES AND OTHER BIOLOGICAL PIGMENTS	RO1AI 04888-06	MCHB	43,862
REEVES, WILLIAM C	ECOLOGY AND CONTROL OF ARTHROPOD BORNE VIRUSES	RO1AI 03028-09	TMP	136,702
REEVES, WILLIAM C	GENERAL RESEARCH SUPPORT GRANT	SO1FR 05441-07	NSS	193,944
RHODES, JOHN L	STUDY OF MULTI-ENZYME SYSTEMS BY ALGEBRAIC METHODS	RO1GM 14211-02	SSS	23,816
ROSENBERG, LAWSON L	THYROID FUNCTION IN RATS AND CHICKENS	RO1AM 05645-07	END	29,173
ROTH, JOHN R	AN ANALYSIS OF THE GENES INVOLVED IN TRNA PRODUCTION	RO1AM 12115-01	GEN	37,692
RUBIN, HARRY	INTERACTIONS BETWEEN VIRUS AND CELL IN ROUS SARCOMA	RO1CA 04774-09	VR	72,744
RUBIN, HARRY	A NON-CYTOPATHIC VIRUS OF THE AVIAN LEUKOSIS GROUP	RO1CA 05619-07	VR	71,458
SAMMET, LOY L	BIOLOGICAL SCIENCES SUPPORT	SO5FR 07006-03	NSS	219,089
SATIR, PETER	STRUCTURE AND MOTION OF CILIA	RO1GM 15859-01	CBY	27,400
SCHACHMAN, HOWARD K	STRUCTURES-INTERACTIONS OF BIOLOGICAL MACROMOLECULES	RO1GM 12159-05	PC	61,772
SCHLEGEL, DAVID E	EARLY STAGES OF VIRUS INFECTIONS	RO1AI 03415-08	VR	30,010
SMITH, M BREWSTER	PERCEPTUAL SKILLS OF CHILDREN AND ADULTS	RO1HD 03185-01	EPR	32,525
SNELL, ESMOND E	NUTRITION AND METABOLISM OF MICROORGANISMS	RO1AI 01575-12	PC	52,721
SNELL, ESMOND E	CATALYTIC FUNCTIONS AND METABOLISM OF VITAMIN B6	RO1AM 01448-12	NTN	51,174
STALLONES, REUEL A	EPIDEMIOLOGIC RESEARCH ON STROKE	PO1NB 06818-02	NBPA	88,829
STANLEY, WENDELL M	VIRAL GROWTH & MUTATION CONTROL MECHANISMS OF CELLS	RO1AI 01267-12	GEN	165,039
STANLEY, WENDELL M	MECHANISM OF ANTIBODY SPECIFICITY	RO1AI 07079-03	ALY	37,342
STENT, GUNTHER S	GENETIC CONTROL OF BACTERIAL RNA & PROTEIN SYNTHESIS	RO1CA 02129-15	GEN	105,749
STERNLICHT, HIMAN	NMR STUDIES OF BIOLOGICALLY IMPORTANT MOLECULES	RO1GM 14313-02	BBCB	25,297

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INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRG	DOLLARS
CALIFORNIA—(CON.)				
STOKSTAD, E L	METABOLISM OF FOLIC ACID AND VITAMIN B12	RO1AM 08171-05	NTN	70,555
STOKSTAD, E L	NUTRITION OF A PURE-CULTURED ANNELID	RO1AM 08632-05	TMP	32,205
STOKSTAD, E L	NUTRITIONAL REQUIREMENTS OF FREE LIVING NEMATODES	RO1AM 12625-01	TMP	23,615
STOKSTAD, E L	EQUIPMENT FOR RESEARCH IN NUTRITIONAL SCIENCES	RO1AM 12738-01	NTN	56,000
STREITWIESER, ANDREW, JR	ACIDITY OF HYDROCARBONS	RO1GM 12855-04	MCHA	49,833
SYLVESTER, EDWARD S	MECHANISMS OF VIRUS TRANSMISSION BY INSECTS	RO1AI 07255-02	VR	18,451
TANADA, YOSHINORI	THE RESISTANCE OF INSECTS TO INFECTIOUS DISEASES	RO1AI 03930-08	TMP	20,187
TIMIRAS, PAOLA S	BRAIN FUNCTION IN RATS DURING ALTITUDE ACCLIMATIZATION	RO1GM 09267-07	NEUB	35,588
TINOCO, IGNACIO, JR	THE PHYSICAL STRUCTURE OF VIRUSES	RO1AI 08427-01	BBCA	96,054
TINOCO, IGNACIO, JR	OPTICAL PROPERTIES OF MOLECULES IN ELECTRIC FIELDS	RO1GM 10840-10	BBC	68,802
VALENTINE, RAYMOND C	MINUTE BACTERIOPHAGES F2 & F1 BIOCHEM OF INFECTION	RO1AI 08086-01	VR	25,992
WANG, JAMES C	PHYSICO-CHEMICAL STUDIES OF NUCLEIC ACIDS	RO1GM 14621-02	BBCA	24,547
WESTHEIMER, GERALD	FUNDAMENTAL PROBLEMS OF RETINAL FUNCTION	RO1NB 03154-07	VIS	62,023
WILLIAMS, MARY A	ESSENTIAL FATTY ACID INTAKE AND FATTY ACID SYNTHESIS	RO1AM 12024-01	NTN	30,858
WILLIAMS, ROBLEY C	VIRUS STRUCTURE AND GROWTH IN CULTURED CELLS	RO1CA 02245-15	VR	69,177
WOFSY, LEON	AFFINITY LABELING OF ANTI-POLYSACCHARIDE ACTIVE SITES	RO1AI 06610-03S1	ALY	9,000
WOFSY, LEON	COMPARATIVE STUDIES OF ANTIBODY ACTIVE SITES	RO1AI 06610-04	ALY	75,630
ZUCKER, IRVING	REPRODUCTIVE BEHAVIOR, HORMONES AND BRAIN CHEMISTRY	RO1HD 02982-02	EXP	26,765
INSTITUTION TOTAL	125 7,443,375			
CLINICAL PHARMACOLOGY RESEARCH INSTITUTE				
HANSEN, EDER L	DEFINED MEDIUM FOR A NEMATODE	RO1AI 07359-01S2	TMP	5,914
HANSEN, EDER L	DEFINED MEDIUM FOR A NEMATODE	RO1AI 07359-02	TMP	96,620
INSTITUTION TOTAL	2 102,534			
BEVERLY HILLS				
INSTITUTE FOR CANCER AND BLOOD RESEARCH				
BIERMAN, HOWARD R	LEUKOCYTE DYNAMICS FOLLOWING LEUKAPHERESIS IN MAN	RO1CA 08419-02S1	HEM	10,240
BIERMAN, HOWARD R	LEUKOCYTE DYNAMICS FOLLOWING LEUKAPHERESIS IN MAN	RO1CA 08419-03	HEM	29,256
INSTITUTION TOTAL	2 39,496			
BURBANK				
ST. JOSEPH HOSPITAL				
STRAUS, REUBEN	COOPERATIVE STUDY OF DRUGS AND CORONARY HEART DISEASE	RO1HE 11040-01S1	SRC	19,403
STRAUS, REUBEN	COOPERATIVE STUDY OF DRUGS AND CORONARY HEART DISEASE	RO1HE 11040-02	SRC	115,239
INSTITUTION TOTAL	2 134,642			
CAMARILLO				
CALIFORNIA STATE DEPARTMENT OF M HY--CAMARILLO STATE HOSPITAL				
COLEMAN, RALPH F	ENZYME HISTOCHEMISTRY OF NEUROMUSCULAR DISEASES	RO1NB 08088-01	PTHA	33,683
INSTITUTION TOTAL	1 33,683			
CLAREMONT				
POMONA COLLEGE				
ALLEN, CHARLES F	LIPIDS OF ALGAE AND MICROORGANISMS	RO1AI 04788-06	MCHB	56,110
AMREIN, YOST U	RESTORATION OF VIRULENCE TO CULTURE FORM TRYPANOSOMES	RO1AI 07451-02	TMP	12,465
COHEN, LARRY W	PROTEIN SYNTHESIS DURING PHAGE P22 INFECTION	RO1GM 15601-01	MBC	28,972
CORNELL, NEAL W	REGULATORY PROPERTIES OF HISTIDASE	RO1HD 03620-01	PC	14,173
HANSCH, CORWIN H	CORRELATION OF BIOLOGICAL ACTIVITY AND STRUCTURE	RO1GM 07492-08	PC	30,720
INSTITUTION TOTAL	5 142,440			
COLTON				
WORLD LIFE RESEARCH INSTITUTE				
HALSTEAD, BRUCE W	MONOGRAPH OF POISONOUS PLANTS OF THE WORLD	RO1LM 00072-03	SSS	119,726
INSTITUTION TOTAL	1 119,726			
DAVIS				
CALIFORNIA UNIVERSITY OF AT DAVIS				
ABBOTT, URSULA K	HERITABILITY OF ADAPTATIONS TO HYPOTHERMIC STRESS	RO1HE 02566-11S1	GEN	10,760
ADLER, HENRY E	HEART-JOINT SYNDROMES ASSOCIATED WITH MYCOPLASMA	RO1AI 01726-11	BM	24,724
ALLARD, ROBERT W	GENETIC STRUCTURE OF NATURAL POPULATIONS	RO1GM 10476-06	GEN	51,698
BALDWIN, RANSOM L	METABOLIC CHANGES DURING EARLY LACTATION	RO1AM 07672-05	MET	24,986
BANKOWSKI, RAYMOND A	INTERACTION OF LEUCOSIS AND LATENT INFECTIONS	RO1AI 00445-16	VR	48,364
BARRETT, DENNIS	CONTROL OF ENZYME SYNTHESIS IN DEVELOPMENT	RO1HD 03479-03	MBY	15,069
BASKIN, RONALD J	COMPUTER ANALYSIS OF MUSCLE VOLUME CHANGES	RO1AM 10726-02	PHY	10,551
BELJAN, JOHN R	WOUND HEALING AND EFFECTS OF CHRONIC ACCELERATION	RO1AM 11436-02	SGYB	6,332
BLACK, ARTHUR L	NUTRITIONAL AND BIOCHEMICAL STUDIES ON MILK FORMATION	RO1HD 02375-08	NTN	59,224
BOTTINI, ALBERT T	BASE-INDUCED CYCLIZATIONS	RO1CA 10740-01	MCHA	20,954
BROWNSON, ROBERT H	IRRADIATED HIPPOCAMPUS ELECTRO-MORPHOLOGIC CHANGES	RO1NB 08327-01	PTHA	20,482
BURGER, RAY E	CHEMOCEPTORS IN THE LESSER CIRCULATION	RO1NB 05125-05	PHY	22,295
BURNS, VICTOR W	INTRACELLULAR COORDINATION	RO1AM 09434-05	BIO	9,018
CAMPBELL, ROBERT N	FUNGAL VECTORS OF PLANT VIRUSES	RO1AI 07864-02	VR	38,735
CASTELFRANCO, PAUL A	ACETATE METABOLISM IN SEED STORAGE TISSUES	RO1GM 07532-08	PC	26,566
CHAYKIN, STERLING	BIOLOGICAL OXIDATION REDUCTION MECHANISMS	RO1AM 05741-07	BIO	50,314

TABLE 2—RESEARCH GRANTS, BY AREA, INSTITUTION, AND PRINCIPAL INVESTIGATOR

INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRG	DOLLARS
CALIFORNIA—(CON.)				
CHICHESTER, CLINTON O	TRANSFORMATION OF CAROTENOIDS IN FOODS	RO1AM 11665-07	PC	29,653
CHICHESTER, CLINTON O	ESSAYS IN TOXICOLOGY	RO1ES 00265-02	TOX	15,445
CLEGG, MOSES T	NEURAL FACTORS CONTROLLING REPRODUCTION	RO1NB 03977-11	END	32,532
COLE, HAROLD H	PRO- ANTI- AND GONADOTROPIN FACTORS IN MARE SERUM	RO1AM 06893-05S1	REB	9,836
CONN, ERIC E	METABOLISM OF AROMATIC COMPOUNDS IN HIGHER PLANTS	RO1GM 05301-11	BIO	44,532
CRIDDLE, RICHARD S	THE CHEMICAL FORCES STABILIZING PROTEIN STRUCTURE	RO1GM 10017-06	BBCA	29,470
FAULKIN, LESLIE J, JR	SMALL MARSUPIALS FOR TERATOLOGY AND EMBRYO CULTURE	PO6FR 00359-02	SSS	39,522
FEENEY, ROBERT E	COMPARATIVE BIOCHEMISTRY OF PROTEINS	RO1HD 00122-05	PC	51,160
FREEDLAND, RICHARD A	INFLUENCE OF NUTRITION ON ENZYME SYSTEMS	RO1AM 04732-08	MET	27,533
GESCHWIND, IRVING I	PITUITARY AND HYPOTHALAMIC PROTEINS AND PEPTIDES	RO1AM 00394-07	END	25,908
GLEGG, MOSES T	NEURAL FACTORS CONTROLLING REPRODUCTION	RO1NB 03977-10S1	END	2,564
GRAU, CHARLES R	LIPIIDS IN RELATION TO EMBRYONIC DEVELOPMENT	RO1HD 02003-03	HED	18,777
HARRINGTON, RODNEY E	STUDIES ON SHEAR DEGRADED BIOLOGICAL MACROMOLECULES	RO1GM 13657-03	BBC	23,754
HASKELL, BETTY E	STUDIES ON THE VITAMIN B6 ANTAGONIST IN LINSEED	RO1AM 11838-01	TOX	20,599
HASKELL, BETTY E	MICROBIAL METABOLISM OF NEUROTOXINS	RO1NB 07722-01	TOX	11,825
HEDRICK, JERRY L	CONTROL OF GLYCOGENOLYSIS DURING EARLY EMBRYOGENESIS	RO1AM 11780-01	MBY	27,478
HILL, FREDRIC W	WATER METABOLISM IN THE CHICKEN	RO1AM 07659-05	NTN	36,956
HILL, FREDRIC W	PROTEIN METABOLISM IN HIGH LIPID DIETS	RO1AM 12348-01	NTN	24,625
HOLM, LOUIS W	PROLONGED GESTATION IN HOLSTEIN AND GUERNSEY COWS	RO1HD 02299-10	HED	35,009
HUNGATE, ROBERT E	GASTROINTESTINAL MICROORGANISMS	RO1AI 07406-02	BM	32,464
HURLEY, LUCILLE S	NUTRITIONAL FACTORS IN MAMMALIAN DEVELOPMENT	RO1HD 01743-03	NTN	39,325
HURLEY, LUCILLE S	GENETIC-NUTRITIONAL INTERACTIONS IN DEVELOPMENT	RO1HD 02355-02	NTN	33,860
INGRAHAM, JOHN L	PHYSIOLOGY OF BACTERIA AT LOW TEMPERATURE	RO1AI 05526-06	MBC	27,391
INGRAHAM, LLOYD L	MECHANISM OF ENZYME ACTION AS RELATED TO COFACTORS	RO1GM 08285-07	BIO	29,620
KANEKO, JIRO J	STUDIES ON BOVINE PORPHYRIA	RO1HE 06678-07	HEM	15,827
KILGORE, WENDELL W	THE BIOCHEMISTRY OF INSECT STERILANTS	RO1HD 01265-07	TOX	47,623
KOSUGE, TSUNE	DEFENSE RESPONSES OF PLANTS TO VIRAL INFECTION	RO1AI 06491-03S1	VR	4,142
KRATZER, F H	FUNCTION OF METAL-BINDING AGENTS IN NUTRITION	RO1AM 05334-07	NTN	31,694
KRATZER, F H	NUTRITIONAL STUDIES OF SELECTED PHENOLIC COMPOUNDS	RO1ES 00300-02	TOX	43,839
KRIECKHAUS, EDWARD E	MAMMILLOTHALAMIC SYSTEM AND AVOIDANCE BEHAVIOR	RO1HD 02621-02S1	EXP	1,440
LABEN, ROBERT C	A COMPUTER CENTER FOR HEALTH RELATED SCIENCES	PO7FR 00009-06	COM	103,042
LINSAY, DALE R	BIOLOGICAL SCIENCES SUPPORT	SO5FR 07007-03	NSS	111,276
MEIZEL, STANLEY	SPERM ENZYMES IN FERTILIZATION AND SPERM PHYSIOLOGY	RO1HD 03549-01	REB	25,737
MEYER, MARGARET E	HOST-PARASITE RELATIONSHIPS IN BRUCELLOSIS	RO1AI 04638-07	BM	21,474
MRAK, EMIL M	OPERATION OF THE NATIONAL CENTER FOR PRIMATE BIOLOGY	PO6FR 00169-06S1	PME	186,854
MRAK, EMIL M	OPERATION OF THE NATIONAL CENTER FOR PRIMATE BIOLOGY	PO6FR 00169-07	PME	1,523,285
MUSKER, W KENNETH	DEMETHYLATION AND NITROGEN YLIDES	RO1GM 14062-02	MCHB	29,348
OSEBOLD, JOHN W	MECHANISMS OF ALTERED FUNCTION IN MACROPHAGES	RO1AI 06895-03	ALY	7,447
PETERSON, DANIEL W	NUTRITIONAL INFLUENCES ON GENETIC MUSCULAR DYSTROPHY	RO1NB 07359-02	NTN	37,447
PREISS, JACK	REGULATION AND CONTROL OF POLYSACCHARIDE SYNTHESIS	RO1AI 05520-06	PC	78,289
PRITCHARD, W R	GENERAL RESEARCH SUPPORT GRANT	SO1FR 05457-06	NSS	367,579
RABINOWITZ, LAWRENCE	RENAL EXCRETION OF ORGANIC NON-ELECTROLYTES	RO1AM 12367-01	PHY	18,829
RABINOWITZ, LAWRENCE	RENAL EXCRETION OF ORGANIC NON-ELECTROLYTES	RO1AM 12367-02	PHY	36,387
RAPPAPORT, LAWRENCE	NATURAL GROWTH SUBSTANCES AND ARRESTED GROWTH	RO1GM 12885-08	MBY	21,602
RHODE, EDWARD A	VENTRICULAR VOLUME RELATIONSHIPS	RO1HE 05622-07	CVA	24,680
RICK, CHARLES M	TRISOMIC INHERITANCE	RO1GM 06209-10	GEN	26,880
ROGERS, QUINTON R	NUTRITIONAL REGULATION OF PROTEIN METABOLISM	RO1AM 11066-02	NTN	31,115
RUEBNER, BORIS H	LIVER INJURY, PARTICULARLY OF VIRAL ORIGIN	RO1AI 08953-01	PTHB	33,076
SCHMIDT, L H	THE BIOLOGY AND THERAPY OF PRIMATE MALARIAS	RO1AI 05888-06	TMP	101,848
SCHMIDT, LEON H	THE BIOLOGY AND THERAPY OF TUBERCULOSIS	RO1AI 05891-06	SSS	145,710
SCHWABE, CALVIN W	HOST-PARASITE RELATIONSHIPS IN PARASITIC ZOOZOSES	RO1AI 07857-02	TMP	39,282
SEGEL, IRWIN H	GLYCOGEN METABOLISM IN MICROORGANISMS	RO1AI 07560-02	MBC	15,185
SHALLA, THOMAS A	SYNTHESIS AND ASSEMBLY OF PLANT VIRUSES	RO1AI 07006-03	PC	13,463
SMITH, ARTHUR H	ADAPTATION OF ANIMALS TO CLIMATIC STRESS	RO1HE 01920-13S1	PHY	6,120
SNOW, SIDNEY R	GENETIC FINE STRUCTURE AND RECOMBINATION IN YEAST	RO1GM 13716-03	GEN	9,995
STARR, MORTIMER P	METABOLISM OF PHYTOPATHOGENIC BACTERIA	RO1AI 08426-13	BM	45,423
STEWART, GEORGE F	THE CHEMISTRY AND TOXICOLOGY OF AGRICULTURAL CHEMICALS	PO1ES 00054-04	SSS	259,923
STOWELL, ROBERT E	COMPARATIVE MEDICINE	SO4FR 06138-01	NSS	450,000
STUMPF, PAUL K	ANALYSIS OF BIOCHEMICAL COMPOUNDS	RO1GM 13665-03	BIO	19,680
SWINEHART, JAMES H	KINETICS OF ELECTRON DONOR-ACCEPTOR COMPLEX SYSTEMS	RO1GM 11767-05	MCHA	9,626
TAPPEL, ALOYS L	LYSOSOMES	RO1AM 05609-06	PC	41,970
TAPPEL, ALOYS L	NUTRITIONAL FUNCTION OF SELENIUM	RO1AM 06424-06	NTN	28,279
TAPPEL, ALOYS L	FREE-RADICAL LIPID-PEROXIDATION DAMAGE	RO1AM 09933-11	PC	26,024
WAGMAN, IRVING H	PHYSIOLOGIC SENSORY MECHANISMS	RO1NB 07844-01	NEUB	32,283
WHITAKER, JOHN R	PROPERTIES OF THE PROTEOLYTIC ENZYMES OF FIG LATEX	RO1GM 05216-11	BIO	11,782
WILSON, BARRY W	TOXICANTS AND AVIAN CELL GROWTH AND METABOLISM	RO1ES 00202-02	TOX	31,362
WILSON, EDWARD E	INDOLEACETIC ACID SYNTHESIS BY PSEUDOMONAS SAVASTANOI	RO1AI 06323-04	PC	41,317
WOLFE, STEPHEN L	THE FINE STRUCTURE OF MEIOTIC CHROMOSOMES	RO1GM 11873-05	MBY	9,225
WOOLLEY, DOROTHY E	PHYSIOLOGIC EFFECTS OF CHRONIC EXPOSURE TO TOXICANTS	RO1ES 00163-02	TOX	38,304
YAMAMOTO, RICHARD	VERNEAL AND CONGENITAL INFECTIONS WITH MYCOPLASMA	RO1AI 07805-02	BM	31,199
YOUMANS, JULIAN R	CEREBRAL BLOOD FLOW IN CEREBROVASCULAR DISEASE	RO1NB 08013-01	NEUA	17,852
YOUMANS, JULIAN R	THE EFFECT OF VASCULAR DISEASE ON CEREBRAL BLOOD FLOW	RO1NB 08013-02	NEUA	24,773
INSTITUTION TOTAL	88	5,389,447		

TABLE 2—RESEARCH GRANTS, BY AREA, INSTITUTION, AND PRINCIPAL INVESTIGATOR

INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRG	DOLLARS
CALIFORNIA—(CON.)				
DOWNNEY				
LOS ANGELES COUNTY DEPARTMENT OF HOSPITALS--RANCHO LOS AMIGOS HOSPITAL				
HACKNEY, JACK D	CO2 TRANSFER AND BODY STORES	RO1HE 08529-05	PHY	15,051
HOOD, ROBERT T, JR	REVASCULARIZATION IN CORONARY INSUFFICIENCY	RO1HE 11051-02	SGYB	41,234
MOONEY, V	A STUDY OF CERAMIC SKELETAL IMPLANT MATERIALS	RO1AM 12716-01	SGYB	12,374
NICKEL, ELDON D	GENERAL RESEARCH SUPPORT GRANT	SO1FR 05542-06	NSS	73,864
NICKEL, VERNON L	CONTROL SYSTEMS FOR EXTERNALLY POWERED ORTHOTICS	RO1AM 07550-09	SGYB	55,450
NICKEL, VERNON L	OCULAR CONTROL SYSTEMS FOR UPPER EXTREMITY ORTHOTICS	RO1AM 10762-02	SGYB	36,678
NICKEL, VERNON L	TELEMETRY CONTROL FOR ORTHOTIC POWER SYSTEMS	RO1AM 10826-02	SGYB	54,694
SELVESTER, RONALD	COMPUTER MODEL OF THE ELECTRICAL FIELD OF THE HEART	RO1HE 10722-02	COM	174,847
INSTITUTION TOTAL	8	464,192		
DUARTE				
CITY OF HOPE MEDICAL CENTER				
AYERS, RACHEL	DEVELOPMENT OF ROLE OF CLINICAL NURSE SPECIALIST	R21NU 00265-01A1	NR	50,052
BAXTER, CLAUDE F	AMINO ACIDS & RELATED METABOLITES IN NERVOUS SYSTEM	RO1NB 03743-07	MET	53,454
BEUTLER, ERNEST	GALACTOSEMIA GENETICS, INCIDENCE AND PATHOPHYSIOLOGY	RO1HD 01974-03	GEN	44,473
BEUTLER, ERNEST	THE FORMATION AND SURVIVAL OF RED BLOOD CELLS	RO1HE 07449-06	HEM	106,224
BRUNSVOLD, R I	GENERAL RESEARCH SUPPORT GRANT	SO1FR 05471-06	NSS	330,896
CATTANACH, BRUCE M	INVESTIGATIONS INTO THE X-INACTIVATION PROCESS	RO1GM 15885-02	GEN	39,798
COMINGS, DAVID E	PHYSIOLOGY AND BIOCHEMISTRY OF HUMAN CHROMOSOMES	RO1GM 15886-02	GEN	22,116
COMINGS, DAVID E	AGING AND DNA IN VITRO STUDIES	RO1HD 03637-01	GEN	27,420
HOLDEN, JOSEPH T	UPTAKE AND ACCUMULATION OF AMINO ACIDS BY BACTERIA	RO1AI 01487-11S1	MBY	11,977
IKEDA, KAZUO	ELECTROPHYSIOLOGICAL STUDY ON THE SYNAPTIC TRANSMISSION	RO1NB 07442-01	PHY	63,375
KAPLAN, WILLIAM D	INHERITED NEUROLOGICAL DISORDERS	RO1NB 08014-01	GEN	38,388
KINOSITA, RIOJUN	ULTRASTRUCTURE OF MAMMALIAN CHROMOSOMES	RO1CA 06019-06S1	MBY	11,010
KINOSITA, RIOJUN	MECHANISM OF CARCINOGENESIS	RO1CA 06477-07	PTHB	66,020
KITRELL, WILLIAM A	PROVISION OF RESEARCH ANIMALS OF SPECIAL GENOTYPES	P06FR 00433-01	AR	65,644
KLEVECZ, ROBERT R	SYNCHRONIZED CELLS CONTROLS IN GROWTH AND DIVISION	RO1CA 10619-01	MBY	41,913
OHNO, SUSUMU	SEX CHROMOSOMES OF NORMAL AND MALIGNANT CELLS	RO1CA 05138-09	GEN	108,805
ROBERTS, EUGENE	FREE AMINO ACIDS IN NORMAL AND NEOPLASTIC TISSUES	RO1CA 02568-14	PC	66,129
ROBERTS, EUGENE	NITROGEN METABOLISM OF NERVOUS TISSUE	RO1NB 01615-10	NEUB	124,032
RODBARD, SIMON	VASCULAR MODIFICATIONS INDUCED BY BLOOD FLOW	RO1HE 08721-05	CVB	38,640
ROUSER, GEORGE	LIPID COMPOSITION OF BRAIN IN PATHOLOGICAL STATES	RO1NB 01847-10	NEUB	78,719
ROUSER, GEORGE	LIPIDS OF HUMAN ORGANS NORMAL AND PATHOLOGICAL	RO1NB 06237-12	MET	37,064
SCHNEIDER, ARTHUR S	ERYTHROCYTE METABOLISM IN HEALTH AND DISEASE	RO1HE 12382-01	HEM	55,620
SECOF, ROBERT L	DROSOPHILA-SIGMA FACTOR RELATIONSHIPS	RO1AI 05038-06	VR	30,421
SOLOMON, JOEL	WESTERN CONFERENCE CANCER CHEMOTHERAPY TRIALS	R10CA 07585-05	SRC	59,743
TEPLITZ, RAYMOND L	CYTOTKINIC MECHANISMS IN NEOPLASIA	RO1CA 08791-03	GEN	45,592
TODD, CHAS W	STRUCTURE AND FUNCTION OF ANTIBODY GLOBULIN	RO1AI 07995-02	ALY	57,916
WERMER, PAUL L	SECOND NATIONAL CONFERENCE ON PROSTHETIC HEART VALVES	R13HE 11584-01	SGYB	19,100
INSTITUTION TOTAL	27	1,694,541		
ELDRIDGE				
CALIFORNIA STATE DEPARTMENT OF M HY--SONOMA STATE HOSPITAL				
MC KEAN, CHARLES M	EFFECT OF AMINO ACIDS ON METABOLISM, EEG, & BEHAVIOR	RO1HD 01823-04S1	PMY	3,229
MC KEAN, CHARLES M	EFFECT OF AMINO ACIDS ON METABOLISM, EEG, AND BEHAVIOR	RO1HD 01823-06	NEUA	112,080
MC KEAN, CHARLES M	GENERAL RESEARCH SUPPORT GRANT	SO1FR 05609-02	NSS	48,709
INSTITUTION TOTAL	3	164,018		
FRESNO				
FRESNO STATE COLLEGE				
BIGGERSTAFF, WARREN R	B-UNSATURATED THIOLACTONE DERIVATIVES OF STEROIDS	RO1CA 06774-06	MCHA	14,821
INSTITUTION TOTAL	1	14,821		
FULLERTON				
CALIFORNIA STATE COLLEGE AT FULLERTON				
ROTHMAN, ALVIN H	THE BIOCHEMISTRY AND PHYSIOLOGY OF THE CESTODE CUTICLE	RO1AI 06442-04	TMP	8,380
INSTITUTION TOTAL	1	8,380		
GARDENA				
CALIFORNIA STATE COLLEGE DOMINGUEZ HILLS				
CHI, LOIS W	INFECTIVITY AND REPRODUCTIVITY OF HYBRID ONCOMELANIA	RO1AI 07744-02	TMP	18,561
INSTITUTION TOTAL	1	18,561		
IRVINE				
CALIFORNIA UNIVERSITY OF AT IRVINE				
BRANT, DAVID A	THE CONFIGURATION IN SOLUTION OF LINEAR BIOPOLYMERS	RO1GM 13908-03	BBCB	22,914
CAMPBELL, RICHARD D	ORIENTATION AND BEHAVIOR OF CENTRIOLES	RO1GM 14443-02	CBY	15,493
GRANGER, GALE A	IN VITRO STUDIES ON IMMUNE AND TARGET CELL INTERACTIONS	RO1AI 07839-02	IMB	18,569
HARTWELL, LELAND H	BIOCHEMICAL STUDIES ON THE CONTROL OF DNA SYNTHESIS	RO1GM 13304-03	BIO	22,424
KRASSNER, STUART M	METABOLISM AND TRANSFORMATION IN HEMOFLAGELLATES	RO1AI 06827-03	TMP	19,954
MC GAUGH, JAMES L	BIOMEDICAL SCIENCES SUPPORT	SO5FR 07008-03	NSS	66,112

TABLE 2—RESEARCH GRANTS, BY AREA, INSTITUTION, AND PRINCIPAL INVESTIGATOR

INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRG	DOLLARS
CALIFORNIA—(CON.)				
MC LAUGHLIN, CALVIN S	COMPARATIVE STRUCTURE AND FUNCTION OF IBOSOMES	R01CA 10628-01	PC	36,246
STEINHAUS, EDWARD A	THE DISEASES OF INVERTEBRATE ANIMALS	R01AI 05358-05	SSS	159,550
STEPHENS, GROVER C	UPTAKE OF ORGANIC COMPOUNDS BY MARINE INVERTEBRATES	R01GM 12889-05	PHY	37,519
TAFT, ROBERT W	AN F-NMR STUDY OF HYDROGEN BONDING	R01GM 14078-03	BBCB	37,448
THOMPSON, RICHARD F	CENTRAL NEURAL MECHANISMS OF HEARING	R01NB 07661-01	CMS	15,038
THOMPSON, RICHARD F	CENTRAL NEURAL MECHANISMS OF HEARING	R01NB 07661-02	CMS	52,383
VERZEANO, MARCEL	ACTIVITY IN THE NEURONAL NETWORKS OF THE BRAIN	R01NB 07145-02	NEUA	39,031
WHALEN, RICHARD E	HORMONES AND BEHAVIOR	R01HD 00893-06	DBR	31,416
WOOLFOLK, CLIFFORD A	THE REGULATION OF GLUTAMINE SYNTHETASE	R01CA 08390-03	BIO	20,320
WULFF, DANIEL L	CYTOCHROMES, OXIDATIVE PHOSPHORYLATION, AND MEMBRANES	R01AM 09803-03	BIO	19,884
INSTITUTION TOTAL	16	614,301		
LOMA LINDA				
LOMA LINDA UNIVERSITY				
CRANE, MILTON G	ADRENAL STEROID SECRETION RATE STUDIES	R01HE 04745-09	END	29,850
CRANE, MILTON G	EFFECT OF CERTAIN CHEMICALS ON PLASMA RENIN	R01HE 11031-02	GMB	22,331
DE VINCENZO, JOHN P	TISSUE CULTURE PERFUSION OF INTACT HUMAN TEETH	R01DE 02169-02S2	DEN	187
DE VINCENZO, JOHN P	TISSUE CULTURE PERFUSION OF INTACT HUMAN TEETH	R01DE 02169-03	DEN	28,440
DUBNOFF, JACOB W	ACTIVE FORMS OF VITAMIN B12 AND SULFHYDRYL GROUPS	R01AM 06716-05S1	BIO	11,073
HINSHAW, DAVID B	GENERAL RESEARCH SUPPORT GRANT	S01FR 05352-07	NSS	133,023
MORRISON, LESTER M	PREVENTION OF CORONARY ATHEROSCLEROSIS	R01HE 11069-02	NTN	27,164
NEILSEN, IVAN R	DEVELOPMENT OF BIOMEDICAL COMPUTATION FACILITY	P07FR 00276-03	COM	28,800
NEILSEN, IVAN R	MECHANISMS OF REACTIONS INDUCED BY PULSED RADIATION	R01CA 08256-03S1	RAD	2,932
NORWOOD, WILLIAM F	HISTORY OF MEDICAL EDUCATION IN THE UNITED STATES	R01LM 00494-06	HLS	9,246
RYCKMAN, RAYMOND E	A STATE OF THE ART REVIEW OF TRIATOMINAE LITERATURE	R01LM 00567-01	BCM	23,030
SMITH, CHARLES T	GENERAL RESEARCH SUPPORT GRANT	S01FR 05302-07	NSS	33,854
SMITH, LOUIS L	VASCULAR REACTIVITY IN SURGICAL CARE	R01HE 04639-09	SGYB	29,979
STROTHER, ALLEN	METABOLISM OF CARBAMATE PESTICIDES BY LIVER FRACTION	R01ES 00278-02	TOX	17,287
THOMAS, J EARL	AUTONOMIC REGULATION OF GASTROINTESTINAL FUNCTIONS	R01AM 01445-12	PHY	20,415
INSTITUTION TOTAL	15	417,611		
LONG BEACH				
CALIFORNIA STATE COLLEGE AT LONG BEACH				
LOOMIS, RICHARD B	CHIGGER MITES IN WESTERN NORTH AMERICA	R01AI 03407-09	TMP	26,761
MAXWELL, KENNETH E	EFFECT OF SURFACTANTS ON ACTIVITY OF INSECTICIDES	R01ES 00073-02	TOX	15,737
ORPET, RUSSEL E	STRUCTURE OF INTELLECT DETERMINANTS OF CONSERVATION	R01HD 02368-02	DBR	21,997
PERLGUT, LOUIS E	IODOHISTIDINE-LINKED CONTROL OF METABOLISM BY THYROID	R01AM 10096-03S1	END	5,058
INSTITUTION TOTAL	4	69,553		
MEMORIAL HOSPITAL OF LONG BEACH				
JENNINGS, ELMER R	PREVENTION OF ISO-IMMUNIZATION WITH ANTI-RH SERUM	R01HD 01504-04	HEM	27,066
INSTITUTION TOTAL	1	27,066		
LOS ANGELES				
CALIFORNIA STATE COLLEGE AT LOS ANGELES				
FRATELLO, ANTHONY	NMR STUDY OF ELECTROLYTES IN BINARY SOLVENT MIXTURES	R01GM 11768-04	BBC	13,891
GOLDWHITE, HAROLD	HETEROCYCLIC COMPOUNDS CONTAINING PHOSPHORUS	R01CA 07182-05	MCHA	18,866
PAPE, LEON	COMPARATIVE STUDY OF A FIBROCYSTIC GLYCOPROTEIN	R01AM 10542-01A1	BBCB	15,252
THOMAS, DUDLEY W	ACID HYDROLASES IN CONNECTIVE TISSUE CATABOLISM	R01DE 02793-01	MET	20,420
INSTITUTION TOTAL	4	68,429		
CALIFORNIA UNIVERSITY OF AT IRVINE -CALIFORNIA COLLEGE OF MEDICINE				
ASHE, HILARY	PURIFICATION AND CHARACTERIZATION OF NUCLEASES	R01GM 14302-02	MBC	22,202
BELL, GRACE B	GENERAL RESEARCH SUPPORT GRANT	S01FR 05351-07	NSS	60,144
BERK, J EDWARD	CHARACTERIZATION OF ISOAMYLASES IN HEALTH AND DISEASE	R01GM 11897-04	PTHB	46,440
CIOFALO, FRANK R	COMPARATIVE CARDIAC PHARMACOLOGY	R01HE 10939-02	PHRA	15,875
GIOLLI, ROLAND A	ORGANIZATION SUBCORTICAL PROJECTION OF VISUAL CORTEX	R01NB 06253-03	NEUA	13,039
IBSEN, KENNETH H	METABOLIC INTERRELATIONSHIPS	R01CA 07883-04	MBY	21,001
KURNICK, NATHANIEL B	MECHANISM OF RENAL HYPERTROPHY	R01HE 10077-03S1	PTHA	3,890
O LOUGHLIN, BERNARD J	NORMAL SUBARACHNOID CISTERNS IN INFANTS AND CHILDREN	R01NB 07394-01	NEUA	31,980
QUINLIVAN, W LESLIE G	HUMAN SEMEN ANTIBODIES CAUSING INFERTILITY	R01HD 02322-04	REB	18,952
SPERLING, DONALD R	PREVENTION OF TOXIC EFFECTS OF HYPERBARIC OXYGENATION	R01HE 10544-02	SGYA	13,867
STEMMER, EDWARD A	PHYSIOLOGICAL MECHANISMS OF THE DUMPING SYNDROME	R01AM 10265-03	GMA	20,630
STINEBRING, WARREN R	INTERFERON PRODUCTION, RELEASE, ROLE IN RESISTANCE	R01AI 07427-02	VR	4,363
INSTITUTION TOTAL	12	272,383		
CALIFORNIA UNIVERSITY OF AT LOS ANGELES				
ADAMS, FORREST H	METABOLIC AND CIRCULATORY STUDIES IN INFANTS	R01HD 00251-07	CVB	31,640
ADAMS, FORREST H	FETAL LUNG FLUID	R01HD 01275-03	HED	38,165
ADAMS, WILLIAM S	LEUKEMIAS, LYMPHOMAS AND MYELOMAS	R01CA 02433-14	PHRB	66,236
ADEY, W ROSS	TEMPORAL LOBE FUNCTIONS IN BEHAVIORAL PROCESSES	R01NB 01883-10	NEUA	48,567
ALFIN-SLATER, ROSLYN B	CARBOHYDRATE - LIPID INTERRELATIONSHIPS	R01HE 10113-02S1	NTN	786
ANET, FRANK A	NMR STUDIES WITH SUPERCONDUCTING MAGNETS	R01GM 12769-02	BBC	28,594
ARQUILLA, EDWARD R	IMMUNOLOGICAL STUDIES ON INSULIN	R01AM 06001-06S1	ALY	11,750

TABLE 2—RESEARCH GRANTS, BY AREA, INSTITUTION, AND PRINCIPAL INVESTIGATOR

INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRG	DOLLARS
CALIFORNIA—(CON.)				
ARQUILLA, EDWARD R	MECHANISMS OF INSULIN ACTION	RO1AM 06001-07	ALY	49,372
ASSALI, NICHOLAS S	PHYSIOLOGY OF NORMAL AND ABNORMAL PREGNANCY	RO1HE 01755-15	HED	69,393
ATKINSON, DANIEL E	ENZYME-EFFECTOR INTERACTIONS AND METABOLIC REGULATION	RO1AM 09863-03	PC	40,618
BAKER, NOME	GLUCOSE AND FAT METABOLISM IN DIABETES	RO1AM 04705-06S1	MET	7,088
BALCH, ALAN L	METAL COMPLEXES OF OXYGEN AND DIMINE	RO1AM 12182-01	MCHA	15,408
BALL, GORDON H	CULTIVATION OF INSECT PHASE OF AVIAN PLASMODIA	RO1AI 00087-17S1	TMP	33
BALL, GORDON H	CULTIVATION OF INSECT PHASE OF AVIAN PLASMODIA	RO1AI 00087-18	TMP	36,414
BALLUDA, MARCEL A	TUMOR INDUCTION BY AVIAN MYELOBLASTOSIS VIRUS	RO1CA 10197-03	VR	102,606
BARAJAS, LUCIANO	ELECTRON MICROSCOPY OF THE JUXTAGLOMERULAR APPARATUS	RO1HE 11114-02	PTHA	26,233
BARKER, WILEY F	SURGICAL ATHEROSCLEROSIS IN HYPERLIPEMIA	RO1HE 11946-01	SGYA	17,646
BARNETT, EUGENE V	DNA NUCLEAR ANTIGENS ANTIBODIES AND IMMUNE COMPLEXES	RO1AM 11170-01S1	ALY	19,915
BARNETT, EUGENE V	DNA, NUCLEAR ANTIGENS, ANTIBODIES AND IMMUNE COMPLEXES	RO1AM 11170-02	ALY	40,621
BASHORE, RICHARD A	REPRODUCTIVE PHYSIOLOGY IN A PRIMATE BREEDING COLONY	RO1HM 00474-11	HED	63,466
BEALL, GILDON N	AN IMMUNOLOGICAL INVESTIGATION OF LATS	RO1AM 10187-03	IMB	49,950
BECHTOL, CHARLES O	CHILD AMPUTEE PROSTHETICS PROJECT	RO1HD 00489-08S1	SSS	19,327
BELKIN, JOHN N	MOSQUITOES OF MIDDLE AMERICA	RO1AI 04379-07	TMP	54,000
BEVAN, JOHN A	ACTION OF DRUGS ON INTRATHORACIC SENSORY ENDINGS	RO1HE 06730-06	PHRA	14,446
BEVAN, JOHN A	MORPHOPHARMACOLOGY OF VASCULAR ADRENERGIC TRANSMISSION	RO1HE 08359-05	PHRA	34,669
BOYER, PAUL D	ENZYMIC PHOSPHORYLATIONS AND RELATED MECHANISMS	RO1GM 11094-06	PC	74,572
BRADY, ALLAN J	EXCITATION CONTRACTION COUPLING IN HEART MUSCLE	RO1HE 09257-04	PHY	44,026
BRAZIER, MARY A	COMPUTER AIDED RESEARCH ON THE BRAIN	RO1NB 04773-05	COM	118,203
BRILL, NORMAN O	A DEVELOPMENTAL STUDY OF THE STRESS RESPONSE	RO1AM 06603-06	END	25,674
BROWN, JOSIAH	METABOLISM OF ADIPOSE TISSUE IN DIABETES AND OBESITY	RO1AM 01847-11	MET	24,717
BROWN, W JANN	NUTRITIONS LONG TERM ROLE IN CATARACT DEVELOPMENT	RO1NB 07250-02	VIS	37,736
BUCHWALD, JENNIFER S	NEURONAL CHANGES DURING EARLY PHASES OF LEARNING	RO1NB 05437-04	NEUA	33,913
BULLOCK, THEODORE H	STUDIES IN COMPARATIVE NEUROPHYSIOLOGY	RO1NB 00021-20	PHY	41,528
CAMPBELL, JOHN H	ANTIBODY SYNTHESIS AND THE GENETIC CODE	RO1AI 07847-02	ALY	16,057
CARSTEN, MARY E	CHEMISTRY & FUNCTION OF SMOOTH MUSCLE UTERUS PROTEINS	RO1HD 00010-05	PC	30,192
CHAPMAN, JOHN M	LOS ANGELES HEART STUDY	RO1HE 04087-10	EOC	35,702
CHARWAT, ANDREW F	THIN FILMS ON ROTATING BODIES FOR BLOOD OXYGENATION	RO1HE 11763-01	SGYB	20,974
COLLIER, ROBERT J	INHIBITION OF PROTEIN SYNTHESIS BY DIPHTHERIA TOXIN	RO1AI 07877-02	BM	27,918
CRADDOCK, CHARLES G	PHYSIOLOGIC STUDIES OF BLOOD CELLS	RO1CA 07169-05	HEM	71,553
CRAM, DONALD J	ASYMMETRY EFFECTS INDUCED BY HETEROELEMENTS	RO1GM 12640-04	MCHA	34,856
CRESCITELLI, FREDERICK	ELECTROPHYSIOLOGICAL ANALYSIS OF THE VISUAL SYSTEM	RO1NB 01509-10	VIS	37,381
DAYTON, SEYMOUR	METABOLISM OF ARTERIAL TISSUE IN ATHEROSCLEROSIS	RO1HE 03734-10	MET	12,641
DECIMA, EMILIO E	CALCIUM ACTIONS ON CENTRAL NERVOUS SYSTEM NEURONS	RO1NB 07154-02	PHY	20,165
DENNY, PAUL C	PROTEIN SYNTHESIS ACTIVATION IN SEA URCHIN EGGS	RO1GM 16090-01	CBY	30,245
DIAMOND, JARED M	WATER TRANSPORT ACROSS EPITHELIAL MEMBRANES	RO1GM 14772-02	PHY	36,079
DIRKS, DONALD D	HEAD MOVEMENT AND BINAURAL HEARING	RO1NB 05873-03S1	CMS	3,658
DIXON, WILFRID J	MEDICAL DATA PROCESSING RESEARCH	P07FR 00003-07	COM	1,661,751
DIXON, WILFRID J	COOPERATIVE STUDY OF ACTH IN MULTIPLE SCLEROSIS	RO1NB 05851-04	SRC	56,416
DIXON, WILFRID J	OPERATION OF A STATISTICAL SERVICE CENTER	RO1CA 10457-01	SRC	86,898
ELDRED, EARL	INTEGRATION OF SUPRASPINAL AND SEGMENTAL ACTIVITY	RO1NB 01143-12	NEUA	40,124
ELDRED, EARL	COMPARISONS IN HISTOLOGY OF MUSCLE SENSORY ORGANS	RO1NB 03019-08	NEUB	23,109
FAHRNEY, DAVID E	ENZYMIC CATALYSIS, STRUCTURE AND FUNCTION	RO1GM 13446-03	MCHB	21,486
FESSLER, JOHN H	STUDIES OF MOLECULAR SIZE OF HYALURONIC ACID	RO1AM 11546-02	BBCB	28,256
FINK, ROBERT M	NUCLEIC ACID METABOLISM IN MALIGNANT STATES	RO1CA 01669-17	BIO	8,092
FLORSHEIM, WARNER H	CONTROL OF THYROID FUNCTION	RO1AM 04455-08	END	27,798
FONKALSRUD, ERIC W	ENDOCRINE HOMOTRANSPLANTATION TO BONE MARROW SPACE	RO1AM 10114-03	IMB	11,478
FONKALSRUD, ERIC W	PHYSIOLOGIC STUDIES FOLLOWING LUNG ALLOGRAFTING	RO1HE 11695-01	SGYA	36,028
FOOS, ROBERT Y	THE EYE GROWTH & AGING CHANGES IN SYSTEMIC DISEASE	RO1NB 02866-08	VIS	43,816
FOOS, ROBERT Y	ULTRASTRUCTURE OF RETINAL BIPOLAR CELLS	RO1NB 04228-06	VIS	54,078
FRENCH, JOHN D	SPECIAL CLINICAL RESEARCH PROJECT NEUROPHYSIOLOGY	P01NB 02808-08	NBPA	210,593
FRENCH, JOHN D	ANIMAL RESOURCE FOR THE BRAIN RESEARCH INSTITUTE	P06FR 00255-03	SSS	83,740
FRENCH, JOHN D	APPLICATION OF COMPUTING TECHNIQUES TO BRAIN FUNCTION	RO1NB 02501-07S1	COM	70,000
FRENCH, JOHN D	APPLICATION OF COMPUTING TECHNIQUES TO BRAIN FUNCTION	RO1NB 02501-08	COM	492,831
GEISSMAN, THEODORE A	PLANT GROWTH REGULATORS	RO1GM 12004-03S1	MCHA	3,464
GEISSMAN, THEODORE A	STUDIES IN PHYTOCHEMISTRY	RO1GM 14240-02	MCHA	41,948
GELLER, EDWARD	DIFFERENTIAL STRESS EFFECTS ON ENZYME INDUCTION	RO1AM 08775-04	MET	18,486
GEORGE, ROBERT N	THE CENTRAL NERVOUS SYSTEM IN CARBOHYDRATE METABOLISM	RO1NB 04499-06	NEUB	34,668
GOERKE, L S	GENERAL RESEARCH SUPPORT GRANT	SO1FR 05442-07	NSS	196,905
GOLDBERG, STANLEY J	PULMONARY CIRCULATION II EFFECTS OF SEDATIVES	RO1HE 09796-03	PHRA	28,372
GONICK, HARVEY C	ACID-BASE BALANCE IN NORMALS, NEPHRITIS AND RTA	RO1AM 09364-04	GMB	36,363
GOODHILL, VICTOR	HUMAN TEMPORAL BONE PATHOLOGY	RO1NB 06606-03	CMS	74,403
GODDMAN, FREDRIC	ELECTROCHEMICAL MODIFICATION OF ENAMEL PERMEABILITY	RO1DE 02279-02S1	DEN	138
GODDMAN, FREDRIC	ELECTROCHEMICAL MODIFICATION OF ENAMEL PERMEABILITY	RO1DE 02279-03	DEN	19,516
GORSKI, ROGER A	STUDIES ON THE OVARIAN-HYPOTHALAMIC-HYPOPHYSEAL AXIS	RO1HD 01182-06	END	46,643
GRINNELL, ALAN D	FUNCTION AND FORMATION OF SYNAPSES	RO1NB 06232-03	NEUB	23,524
GROSSMAN, MORTON I	STUDIES ON GASTRIC PHYSIOLOGY	RO1AM 08354-04	PHY	16,963
GUZE, LUCIEN B	PATHOGENESIS OF EXPERIMENTAL PYELONEPHRITIS	RO1AI 02257-10	PTHA	51,056
HALPERN, RICHARD M	INHIBITION OF TUMOR CELL GROWTH BY DNA	RO1CA 10308-02	PHRB	16,717
HANAFEE, WILLIAM N	ANGIOGRAPHIC DETERMINATIONS OF ORBITAL CIRCULATION	RO1NB 07598-01	RAD	7,163
HARARY, ISAAC M	DIFFERENTIATION AND METABOLISM IN CULTURED HEART CELLS	RO1HE 11216-09	MBY	29,582

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INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRG	DOLLARS
CALIFORNIA—(CON.)				
HAYS, MARGUERITE T	EFFECT OF CATECHOLAMINES ON THYROID FUNCTION	RO1AM 09185-04	END	20,501
HAYWARD, JAMES N	CENTRAL NEURAL REGULATION OF BODY FLUIDS	RO1NB 05638-03S2	NEUA	7,697
HAYWARD, JAMES N	CENTRAL NEURAL REGULATION OF BODY FLUIDS	RO1NB 05638-04	NEUA	26,998
HEMINGWAY, ALLAN	CARDIORESPIRATORY EFFECTS OF BODY TEMPERATURE CONTROL	RO1HE 10868-02	AFY	20,363
HILDEMAN, WILLIAM H	COMPARATIVE TRANSPLANTATION IMMUNOGENETICS	RO1AI 07970-02	ALY	67,670
HILLIARD, JESSAMINE	BIOSYNTHESIS AND PHYSIOLOGY OF OVARIAN STEROIDS	RO1HD 01177-07	REB	41,327
HOWARD, DEXTER H	THE INTRACELLULAR GROWTH OF HISTOPLASMA CAPSULATUM	RO1AI 07461-02	BM	11,506
HRACHOVEC, JOSEF P	PLASMA PROTEIN ACTION ON WHITE BLOOD CELL METABOLISM	RO1CA 06848-06	HEM	24,764
JENDEN, DONALD J	PHARMACOLOGY OF CENTRAL CHOLINERGIC MECHANISMS	RO1NB 03007-08	PHRA	29,272
JOHNSON, ARTHUR R	STRONTIUM INCORPORATION INTO THE HARD TISSUES	RO1DE 02686-01	DEN	28,646
JONES, MARGARET H	TOXOPLASMOSIS IN PREGNANCY	RO1HD 01750-03	BM	17,576
KAESZ, HERBERT D	DONOR PROPERTIES OF TRANSITION METALS	RO1GM 14336-02	MCHB	19,010
KALMANSON, GEORGE M	IMMUNOLOGICAL STUDIES IN PYELONEPHRITIS	RO1AI 03310-09	PTHA	26,585
KAPLAN, SOLOMON A	GROWTH HORMONE AND NUCLEOLAR RNA	RO1HD 03946-01	MET	18,916
KATTUS, ALBERT A	EFFECT OF TRAINING ON EFFORT S-T SEGMENT DEPRESSION	RO1HE 11634-01	AFY	33,376
KATTUS, ALBERT A	EFFECT OF EXERCISE ON THE CORONARY CIRCULATION	RO1HE 11823-01	CVA	43,639
KAUFMAN, JOSEPH J	CHEMOTHERAPY AND RADIOTHERAPY IN BLADDER CARCINOMA	RO1CA 07583-05	SRC	24,057
KAUFMAN, JOSEPH J	HETEROLOGOUS BLADDER CANCER TRANSPLANTATION STUDIES	RO1CA 08276-03S1	IMB	6,686
KAUFMAN, JOSEPH J	EXPERIMENTAL RENAL ARTERIAL HYPERTENSION	RO1HE 09575-03	SCYA	41,213
KEOGH, JACK F	DEVELOPMENTAL EVALUATION OF LIMB MOVEMENTS	RO1HD 01059-04	DBR	14,274
KIRSCHBAUM, THOMAS H	MATERNAL-FETAL BLOOD OXYGEN AFFINITY DIFFERENCES	RO1HD 02729-02	HED	26,801
KIVELSON, DANIEL	ELECTRON SPIN RESONANCE STUDIES	RO1GM 11125-05	BBCB	27,722
KONRAD, MICHAEL W	TEMPLATE ACTIVITY AND SYNTHESIS OF LAMBDA PHAGE RNA	RO1GM 14883-02	BIO	27,367
KRASNE, FRANKLIN B	HABITUATION IN THE ESCAPE REFLEX	RO1NB 08108-01	NP	30,985
KRUGER, LAWRENCE	VISUAL PROJECTION IN SUBMAMMALIAN VERTEBRATES	RO1NB 04578-05	VIS	35,334
KRUGER, LAWRENCE	COMPARATIVE STUDIES OF SOMATIC AFFERENT PROJECTION	RO1NB 05685-04	NEUB	47,044
LADEFOGED, PETER N	PHYSIOLOGICAL PARAMETERS FOR SYNTHESIZING SPEECH	RO1NB 04595-06	CMS	46,416
LANGER, GLENN A	CONTROL OF MYOCARDIAL CONTRACTILITY	RO1HE 11074-02	PHY	28,620
LASCELLES, JUNE	REGULATION OF HEME AND HEMOPROTEIN SYNTHESIS	RO1AM 11148-02	MBC	20,701
LATIES, GEORGE G	METABOLIC REGULATION IN PLANT TISSUES	RO1AM 06027-05	BIO	33,863
LATTA, HARRISON	RENAL PATHOLOGY STUDIED WITH ELECTRON MICROSCOPY	RO1AM 06074-11	PTHB	71,349
LEWIS, HARLAN	BIOMEDICAL SCIENCES SUPPORT	S05FR 07009-03	NSS	116,412
LIEBESKIND, JOHN C	BEHAVIORAL AND ELECTROPHYSIOLOGICAL STUDIES OF PAIN	RO1NB 07628-02	EXP	22,065
LIGHTNER, DAVID A	UROBLIN SYNTHESIS AND CHEMISTRY	RO1AM 11193-02	MCHA	18,912
LINDE, LEONARD M	FLOW AS A DETERMINANT OF PULMONARY VASOCONSTRICTION	RO1HE 11936-01	CVA	29,795
LINDSLEY, DONALD B	TRANSLATIONS IN RUSSIAN NEUROPHYSIOLOGY	RO1LM 00576-01	BCM	45,000
LOLLEY, RICHARD N	MATURATION OF METABOLISM IN NORMAL & DYSTROPHIC RETINA	RO1NB 07729-01	VIS	12,759
LOMAX, PETER	THE NEUROHUMORAL REGULATION OF THE PLASMA PROTEINS	RO1NB 05402-03	NEUA	21,847
MALONEY, JAMES V, JR	UCLA INTERSCIENCE RESEARCH PROJECT	PO1GM 13242-03	GMP	117,948
MALONEY, JAMES V, JR	EXTRACELLULAR FLUID VOLUME IN SURGICAL TRAUMA	RO1GM 15320-01	SCYB	21,880
MALONEY, JAMES V, JR	DEVELOPMENT OF A NON-POLARIZING BLOOD OXYGENATOR	RO1HE 02812-12	SCYA	42,324
MARKHAM, CHARLES H	CENTRAL VESTIBULAR MECHANISMS	RO1NB 06658-03	NEUA	28,466
MARTINEZ, RAFAEL J	METHYLATION OF LYSINE IN SALMONELLA FLAGELLIN	RO1CA 10624-01	PC	30,505
MAXWELL, DAVID S	MORPHOLOGICAL ASPECTS OF NEURONAL INJURY	RO1NB 06594-03	NEUB	33,486
MAXWELL, MORTON H	UNILATERAL RENAL HYPERTENSION	RO1HE 03670-11	CVB	86,938
MAXWELL, MORTON H	COOPERATIVE STUDY OF RENOVASCULAR HYPERTENSION	RO1HE 07011-06	SRC	61,230
MC KEE, RALPH W	BIOCHEMICAL STUDIES ON ASCITES CANCER CELLS	RO1CA 02006-15	MET	40,598
MEAD, JAMES F	CHEMISTRY AND METABOLISM OF LIPIDS IN DISEASE STATES	RO1HE 04120-10	MET	44,237
MELLINKOFF, SHERMAN M	GENERAL CLINICAL RESEARCH CENTER	MO1FR 00238-03	CLR	347,837
MELLINKOFF, SHERMAN M	GENERAL RESEARCH SUPPORT GRANT	S01FR 05354-07	NSS	419,519
MENKES, JOHN H	METABOLIC DISEASES OF THE BRAIN	RO1NB 06938-03	NEUB	77,758
MOMMAERTS, WILFRIED F	MOLECULAR, CELLULAR & PHYSIOLOGICAL INVESTIGATIONS	PO1HE 11351-02	HEPA	380,666
MOMMAERTS, WILFRIED F	PHYSIOLOGICAL STUDIES BY MEANS OF ELECTRON MICROSCOPY	RO1HE 10895-02	MBY	1,400
MORRIS, RICHARD T	THE EVOLUTION OF THE PROFESSIONAL IN DENTISTRY	RO1DH 00019-06	EDC	16,140
NEERHOUT, ROBERT C	ERYTHROCYTE STROMAL LIPIDS IN THE NEONATE	RO1HD 02124-02	HEM	27,456
NERLICH, DONALD P	THE REGULATION OF RNA SYNTHESIS IN ESCHERICHIA COLI	RO1GM 15381-01	MBC	31,786
NIKIFORUK, GORDON	ORGANIC COMPONENTS OF DEVELOPING ENAMEL	RO1DE 02284-04	DEN	26,288
NOBEL, PARK S	ENERGY-DEPENDENT ION TRANSPORT OF CHLOROPLASTS	RO1GM 15183-01	MBY	33,009
NORRIS, KENNETH S	STUDIES OF SOUND PRODUCTION	RO1NB 05427-04	CMS	47,229
NOVIN, DONALD	STUDIES OF HUNGER, THIRST, AND WATER METABOLISM	RO1NB 07687-01	EXP	27,313
NYC, JOSEPH F	LIPID ABERRATIONS IN MUTANT STRAINS OF NEUROSPORA	RO1GM 10935-06	PC	19,203
OLDENDORF, WILLIAM H	CLINICAL MEASUREMENT OF BRAIN RADIOISOTOPE UPTAKE	RO1NB 04745-04A1	NEUA	7,999
OLSEN, C ROBERT	IN VITRO STUDY OF DISEASED HUMAN AIRWAYS	RO1GM 12915-03	CVB	14,495
PARDUCCI, ALLEN	THE IDENTIFICATION OF SIMPLE PERCEPTUAL STIMULI	RO1HD 00923-07	NP	18,160
PARMELEE, ARTHUR H	SLEEPING AND WAKING STATES IN PREMATURE INFANTS	RO1HD 00351-06S1	OBR	10,153
PEARCE, MORTON L	EVOLUTION OF HYPERTENSIVE VASCULAR DISEASE	RO1HE 08931-05	VIS	45,727
PEARSON, CARL M	CLINICAL PHARMACOLOGY RHEUMATIC AND MUSCULAR DISEASES	PO1GM 15759-02	PTR	496,801
PEARSON, CARL M	STUDIES IN ADJUVANT-INDUCED ARTHRITIS	RO1AM 11623-02	GMA	46,901
PEASE, DANIEL C	ELECTRON MICROSCOPY OF VASCULAR TISSUES	RO1HE 01770-17	CBY	31,517
PEASE, DANIEL C	NEUROANATOMICAL INVESTIGATIONS BY ELECTRON MICROSCOPY	RO1NB 00284-15	MBY	37,436
PETER, JAMES B	STUDIES OF DEVELOPMENT OF CHILDHOOD DYSTROPHY	RO1HD 02584-03	BIO	20,185
PETER, JAMES B	MUSCLE REACTION TO EXERTION IN RECURRENT RHABDOMYOLYSIS	RO1NB 07587-01	MET	32,555
PETTIT, THOMAS H	HYPERSENSITIVITY OF HERPES KERATITIS	RO1NB 07724-01	VIS	47,087

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INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRG	DOLLARS
CALIFORNIA—(CON.)				
PICKETT, M JOHN	STUDIES ON CELLULAR IMMUNITY	RO1AI 07736-02	BM	9,905
PIERCE, JOHN G	PURIFICATION AND CHEMISTRY OF PROTEINS AND HORMONES	RO1CA 02290-15	PC	53,929
RAY, DAN S	REPLICATION OF THE MALE-SPECIFIC BACTERIOPHAGE M13	RO1AI 07717-02	VR	28,077
RILEY, RICHARD F	BIOCHEMISTRY AND PHYSIOLOGY OF C-REACTIVE PROTEIN	RO1HE 06512-11	ALY	35,266
ROBERTS, CLARA S	MECHANISMS OF STEROID HORMONE ACTION AND INTERACTION	RO1CA 01488-17	END	44,539
ROBERTS, SIDNEY	REGULATION OF CEREBRAL PROTEIN SYNTHESIS	RO1NB 07869-04	NEUB	73,406
ROMIG, WILLIAM R	UV SENSITIVITY AND TRANSFORMABILITY OF B SUBTILIS	RO1AI 07317-03	BM	33,902
ROSE, AUGUSTUS S	HISTOCHEMISTRY IN NEUROLOGICAL DISEASE	RO1NB 05688-04	NEUB	33,165
ROSE, AUGUSTUS S	COOPERATIVE STUDY OF ACTH THERAPY IN MULTIPLE SCLEROSIS	RO1NB 05845-04	SRC	58,341
ROSS, GORDON	EFFECTS OF ADRENERGIC AGENTS ON SPLANCHNIC BLOOD FLOW	RO1HE 10626-01A1	PHRA	34,428
RUBINI, MILTON E	TRANSPERITONEAL KINETICS DURING CHRONIC DIALYSIS	RO1AM 08642-02S1	GMA	4,489
RUBINSTEIN, MORTON K	CONTROL, PSYCHOPHARMACOLOGY AND CHEMISTRY OF GABA-T	RO1NB 06920-02	PC	26,227
SAUERLAND, EBERHARDT K	FOREBRAIN MECHANISMS FOR REFLEX INHIBITION	RO1NB 06819-02	NEUA	14,820
SAWYER, CHARLES H	CENTRAL NERVOUS CONTROL OF PITUITARY-ADRENAL FUNCTION	RO1AM 08468-05	END	39,334
SAWYER, CHARLES H	RHINENCEPHALON, NEUROENDOCRINE FUNCTION AND BEHAVIOR	RO1NB 01162-11S1	NEUA	5,016
SAWYER, CHARLES H	RHINENCEPHALON, NEUROENDOCRINE FUNCTION AND BEHAVIOR	RO1NB 01162-12	NEUB	53,335
SCHAIN, RICHARD J	FACTORS AFFECTING POSTNATAL BRAIN PROTEIN METABOLISM	RO1NB 07691-01	HED	25,519
SCHIEBEL, ARNOLD B	MATURATION OF NEUROPIIL AND BEHAVIOR IN THE NEWBORN	RO1HD 00972-04	EXP	16,227
SCHIEBEL, ARNOLD B	NEUROPIIL AREAS OF THE CENTRAL NERVOUS SYSTEM	RO1NB 01063-12	NEUA	46,649
SCHERBAUM, OTTO H	ROLE OF NUCLEIC ACIDS IN SYNCHRONOUS CELL DIVISION	RO1GM 06461-09	MBY	30,617
SCHLAG, JEAN D	CONDITIONING OF PYRAMIDAL ACTIVITY BY SENSORY INFLOW	RO1NB 04955-05	NEUA	16,063
SCHOTZ, MICHAEL C	LIPID ACCUMULATION IN LIVER INJURY	RO1AM 04706-08	MET	30,010
SCHUMAKER, VERNE N	MACROMOLECULES OF CIRCULATORY AND GENETIC IMPORTANCE	RO1GM 13914-03	PC	51,117
SCHWARZ, KLAUS	ORGANIC SELENIUM COMPOUNDS IN NUTRITION AND DISEASE	RO1AM 08669-05	NTN	62,765
SCHWARZ, KLAUS	CHEMICAL IDENTITY AND NUTRITIONAL EFFECTS OF FACTOR G	RO1AM 11291-02	NTN	54,935
SEGUNDO, JOSE P	FUNCTIONAL SIGNIFICANCE OF SPIKE DISCHARGE PARAMETERS	RO1NB 05264-04	NEUB	30,742
SELLE, WILBUR A	RESONANT FREQUENCY APPLICATION TO OSTEOPOROSIS	RO1AM 11151-02	GMB	16,666
SELLERS, MARGRET I	THE BIOGENESIS OF MYCOBACTERIA	RO1AI 08252-01	BM	31,493
SERCARZ, ELI E	THE TOPOGRAPHY OF IMMUNE RECOGNITION	RO1AI 08198-01	ALY	27,657
SIMMER, HANS H	FETAL STEROIDS AS PRECURSORS OF PLACENTAL ESTROGENS	RO1HD 00722-04	END	59,127
SIMMONS, DANIEL H	ACID-BASE EFFECT OF RESPIRATION & CIRCULATION CHANGES	RO1HE 11132-02	CVA	33,831
SIMMONS, DANIEL H	CARDIOVASCULAR EFFECTS OF ACID-BASE DISTURBANCES	RO1HE 11151-01S1	PHY	7,048
SJOSTRAND, FRITJOF S	DEVELOPMENT AND ORGANIZATION OF VISUAL PATHWAYS	RO1NB 02889-08	VIS	94,735
SMITH, EMIL L	STRUCTURE AND PROPERTIES OF PROTEINS AND ENZYMES	RO1GM 11061-06	PC	215,845
SMITH, ROBERTS A	ENZYMIC TRANSFERS INVOLVING PHOSPHATES AND NUCLEOTIDES	RO1GM 13407-03	BIO	39,521
SOGNAES, REIDAR F	GENERAL RESEARCH SUPPORT GRANT	SO1FR 05304-07	NSS	28,719
SONNENSCHNEN, RALPH R	CONTROL OF PERIPHERAL CIRCULATION	RO1HE 05157-07S1	PHY	6,825
SONNENSCHNEN, RALPH R	CONTROL OF PERIPHERAL CIRCULATION	RO1HE 05157-08	PHY	45,458
STECKEL, RICHARD J	RADIOPROTECTION OF AN ORGAN USING ARTERIAL CATHETER	RO1CA 10539-01	RAD	11,650
STEIN, JUSTIN J	COOPERATIVE LUNG CANCER STUDY	RO1CA 07414-05	RAD	6,766
STERN, ELIZABETH	EFFECTS OF STEROID CONTRACEPTION ON THE OVARY	RO1HD 02537-02	REB	12,951
STERNBERG, THOMAS H	HOST-PARASITE RELATIONSHIPS IN FUNGUS INFECTIONS	PO1AI 06048-04	BM	103,376
STEVENS, JACK G	A STUDY OF IBR VIRUS REPLICATION	RO1AI 06246-04S1	VR	6,174
STRAATSMAN, BRADLEY R	RETINAL MORPHOLOGY FUNCTION AND CLINICAL CHARACTERISTICS	PO1NB 06592-02	NBPB	350,472
STRAATSMAN, BRADLEY R	VIRUS AND NEMATODE INFECTIONS OF THE EYE	RO1NB 04855-05	VR	19,512
STRAATSMAN, BRADLEY R	ACCOMMODATIVE ASTIGMATISM - PATTERN ACUITY RELATIONS	RO1NB 06307-02	VIS	31,239
STURGEON, PHILLIP	AUTOMATION OF HEMATOLOGICAL METHODS	RO1AM 10722-02	HEM	49,520
STURGEON, PHILLIP	VARIANTS OF BLOOD GROUP ANTIGENS AND ANTIBODIES	RO1HE 11160-02	HEM	44,577
SUDMEIER, JAMES L	NMR STUDIES OF METAL-BINDING IN CHELATES	RO1AM 10889-02	MCHB	18,892
SWENDESID, MARIAN E	SINGLE AMINO ACID DEFICIENCIES IN AGING	RO1HD 02888-02	NTN	31,478
TARJAN, GEORGE	RESEARCH IN MENTAL RETARDATION	PO1HD 02712-02	HDP	157,325
TAYLOR, ANNA N	BRAINSTEM RETICULAR FORMATION FUNCTION IN STRESS	RO1NB 07884-01	NEUA	20,263
TAYLOR, DERMOT B	MODE OF ACTION OF NEUROMUSCULAR BLOCKING AGENTS	RO1NB 00738-14	PHRA	38,952
TEN HOUTEN, WARREN D	SOCIALIZATION AND THE NEGRO AMERICAN FAMILY	RO1HD 02405-02	CPR	43,948
TERASAKI, PAUL I	STUDIES OF HUMAN LYMPHOCYTE ANTIGENS	RO1AI 04444-07	IMB	45,750
TERASAKI, PAUL I	HOMOTRANSPLANTABILITY BY HOST ALTERATION AND MATCHING	RO1AM 02375-10	IMB	22,680
THOMAS, JAMES P	SPATIAL INTEGRATION AND PERCEIVED BRIGHTNESS	RO1NB 07249-02	VIS	14,442
TISHKOFF, GARSON H	CHEMISTRY AND METABOLISM OF THE BLOOD CLOTTING FACTORS	RO1HE 06021-08	HEM	35,778
URIST, MARSHALL R	CHEMICAL MORPHOLOGY OF NUCLEATION IN TEETH AND BONE	PO1DE 02103-04S2	DEP	35,000
VALENTINE, WILLIAM N	ENZYMATIC AND BIOCHEMICAL STUDIES ON BLOOD CELLS	RO1HE 01069-16	HEM	65,193
VERNIER, ROBERT L	MECHANISMS OF RENAL VASCULAR DISEASE IN CHILDREN	RO1AM 11017-02	GMA	38,928
VOGE, MARIETTA	EMBRYOGENESIS AND DIFFERENTIATION OF CESTODES	RO1AI 05835-04	TMP	28,568
VOGE, MARIETTA	DIFFERENTIATION IN VITRO OF MESOCYSTOID CESTODES	RO1AI 07332-03	TMP	26,444
WALFORD, ROY L	INDIVIDUAL-SPECIFIC ANTIGENS OF HUMAN LEUKOCYTES	RO1AI 05403-06	IMB	48,126
WALFORD, ROY L	THE ROLE OF IMMUNE PHENOMENON OF AGING	RO1HD 00534-08	IMB	61,035
WALTER, HARRY	DIFFERENTIATION OF YOUNG AND OLD PROTEIN MOLECULES	RO1HE 08304-05	PC	24,479
WALTS, LEONARD F	A STUDY OF SOME CLINICAL EFFECTS OF MUSCLE RELAXANTS	RO1GM 14588-02	PHRA	3,729
WARD, PAUL H	SURGICAL STUDIES OF THE HEAD AND NECK	RO1CA 04138-09S1	SCYA	16,808
WARD, PAUL H	EXPERIMENTAL STUDIES ON VESTIBULAR MECHANISMS	RO1NB 08335-01	CMS	29,986
WEBBER, MILO M	ALLOGRAFT SURVIVAL HEAVILY RADIOLABELED ANTIGEN	RO1AI 07411-02	IMB	17,630
WEIMER, HENRY E	PROTEIN IN RAT SERUM	RO1AM 08717-04	ALY	21,424
WEST, CHARLES A	ENZYMIC MECHANISMS OF STEROLS AND RELATED COMPOUNDS	RO1GM 07065-08	BIO	47,525
WILDMAN, SAMUEL G	REPRODUCTION AND MUTATION OF TOBACCO MOSAIC VIRUS	RO1AI 00536-14S1	VR	6,929

TABLE 2—RESEARCH GRANTS, BY AREA, INSTITUTION, AND PRINCIPAL INVESTIGATOR

INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRG	DOLLARS
CALIFORNIA—(CON.)				
WILDMAN, SAMUEL G	REPRODUCTION AND MUTATION OF TOBACCO MOSAIC VIRUS	RO1AI 00536-15	VR	47,228
WOLFGAM, FREDERICK J	PURIFICATION AND LOCALIZATION OF MYELIN PROTEINS	RO1NB 05997-04	NEUB	46,970
WOLFGAM, FREDERICK J	ISOLATION AND IDENTIFICATION OF BRAIN AMINES	RO1NB 07709-01	NEUB	20,214
YOUNG, RICHARD W	HISTOPHYSICAL AND HISTOCHEMICAL STUDIES ON THE EYE	RO1NB 03807-07	VIS	26,697
YUWILER, ARTHUR	BIOCHEMICAL SYSTEMS IN EXPERIMENTAL MENTAL DEFICIENCY	RO1HD 01058-03S1	NEUA	8,976
ZABIN, IRVING	STUDIES OF AN INDUCIBLE BACTERIAL ENZYME	RO1AI 04181-07	GEN	110,202
ZAMENHOF, STEPHEN	STUDY OF THE EFFECTS OF ALKYLATION ON DNA	RO1CA 08128-04	PC	17,751
ZAMENHOF, STEPHEN	STUDY OF THE CHEMISTRY OF THE GENE	RO1GM 15882-05	GEN	19,107
ZAMENHOF, STEPHEN	PRENATAL STIMULATION OF CORTICAL-NEURON PROLIFERATION	RO1HD 01909-03	NEUA	27,079
ZELDIS, LOUIS J	PROTEIN SYNTHESIS REGULATION IN GROWTH AND INJURY	RO1HD 02562-03	PTHB	36,117
INSTITUTION TOTAL 236	12,644,076			
CEDARS-SINAI MEDICAL CENTER				
BRUBAKER, CHARLES A	TREATMENT OF LEUKEMIA AND CANCER IN CHILDREN	R10CA 10259-02	SRC	20,354
CAREN, RAYMOND	PANCREATIC ALPHA CELL FUNCTION AND LIPID METABOLISM	RO1HE 07928-06S1	MET	2,191
CARTON, CHARLES A	HEMODYNAMIC STUDY OF CEREBRAL VESSEL RECONSTRUCTION	RO1HE 10909-02S1	NEUA	3,628
CARTON, CHARLES A	HEMODYNAMIC STUDY OF CEREBRAL VESSEL RECONSTRUCTION	RO1HE 10909-03	NEUA	33,908
CORDAY, ELIOT	EVALUATION OF DRUG THERAPY FOR CARDIAC ARRHYTHMIAS	RO1HE 10841-02	PHRB	45,094
HIATT, NATHAN	MECHANISM OF TERRAMYCIN EFFECT IN PANCREATECTOMY	RO1AM 10735-02	MET	26,093
KAGAN, BENJAMIN M	STUDY OF STAPHYLOCOCCAL L FORMS IN CYSTIC FIBROSIS	RO1AI 07790-02	BM	25,775
KAGAN, BENJAMIN M	STUDIES OF BODY WATER	RO1HD 00381-09S1	HED	13,200
KATZ, JOSEPH	GLUCOSE AND PROPIONATE METABOLISM	RO1AM 03682-09	PC	30,000
KATZ, JOSEPH	PATHWAYS OF HYDROGEN TRANSFER IN BIOSYNTHESIS	RO1AM 09752-03	PC	23,640
KATZ, JOSEPH	PATHWAYS OF GLUCOSE METABOLISM AND HYDROGEN TRANSPORT	RO1AM 12604-01	PC	71,115
KLEEMAN, CHARLES R	PARATHYROIDS AND METABOLISM OF CALCIUM AND PHOSPHORUS	RO1AM 06087-05S2	GMB	7,255
KLEEMAN, CHARLES R	HOMEOSTATIC REGULATION IN CHRONIC RENAL DISEASE	RO1AM 07190-05	GMB	37,161
KLEEMAN, CHARLES R	ROLE OF ADH AND OXYTOCIN IN IMPAIRED H2O DIURESIS	RO1AM 12639-01	GMB	28,850
KLEEMAN, CHARLES R	DIGOXIN METABOLISM AND SODIUM TRANSPORT IN UREMIA	RO1HE 11244-01	CVA	27,747
KLEEMAN, CHARLES R	BLOOD BRAIN AND CSF BARRIER IN NORMAL AND DISEASED STATE	RO1NB 05905-02S3	NEUA	9,422
KLEEMAN, CHARLES R	BLOOD BRAIN & C S F BARRIER IN NORMAL & DISEASED STATE	RO1NB 05905-04	NEUA	54,132
LANCHANTIN, GERARD F	MOLECULAR CHEMISTRY OF HUMAN BLOOD COAGULATION	RO1HE 07703-06	HEM	18,140
LANCHANTIN, GERARD F	SUBUNITS FORMED DURING HUMAN PROTHROMBIN ACTIVATION	RO1HE 09939-03	HEM	16,117
LEVY, STEVEN E	VENTILATION-PERFUSION EFFECTS OF PULMONARY EMBOLISM	RO1HE 10525-03	PTHA	16,264
LEVY, STEVEN E	HEMODYNAMIC EFFECTS OF PULMONARY EMBOLISM	RO1HE 11066-02	CVA	21,223
MAKOFF, DWIGHT	ADAPTATION TO CHRONIC HYPERCAPNIA IN KT DEPLETION	RO1HE 11502-01	CVB	24,697
MAXWELL, MORTON H	KINETICS OF PERITONEAL DIALYSIS	RO1AM 09743-03	SGYA	30,901
MAXWELL, MORTON H	COOPERATIVE STUDY OF RENOVASCULAR HYPERTENSION	RO1HE 10356-03	SRC	190,191
PRINZMETAL, MYRON	CORONARY ARTERY DISEASE	RO1HE 01267-15S1	CVA	4,734
ROSENFELD, SHELDON	PHYSIOLOGICAL STUDIES ON THE ISOLATED PERFUSED KIDNEY	RO1HE 04868-09	PHY	43,406
ROSENFELD, SHELDON	ROLE OF RENAL NERVES IN EXPERIMENTAL HYPERTENSION	RO1HE 09349-02S1	CVA	8,986
RUBENSTEIN, PAUL	GENERAL RESEARCH SUPPORT GRANT	SO1FR 05468-06	NSS	187,656
SAMBHI, MOHINDER P	DOUBLE ISOTOPE DERIVATIVE METHOD FOR RENIN ANGIOTENSIN	RO1AM 12574-01	GMB	23,443
SAPSE, ALFRED T	IMMUNOLOGICAL PATTERN OF TEARS IN OCULAR DISEASES	RO1NB 06619-02S1	VIS	15,415
SAPSE, ALFRED T	IMMUNOLOGICAL PATTERN OF TEARS IN OCULAR DISEASES	RO1NB 06619-03	VIS	28,417
SARNAT, BERNARD G	INTERRELATION OF OPTICAL AND ORBITAL GROWTH	RO1HD 00179-05	DEN	17,527
SELLERS, ALVIN L	THE METABOLISM AND DISTRIBUTION OF PLASMA ALBUMIN	RO1AM 07633-04S1	MET	1,967
SELLERS, ALVIN L	THE METABOLISM AND DISTRIBUTION OF PLASMA ALBUMIN	RO1AM 07633-05	MET	41,039
STONE, WILLIAM, JR	SURGICAL POLYMERS - STANDARDIZATION AND SYNTHESIS	RO1NB 06078-04	VIS	150,021
SWAN, HAROLD J	VENTRICULAR FUNCTION IN THE HYPERTROPHIED HEART	RO1HE 10382-04	SGYA	52,993
VAN DE VELDE, ROBERT L	MYOID CELLS OF THYMUS	RO1NB 07084-02	CBY	15,150
VILLAMIL, MARIO F	ELECTROLYTE DISTRIBUTION & TRANSPORT IN HYPERTENSION	RO1HE 12081-D1	CVB	23,217
INSTITUTION TOTAL 38	1,391,069			
CHILDREN'S HOSPITAL OF LOS ANGELES				
BERGREN, WILLIAM R	PATHWAYS IN GALACTOSE METABOLISM	RO1AM 04135-09	MET	38,038
BERGREN, WILLIAM R	ERYTHROCYTE PROTEINS IN HEREDITARY BLOOD DISORDERS	RO1HE 05917-08	HEM	25,827
DONNELL, GEORGE N	BIOCHEMICAL DISTURBANCES IN DOWN'S SYNDROME	RO1HD 00800-05	MET	33,592
HAMMOND, DENMAN	PURIFICATION OF HUMAN ERYTHROPOIETIN FOR RESEARCH USE	RO1HE 10880-02	HEM	34,012
HAMMOND, DENMAN	CHILDRENS CANCER STUDY GROUP A	R10CA 02649-12	SRC	156,406
HAMMOND, G DENMAN	ERYTHROPOIETIN METABOLISM IN HYPOPLASTIC ANEMIA	RO1AM 04D48-09	HEM	46,431
HAYS, DANIEL M	CIRRHOTIC LIVER GROWTH IN VITRO AFTER SERIAL EXCISION	RO1AM 08879-03S1	SGYA	4,888
HAYS, DANIEL M	LIVER REGROWTH AFTER EXCISION REGULATING MECHANISMS	RO1AM 08879-04	SGYA	34,186
KAPLAN, SOLOMON A	GROWTH HORMONE AND NUCLEOLAR RNA	RO1HD 02576-02S1	MET	2,250
KARON, MYRON R	MOLECULAR PHARMACOLOGY OF THE CELL CYCLE	RO1CA 11050-01	PHRB	73,569
KOCH, RICHARD	MENTAL DEVELOPMENT OF GALACTOSEMIC CHILDREN	RO1AM 04837-08	NTN	20,725
LANDING, BENJAMIN H	HISTOCHEMICAL INVESTIGATION OF CELLULAR COMPONENTS	RO1AM 07553-05	PTHB	15,150
MC ALLISTER, ROBERT M	VIRUS ETIOLOGY OF MALIGNANCY IN CHILDREN	RO1CA 04865-08S1	VR	18,533
MELNYK, JOHN	STUDY OF MEIOSIS IN RELATION TO MENTAL RETARDATION	RO1HD 01343-04	GEN	29,023
NEUSTEIN, HARRY B	PROTEIN METABOLISM IN RENAL PROXIMAL TUBULES	RO1AM 11373-02	PTHA	35,480
NICOLSON, MARGERY O	SEQUENCE COMPLEMENTARITY OF TUMOR RNA AND LIVER DNA	RO1CA 08771-03	GEN	31,934
SHAW, KENNETH N	BIOCHEMICAL AND MOLECULAR BASIS OF MENTAL DISEASE	RO1HD 01594-04	MET	94,327
STRAUSS, JOSE	CARDIOVASCULAR-RENAL FLOW AND OXYGENATION	RO1HE 09351-03S1	CVB	9,840
WARD, ROBERT	GENERAL CLINICAL RESEARCH CENTER FOR CHILDREN	MO1FR 00086-06	CLR	237,582
WARD, ROBERT	SEARCH FOR ETIOLOGY OF INFECTIONS OF UNKNOWN ORIGIN	RO1AI 03079-09	VR	49,749

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INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRG	DOLLARS
CALIFORNIA—(CON.)				
WARD, ROBERT	GENERAL RESEARCH SUPPORT GRANT	S01FR 05469-06	NSS	129,509
INSTITUTION TOTAL	21 1,121,051			
ESTELLE DOHENY EYE FOUNDATION				
IRVINE, A RAY, JR	EFFECT OF BLOOD AND PRESSURE ON CULTURED OCULAR TISSUES	R01NB 04501-06	VIS	65,270
INSTITUTION TOTAL	1 65,270			
IMMACULATE HEART COLLEGE				
CHU, EDITH J	INTERMEDIATES IN PORPHYRIN METABOLISM	R01AM 01000-17S2	MBC	5,916
INSTITUTION TOTAL	1 5,916			
INSTITUTE OF LARYNGOLOGY AND VOICE DISORDERS				
VON LEDEN, HANS V	COMPREHENSIVE ANALYSIS OF LARYNGEAL FUNCTION	R01NB 06670-04	CMS	80,387
INSTITUTION TOTAL	1 80,387			
KAISER FOUNDATION HOSPITALS -KAISER FOUNDATION RESEARCH INSTITUTE				
BRAUNWALD, JACK	WESTERN CONFERENCE CANCER CHEMOTHERAPY TRIALS	R10CA 07586-05	SRC	8,370
INSTITUTION TOTAL	1 8,370			
LOS ANGELES COUNTY DEPARTMENT OF HOSPITALS -- LOS ANGELES COUNTY--UNIV. OF S. CALIF. MEDICAL CENTER				
CONNOLLY, JOHN E	MECHANICAL CIRCULATORY SUPPORT IN ACUTE HEART FAILURE	R01HE 10891-03	SGYB	20,652
EVANS, WILLIAM D	GENERAL RESEARCH SUPPORT GRANT	S01FR 05466-02	NSS	73,100
FRASHER, WALLACE G, JR	BLOOD FLOW IN SMALL TUBES AND THE MICROCIRCULATION	R01HE 11153-02	CVA	27,452
HODGMAN, JOAN E	BACTERIURIA IN THE PREMATURE INFANT	R01HD 03382-01	BM	52,014
IVLER, DANIEL	INVESTIGATIONS OF NEISSERIA MENINGITIDIS	R01AI 08011-01	ALY	35,061
SOBIN, SIDNEY S	VASCULAR PHYSIOLOGY	R01HE 11152-02	CVA	59,020
WEHRLE, PAUL F	PATHOGENICITY OF ENTEROVIRUSES	R01AI 08134-02	VR	44,702
INSTITUTION TOTAL	7 312,001			
LOS ANGELES FOUNDATION OF OTOLOGY				
HOUSE, WILLIAM F	HISTOPATHOLOGY AND CLINICAL FINDINGS IN OTOSCLEROSIS	R01NB 06109-02S1	SSS	5,956
HOUSE, WILLIAM F	HISTOPATHOLOGY AND CLINICAL FINDINGS IN OTOSCLEROSIS	R01NB 06109-03	SSS	51,001
INSTITUTION TOTAL	2 56,957			
SOUTHERN CALIFORNIA UNIVERSITY OF				
ALADJEM, FREDERICK	STUDY OF THE ANTIGEN-ANTIBODY REACTION	R01AI 03222-09	ALY	23,900
ALEXANDER, NATALIE	BARORECEPTOR REFLEX MECHANISM IN HYPERTENSION	R01HE 05543-08	PHY	19,441
APPLEMAN, M MICHAEL	CYCLIC NUCLEOTIDES AS MEDIATORS OF METABOLIC CONTROL	R01AM 12684-01	BIO	34,137
BAKER, RICHARD F	ULTRASTRUCTURE OF BIOLOGICAL MEMBRANES	R01HE 07976-06	MBY	23,330
BARBOUR, BENJAMIN H	ANGIOTENSIN AND ALDOSTERONE IN HYPERTENSION AND EDEMA	R01HE 08110-06	END	19,160
BATEMAN, JOSEPH	WESTERN CONFERENCE CANCER CHEMOTHERAPY TRIALS	R10CA 05186-08	SRC	86,872
BAVETTA, LUCIEN A	STUDY OF DEVELOPING RAT TOOTH BUDS	R01DE 01177-09	DEN	20,449
BAVETTA, LUCIEN A	BIOCHEMICAL STUDIES ON THE PERIODONTIUM IN RAT & MAN	R01DE 02471-02S1	DEN	2,135
BAVETTA, LUCIEN A	BIOCHEMICAL STUDIES ON THE PERIODONTIUM IN RAT & MAN	R01DE 02471-03	DEN	30,263
BAVETTA, LUCIEN A	EPITHELIO-MESENCHYMAL INTERACTIONS DURING ODONTOGENESIS	R01DE 02768-01	DEN	27,096
BEIGELMAN, PAUL M	ADIPOSE TISSUE METABOLISM IN DIABETES MELLITUS	R01AM 06510-05S1	MET	10,224
BEIGELMAN, PAUL M	ELECTRICAL POTENTIAL AND METABOLISM OF ADIPOSE TISSUE	R01AM 06510-06A1	MET	14,130
BELLMAN, RICHARD E	MATHEMATICAL STUDIES OF BIOLOGICAL SYSTEMS	R01GM 14633-02	COM	200,530
BERMAN, DAVID A	POSITIVE INOTROPIC ACTION OF METABOLIC INHIBITORS	R01HE 01999-13	PHRA	19,249
BERNICK, SOL	BLOOD, LYMPH, NERVE SUPPLY PERIODONTIUM AND T.M. JOINT	R01DE 01033-09	DEN	17,209
BERNICK, SOL	DENTAL STRUCTURE AS INFLUENCED BY HORMONAL IMBALANCE	R01HD 00185-05	DEN	19,192
BETHUNE, JOHN E	PARATHYROID HORMONE ASSAY AND CALCIUM METABOLISM	R01AM 06148-05	GMB	25,403
BICHSEL, HANS	PROTON ENERGY LOSS MEASUREMENTS	R01CA 08150-04	RAD	51,310
BIEL, WILLIAM C	BIOMEDICAL SCIENCES SUPPORT GRANT	S05FR 07012-02	NSS	48,430
BILS, ROBERT F	ULTRASTRUCTURE AND TURNOVER OF ALVEOLAR CELLS IN LUNG	R01HE 10931-02	PTHB	9,549
BINGGELI, RICHARD L	NEUROPHYSIOLOGICAL STUDIES OF THE VISUAL SYSTEM	R01NB 05891-03	VIS	10,778
BLANKENHORN, DAVID H	CORRELATED STUDIES OF ATHEROSCLEROSIS	R01HE 07197-06	CVB	131,587
BRODIE, ARNOLD F	MECHANISMS OF OXIDATIVE ENERGY GENERATION IN BACTERIA	R01AI 05637-06	PC	83,002
BRUNJES, SHANNON D	AMINE METABOLISM IN ESSENTIAL HYPERTENSION	R01HE 09275-03	PHRA	20,581
CHEW, ROBERT M	ECOLOGY OF MOSQUITOES OF ARID SOUTHEASTERN CALIFORNIA	R01AI 08284-01A1	TMP	46,977
DE QUATTRO, VINCENT L	THE ROLE OF THE CATECHOLAMINES IN HYPERTENSION	R01HE 10840-02	PHRA	18,012
DEMOPOULOS, HARRY B	SUBCELLULAR & MOLECULAR STUDY OF MALIGNANT MELANOMA	R01CA 10347-01	PTHB	17,090
DUBOIS, EDMUND L	NZB NZW AS MODEL OF SYSTEMIC LUPUS ERYTHEMATOSUS	R01AM 09544-03	PTHA	31,747
DUNN, ARNOLD	HORMONAL REGULATION OF HEPATIC GLUCOSE PRODUCTION	R01AM 07215-05	END	25,418
EGERBERG, ROGER O	GENERAL CLINICAL RESEARCH CENTER	M01FR 00043-08	CLR	354,600
EGERBERG, ROGER O	GENERAL RESEARCH SUPPORT GRANT	S01FR 05356-07	NSS	384,789
ELISON, CHRISTIAN	EFFECTS OF RYANODINE ON MUSCLE PROTEINS	R01HE 10243-03	PHRA	24,607
ERSHOFF, BENJAMIN H	DIETARY FACTORS THAT PREVENT PERIODONTAL DISEASE	R01DE 02582-02	DEN	32,464
FANG, HARRY C	EXTRACRANIAL ARTERIAL OCCLUSION - JOINT STUDY	R01HE 07972-06	SRC	7,170
FANG, HARRY C	STUDIES OF CEREBRAL ARTERIOLES AND CAPILLARIES IN MAN	R01NB 06979-02	NEUA	19,938
FIALA, SILVIO E	THE ROLE OF CARCINOGEN IN NUCLEIC ACID METABOLISM	R01CA 07618-05	PC	27,856
FIFE, THOMAS H	ENZYMATIC AND NON-ENZYMATIC HYDROLYSIS OF ACETALS	R01GM 10613-06	BIO	18,532
FIFE, THOMAS H	THE MECHANISM OF ACTION OF ALPHA-CHYMOTRYPSIN	R01GM 14357-02	BIO	17,231
FLUHARTY, ARVAN L	PATHWAYS OF TETROSE AND TRITRITOL METABOLISM	R01AM 06667-06	MET	21,192
FRIOU, GEORGE J	STUDIES OF LUPUS AND RELATED CONDITIONS	R01AM 09703-04	IMB	31,651

TABLE 2—RESEARCH GRANTS, BY AREA, INSTITUTION, AND PRINCIPAL INVESTIGATOR

INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRG	DOLLARS
CALIFORNIA—(CON.)				
FUKUYAMA, THOMAS T	ANTIBIOTICS AS ALLOSTERIC INHIBITORS	RO1AI 07583-02	MBC	20,145
FURSTMAN, LAWRENCE L	EFFECT OF X IRRADIATION UPON MANDIBULAR CONDYLE	RO1DE 01810-06	DEN	11,957
GORDON, IRVING	STUDIES OF MEASLES VIRUS OR OTHER VIRUS INFECTIONS	RO1AI 03874-08	VR	45,660
GRODINS, FRED S	REGULATION OF CARDIAC OUTPUT	RO1HE 11915-01	PHY	17,116
HARDING, BOYD W	ELECTRON AND HYDROGEN CARRIERS IN ADRENAL TISSUE	RO1CA 07057-06	END	23,330
HAVERBACK, BERNARD J	BASIC GASTROINTESTINAL INVESTIGATIONS	PO1AM 08293-05	AMP	102,000
HAVERBACK, BERNARD J	THE GASTROINTESTINAL TRACT AND AMINE METABOLISM	RO1AM 01992-10	GM	24,128
HAVERBACK, BERNARD J	PROTEOLYTIC ENZYMES IN CYSTIC FIBROSIS	RO1AM 04683-08	GM	27,600
HAYWOOD, L JULIAN	VECTORCARDIOGRAPHIC ANALYSIS OF ATRIAL DEPOLARIZATION	RO1HE 09725-04	CVB	17,672
HOROWITZ, RICHARD E	GERMFREE ANIMAL FACILITY AND RESOURCE	PO6FR 00407-01	AR	174,022
HYMAN, CHESTER	FACTORS INFLUENCING CAPILLARY CIRCULATION	RO1HE 00352-18	PHY	47,851
INGLE, JOHN I	GENERAL RESEARCH SUPPORT GRANT	SO1FR 05303-07	NSS	39,238
JELLIFFE, ROGER W	STUDY OF URINARY DIGITALIS EXCRETION	RO1HE 09428-04	CVB	38,586
JELLIFFE, ROGER W	MYOCARDIAL AND URINARY DIGITALIS IN PATIENTS	RO1HE 11475-01	CVB	36,222
JUNG, RALPH C	RESPIRATORY INFLUENCES ON PERIPHERAL BLOOD FLOW	RO1HE 10207-03	CVB	12,041
KHARASCH, NORMAN	STUDIES OF DISULFIDE MONOXIDES	RO1GM 13963-02	MCHB	24,904
LIEB, MARGARET	MUTATION AND GENE INTERACTION IN BACTERIA AND PHAGE	RO1AI 05367-06	GEN	21,212
LINDSLEY, DAVID F	NONSPECIFIC BRAIN MECHANISMS SUBTHALAMUS	RO1NB 07865-01	NEUA	49,828
LINDSLEY, DAVID F	NONSPECIFIC BRAIN MECHANISM SUBTHALAMUS	RO1NB 07865-02	NEUA	36,869
LOOSLI, CLAYTON G	LUNG TISSUE REACTIONS TO CHEMICAL AND BIOLOGICAL AGENTS	RO1AI 07782-02	PTHB	51,572
LUKES, ROBERT J	MORPHOLOGIC STUDY OF LYMPHOCYTE TRANSFORMATION DEFECTS	RO1AM 09920-03	HEM	33,469
MARMORSTON, JESSIE	COOPERATIVE STUDY OF DRUGS AND CORONARY HEART DISEASE	RO1HE 08798-04	SRC	166,577
MARX, WALTER	STUDIES ON TISSUE HEPARIN	RO1HE 01596-15	MET	34,942
MATIOLI, GASTONE T	DIFFERENTIATION OF ERYTHROBLASTS	RO1HE 10568-03	HEM	62,086
MAZUR, HAROLD	ESTABLISHMENT OF A CANCER HOSPITAL AND RESEARCH INST	RO1CA 10051-02	NSS	74,065
MEHL, JOHN W	CHARACTERIZATION AND FUNCTIONS OF PROTEINS	RO1AM 02609-10	PC	31,388
MONROE, BARBARA G	EM OF STALK AND NEURAL LOBE OF PITUITARY	RO1NB 02321-07	CBY	24,627
MOORE, GEORGE P	STUDIES OF NEURONAL INTERACTION	RO1NB 08207-01	NEUB	19,432
MOREHOUSE, MARGARET G	FACTORS AFFECTING FATTY ACID ABSORPTION	RO1AM 03458-08S1	MET	4,701
MOYED, HARRIS S	MECHANISMS FOR THE REGULATION OF BIOSYNTHESIS	RO1GM 11269-06	PC	58,356
NEDELMAN, CHARLES I	REACTIONS OF ORAL TISSUE TO SILASTICS	RO1DE 02540-02	DEN	6,036
NICOLAIDES, NICHOLAS	ANALYSIS OF THE LIPIDS OF HUMAN SKIN	RO1AM 10010-04	PC	63,231
NICOLOFF, JOHN T	REGULATION OF THYROID HORMONE DEIODINATION IN MAN	RO1AM 11727-01	END	35,820
NIMNI, MARCEL E	COLLAGEN METABOLISM UNDER INFLUENCE OF PENICILLAMINE	RO1AM 10358-02S1	GMA	51,034
NIMNI, MARCEL E	COLLAGEN METABOLISM UNDER INFLUENCE OF PENICILLAMINE	RO1AM 10358-03	GMA	50,177
O BRIEN, JOHN S	THE ROLE OF POLAR LIPIDS IN CARDIOVASCULAR DISEASE	RO1HE 08429-05	HEM	12,426
O BRIEN, JOHN S	COMPOSITION OF BRAIN LIPIDS	RO1NB 06576-03	NEUB	46,139
O BRIEN, RICHARD L	CHEMICAL CARCINOGENS AND NUCLEIC ACID SYNTHESIS	RO1CA 10319-01	PTHB	31,817
PARKER, JOHN W	EFFECT OF MAMMARY CARCINOMA UPON LYMPHOCYTE BEHAVIOR	RO1CA 08654-03	PTHB	19,566
PETERS, ROBERT L	HEPATITIS AFTER CARDIOVASCULAR SURGERY PATHOLOGY	RO1HE 11883-01	SRC	8,936
RAPAPORT, SAMUEL I	RELATIONSHIPS BETWEEN COAGULABILITY AND THROMBOSIS	RO1HE 06128-08	HEM	124,164
REDEKER, ALLAN G	A STUDY OF PORPHYRINS AND PORPHYRIN PRECURSORS	RO1AM 01271-12	MET	15,885
REDEKER, ALLAN G	PREVENTION OF HEPATITIS AFTER CARDIOVASCULAR SURGERY	RO1HE 10231-03	SRC	26,992
REYNOLDS, TELFER B	PLASMA VOLUME AND ALDOSTERONE IN CIRRHOSIS	RO1HE 09316-04	CVB	12,097
RICE, LESLIE I	METABOLISM OF SULFATED LIPIDS	RO1AM 10204-02	MET	17,688
SAMBHI, MOHINDER P	ENZYMATIC DEGRADATION OF ANGIOTENSIN IN HUMAN PLASMA	RO1HE 09142-04	PHRB	22,139
SCHERER, KIRBY V, JR	BRIDGEHEAD REACTIVITY IN CAGE HYDRO- & CHLOROCARBONS	RO1GM 15678-01	MCHA	7,299
SCHNEIR, MICHAEL L	GLYCOPROTEIN BIOSYNTHESIS IN GINGIVAL TISSUE	RO1DE 02808-01	DEN	37,068
SCHNEPP, OTTO O	CIRCULAR DICHROISM STUDIES IN THE VACUUM ULTRAVIOLET	RO1GM 14471-02	BBCA	37,909
STOWELL, ELLERY C	THE MECHANISM OF FORMATION OF DENTAL PLAQUE	RO1DE 02402-02	DEN	10,755
THOMAS, LYELL J, JR	MECHANISM OF ACTION OF CALCIUM IN HEART MUSCLE	RO1HE 02298-12	PHY	13,748
VISSER, DONALD W	NUCLEOSIDE DERIVATIVES AND PYRIMIDINE METABOLISM	RO1CA 02373-13	PHRB	39,430
WEIL, MAX H	OXYGEN DEBT & ANOXIC METABOLITES AS INDICES OF SHOCK	RO1HE 05570-08	CVA	51,454
WEIL, MAX H	AUTOMATIC COLLECTION AND ANALYSIS OF DATA DURING SHOCK	RO1HE 07811-05	COM	155,227
WILSON, MIRIAM G	GROWTH RETARDATION OF HUMAN FETUS	RO1HD 01871-03S1	HED	4,817
YANG, WILLIAM C	MITOCHONDRIAL CHANGES DURING CARDIAC HYPOXIA	RO1HE 04346-08	MET	12,720
YETT, DONALD E	THE DEVELOPMENT OF AN ECONOMETRIC MODEL OF THE MARKET F	R21NU 00274-01	NR	31,413
YETT, DONALD E	TRAINING FOR NURSES & PHYSICIANS	R21NU 00277-01	NR	20,270
INSTITUTION TOTAL	98	4,325,094		
MENLO PARK				
STANFORD RESEARCH INSTITUTE				
FIELDSTEEL, A HOWARD	TISSUE CULTURE STUDIES ON FRIEND VIRUS-DERIVED TUMORS	RO1CA 07868-05	VR	54,099
FIELDSTEEL, A HOWARD	CULTIVATION OF M LEPRAE IN TISSUE CULTURE	R22AI 08417-01	SSS	82,797
FREEMAN, GUSTAVE	NO2-INDUCED EMPHYSEMA IN THE RAT	RO1AI 08723-07	PTHB	62,379
GOODMAN, LEON	CHEMICAL MODIFICATION OF THE NATURAL ACTINOMYCINS	RO1CA 10571-01	MCHA	32,841
GOREE, WILLIAM S	MAGNETIC MEASUREMENTS OF BIOLOGICAL MACROMOLECULES	RO1HE 11343-01	BBBC	30,070
HENRY, DAVID W	SYNTHETIC NITROHETEROCYCLIC ANTISCHISTOSOMAL AGENTS	R22AI 07962-01S1	MCHA	1,980
HENRY, DAVID W	SYNTHETIC NITROHETEROCYCLIC ANTISCHISTOSOMAL AGENTS	R22AI 07962-02	MCHA	18,588
KRYTER, KARL D	NOISE INDUCED DEAFNESS MASKING AND SPEECH PERCEPTION	RO1NB 07908-03	CMS	131,160
LE PAGE, GERALD A	CHEMICAL SUPPRESSION OF THE IMMUNE RESPONSE	RO1CA 10078-02	IMB	36,399
MITOMA, CHOZO	EXPERIMENTAL PKU INDUCED BY ENZYME INHIBITORS	RO1HD 01972-03	MET	24,070
PETERS, JOHN H	POLYMORPHIC ACETYLTATION RABBITS AS MODELS OF MAN	RO1GM 14559-01A1	PHRB	37,285

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INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRG	DOLLARS
CALIFORNIA—(CON.)				
PETERS, JOHN H	STUDIES ON THE METABOLISM OF DAPSONE IN MAN	R22AI 08214-01S1	SSS	4,083
PINNEO, LAWRENCE R	NEUROPHYSIOLOGY OF BRIGHTNESS PERCEPTION	R01NB 07916-01	VIS	51,203
POULTER, THOS C	ECHO-RANGING SIGNALS	R01NB 04736-05	CMS	117,199
REIST, ELMER J	SYNTHESIS OF SPHINGOSINE AND SOME ANALOGS	R01NB 07776-01	MCHA	30,089
RICE, CHARLES E	QUANTITATIVE MEASURES OF ECHO DETECTION IN THE BLIND	R01NB 04738-05	CMS	128,080
SKINNER, W A	GENERAL RESEARCH SUPPORT GRANT	S01FR 05522-06	NSS	180,155
SKINNER, WILFRED A	METABOLITES AND OXIDATION PRODUCTS OF VITAMIN E	R01AM 05552-07	NTN	26,165
STEPHENS, ROBERT J	DEVELOPMENT OF THE PLACENTA AND YOLK SAC OF THE BAT	R01HD 03391-01	HED	30,020
STONE, HERBERT	OLFACTORY ADAPTATION, RECOVERY, AND ODOR SPECIFICITY	R01NB 07832-01	EXP	28,557
STONE, HERBERT	ROLE OF THE TRIGEMINAL NERVE IN OLFACTION	R01NB 07866-01	EPR	24,666
TANABE, MASATO	SYNTHETIC STEROID ANTIBIOTIC ANALOGS	R01AI 07397-02	MCHA	51,210
TANABE, MASATO	CARBON-13 LABELED SUBSTRATES IN BIOSYNTHETIC STUDIES	R01AI 08143-01	MCHA	35,555
TANABE, MASATO	ENZYMATIC HYDROXYLATION OF ORGANIC COMPOUNDS	R01AM 06629-06	PHRA	25,196
INSTITUTION TOTAL	24	1,243,846		
NORTHRIDGE				
SAN FERNANDO VALLEY STATE COLLEGE				
ABRASH, HENRY I	MECHANISM OF RIBONUCLEASE ACTION	R01GM 09905-06	BIO	9,422
CANTOR, MARVIN H	ENCYSTMENT PROCESS IN THE ELAGELLATE, POLYTOMELLA AGLIS	R01AI 07926-02	TMP	34,194
LE FEVRE, GEORGE, JR	COMPARATIVE STUDIES ON INDUCED MUTATION IN DROSOPHILA	R01GM 13631-03	GEN	59,432
INSTITUTION TOTAL	3	103,048		
OAKLAND				
ALAMEDA COUNTY MEDICAL INSTITUTIONS--HIGHLAND GENERAL HOSPITAL				
KINSELL, LAURANCE W	STUDIES IN LIPID METABOLISM	R01HE 00955-17	SRC	92,075
WOOD, PETER D	THE COMPOSITION OF HUMAN BILE IN RELATION TO DIET	R01AM 11000-02	NTN	45,019
WOOD, PETER D	HUMAN FECAL EXCRETION OF CHOLESTEROL AND METABOLITES	R01HE 09346-04	NTN	45,784
INSTITUTION TOTAL	3	182,878		
CHILDREN'S HOSPITAL MEDICAL CENTER OF NORTHERN CALIFORNIA				
HILLYARD, LEWIS A	SERUM APOLIPOPROTEINS CHARACTER, KINETICS, SYNTHESIS	R01HE 11483-01	MET	29,640
INSTITUTION TOTAL	1	29,640		
KAISER FOUNDATION HOSPITALS -KAISER FOUNDATION RESEARCH INSTITUTE				
FEINGOLD, BEN F	PERSONALITY & ADRENAL CORTICAL RESPONSE IN ALLERGY	R01AI 06188-05	EXP	25,680
FEINGOLD, BEN F	ALLERGY TO BITES OF DISEASE TRANSMITTING INSECTS	R01AI 06407-03	IMB	20,635
KEENE, CLIFFORD H	GENERAL RESEARCH SUPPORT GRANT	S01FR 05521-06	NSS	144,140
MICHAELI, DOV	IMMUNOENZYMOLGY OF ACETYLCHOLINESTERASE	R01ES 00037-05	TOX	35,779
YERUSHALMY, J	BIOLOGIC & ENVIRONMENTAL FACTORS IN CHILD DEVELOPMENT	P01HD 00718-09	HDP	538,543
YERUSHALMY, J	BLOOD GROUPING STUDIES	R01HD 00720-08	HDP	98,808
YOUNG, JANIS D	IMMUNOLOGICAL STUDIES OF TOBACCO MOSAIC VIRUS PROTEIN	R01AI 06040-04	ALY	53,916
INSTITUTION TOTAL	7	917,501		
OLIVE VIEW				
LOS ANGELES COUNTY DEPARTMENT OF HOSPITALS-- OLIVE VIEW HOSPITAL				
GLENCHUR, HARRY	CHARACTERIZATION OF TUBERCLE BACILLUS ANTIGENS	R22AI 08464-01	SSS	12,730
INSTITUTION TOTAL	1	12,730		
ORANGE				
ORANGE COUNTY MEDICAL CENTER				
GUTH, PAUL H	GASTRIC VASCULAR CHANGE IN EXPERIMENTAL PEPTIC ULCER	R01AM 11594-02	GMA	14,124
INSTITUTION TOTAL	1	14,124		
PALO ALTO				
AMERICAN INSTITUTES FOR RESEARCH IN THE BEHAVIORAL SCIENCES				
CARP, FRANCES M	AGING IN THE COMMUNITY	R01HD 03643-01	DBR	50,248
INSTITUTION TOTAL	1	50,248		
MENTAL RESEARCH INSTITUTE				
DANIELS, ARLENE K	PROBLEMS OF SOCIAL CHANGE AND CONTROL IN PROFESSIONS	R01HD 02776-02	BS	71,072
INSTITUTION TOTAL	1	71,072		
PALO ALTO MEDICAL RESEARCH FOUNDATION				
BOBB, DOLORES	EFFECTS OF PROTEIN COMPLEXING ON TRANSFORMING DNA	R01GM 11832-03S2	PC	297
GREENBERG, JOSEPH	GENETICS OF RADIATION AND RADIOMIMETIC AGENTS	R01CA 05687-08	RAD	73,810
HOFSTEE, BAREND H	SPECIFICITY OF HYDROLYTIC ENZYMES	R01CA 02289-14	PC	27,895
INGELS, NEIL B, JR	MYOCARDIAL STOP MOTION STEREO PHOTOGRAMMETRY	R01HE 11739-01	CVB	38,237
KRUPP, MARCUS A	GENERAL RESEARCH SUPPORT GRANT	S01FR 05513-06	NSS	71,821
LEWIS, BERNARD I	COOPERATIVE STUDY OF DRUGS AND CORONARY HEART DISEASE	R01HE 10443-03	SRC	62,398
MC CLENAHAN, JAMES B	BYPASS LUNG PHYSIOLOGY AND SURFACE PROPERTIES	R01HE 09375-04	SGYA	26,165
REMYINGTON, JACK S	TOXOPLASMOISIS NATURE OF INFECTION AND IMMUNE RESPONSE	R01AI 04717-06S1	TMP	14,013
REMYINGTON, JACK S	TOXOPLASMOISIS NATURE OF INFECTION AND IMMUNE RESPONSE	R01AI 04717-07	TMP	94,679
SACKS, ALVIN H	HEMODYNAMIC EVENTS RELATED TO MURMURS AND HEMOLYSIS	R01HE 11498-01	CVA	32,012
THOMPSON, NOEL P	PRESSURE TRANSDUCTION WITH PHOTO-ETCHED GAUGE ELEMENTS	R01GM 11250-05	PHY	21,840
ZWENG, H CHRISTIAN	UROKINASE THERAPY OF RETINAL ARTERY OCCLUSION	R01HE 11392-02	HEM	14,480

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INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRG	DOLLARS
CALIFORNIA—(CON.)				
INSTITUTION TOTAL	12	477,647		
PALO ALTO UNIFIED SCHOOL DISTRICT				
OWEN, FREYA W	LEARNING DISABILITIES IN CHILDREN SIBLING STUDIES	RO1HD 01730-03	CPR	18,930
INSTITUTION TOTAL	1	18,930		
PASADENA				
CALIFORNIA INSTITUTE OF TECHNOLOGY				
ATTARDI, GIUSEPPE	GENE EXPRESSION AND CONTENT IN CELL DIFFERENTIATION	RO1GM 11726-05	GEN	151,837
BACHER, ROBERT F	BIOMEDICAL SCIENCES SUPPORT	S05FR 07003-03	NSS	121,098
BONNER, JAMES F	MOLECULAR BASIS OF GENETIC CONTROL	RO1GM 13762-03	PC	166,260
BORSOOK, HENRY	THE BIOLOGICAL SYNTHESIS OF PROTEIN	RO1HE 01624-17	PC	33,566
BROKAW, CHARLES J	MECHANISMS OF FLAGELLAR MOVEMENT	RO1GM 14613-02	CBY	43,530
CAMPBELL, DAN H	IMMUNOCHEMICAL ASPECTS OF HYPERSENSITIVITY	RO1AI 01339-11	ALY	19,159
CAMPBELL, DAN H	RESEARCH ON BLOOD AND IMMUNOCHEMISTRY	RO1AI 01355-22	ALY	80,958
CHAN, SUNNEY I	DEUTERON RELAXATION STUDIES OF THE HYDROGEN BOND	RO1GM 13212-03	BBCB	23,500
CHAN, SUNNEY I	BASE BINDING TO OLIGONUCLEOTIDES	RO1GM 14523-02	BBCA	28,362
COREY, ROBERT B	CRYSTAL STRUCTURES OF COMPOUNDS RELATED TO PROTEINS	RO1HE 02143-15	BBCB	58,251
DAVIDSON, NORMAN R	PHYSICAL CHEMISTRY OF NUCLEIC ACIDS	RO1GM 10991-09	BBCA	91,423
DICKERSON, RICHARD E	STRUCTURES OF TRYPSIN, CHYMOTRYPSIN AND CYTOCHROME C	RO1GM 12121-04	BBCA	61,379
KEIGHLEY, GEOFFREY L	ERYTHROPOIETIC FACTOR, PHYSIOLOGY AND PURIFICATION	RO1HE 07683-06	HEM	64,696
MC CANN, GILBERT D	STUDY OF CEREBRAL AND RELATED SYSTEMS	PO1NB 03627-07	NBPA	289,161
MC CANN, GILBERT D	NEW CONCEPTS FOR ANALYSIS IN LIFE AND MEDICAL SCIENCES	RO1GM 15537-01	COM	197,660
OWEN, RAY D	BASIC EXPERIMENTAL BIOLOGY	PO1GM 06965-09	GMP	373,094
OWEN, RAY D	EXPERIMENTAL BIOLOGY	RO1HE 03103-12	SSS	63,245
RAFFERTY, MICHAEL A	CHEMISTRY AND KINETICS OF LYSOZYME ACTION	RO1GM 14452-02	PC	40,463
RICHARDS, JOHN H	MECHANISM OF BIOLOGICAL HYDROXYLATION	RO1AM 08888-03S1	MCHB	7,153
RICHARDS, JOHN H	STRUCTURE AND BIOSYNTHESIS OF NATURAL PRODUCTS	RO1GM 10218-06	MCHB	26,662
ROBERTS, JOHN D	NUCLEAR MAGNETIC RESONANCE SPECTROSCOPY OF NITROGEN -15	RO1GM 11072-06	BBCB	38,670
ROBINSON, G WILSE	"QUANTUM PROCESSES IN PHOTOSYNTHESIS"	RO1GM 11827-03	BBCA	22,362
SCHROEDER, WALTER A	STRUCTURE-FUNCTION RELATIONSHIPS IN THE HEMEPROTEINS	RO1HE 02558-12	BIO	97,793
SINSHEIMER, ROBERT L	STRUCTURE AND REPLICATION OF BACTERIAL VIRUSES	RO1GM 13554-03	VR	213,832
STRUMWASSER, FELIX	MECHANISMS OF INNATE AND ENTRAINED PATTERNS IN NEURONS	RO1NB 07071-02	PHY	51,784
TYLER, ALBERT	INITIATION AND CONTROL OF EMBRYONIC DEVELOPMENT	RO1HD 03476-04	CBY	57,240
VAN HARREVELD, ANTHONIE	THE MECHANISM OF PROPAGATION OF SPREADING DEPRESSION	RO1NB 07658-01	NEUB	31,151
VINOGRAD, JEROME	STUDIES OF THE DNA FROM ONCOGENIC VIRUSES	RO1CA 08014-03S1	VR	21,115
VINOGRAD, JEROME	CIRCULAR DNA FROM ONCOGENIC VIRUSES AND MITOCHONDRIA	RO1CA 08014-04	VR	109,770
VINOGRAD, JEROME	ULTRACENTRIFUGAL STUDIES OF BIOLOGICAL MACROMOLECULES	RO1GM 15327-10	BBCA	75,635
WAYLAND, J HAROLD	BLOOD FLOW IN SMALL TUBES AND THE MICROCIRCULATION	RO1HE 08977-04	CVA	87,807
INSTITUTION TOTAL	31	2,748,616		
PASADENA FOUNDATION FOR MEDICAL RESEARCH				
KASTEN, FREDERICK H	ELECTRON MICROSCOPIC AND CYTOCHEMICAL STUDIES OF DNA	RO1CA 07991-04	PTHB	37,185
KASTEN, FREDERICK H	STUDIES ON NEURONS AND ALLIED CELLS IN CULTURE	RO1NB 03113-08	CBY	34,064
OHNUKI, YASUSHI	STUDIES ON SPIRAL STRUCTURE OF HUMAN CHROMOSOMES	RO1GM 14185-02	GEN	31,626
INSTITUTION TOTAL	3	102,875		
POMONA				
CALIFORNIA STATE DEPARTMENT OF M HY--PACIFIC STATE HOSPITAL				
EYMAN, RICHARD K	GENERAL RESEARCH SUPPORT GRANT	S01FR 05632-02	NSS	90,131
INSTITUTION TOTAL	1	90,131		
REDLANDS				
REDLANDS UNIVERSITY OF				
IFFT, JAMES B	PHYSICAL CHEMISTRY OF PROTEINS IN SALT SOLUTIONS	RO1HE 11512-01	BBCA	20,146
INSTITUTION TOTAL	1	20,146		
RIVERSIDE				
CALIFORNIA UNIVERSITY OF AT RIVERSIDE				
BARTNICKI-GARCIA, SALOMON	BIOCHEMISTRY OF MORPHOGENESIS IN MUCOR	RO1AI 05540-06	MBC	15,700
BARTNICKI-GARCIA, SALOMON	CELL WALL DIFFERENTIATION IN PHYTOPHTHORA	RO1AI 06205-05	BM	30,092
BRUNER, LEON J	IONIC PERMEABILITY OF ARTIFICIAL MEMBRANES	RO1GM 13687-03	PHY	21,655
CASTRO, CHARLES E	COPPER SUBSTITUTIONS. A SYNTHESIS OF NEMATOCIDES	RO1AI 05132-06	MCHB	22,488
CASTRO, CHARLES E	BIOLOGICAL CLEAVAGE OF CARBON-HALOGEN BONDS	RO1ES 00169-05	TOX	27,245
COTA-ROBLES, EUGENE H	PENETRATION OF DNA OF COLIPHAGE T2 INTO HOST CELL	RO1AI 04829-05	VR	20,302
COTA-ROBLES, EUGENE H	THE RELEASE OF TOXIN FROM CELLS OF CLOSTRIDIUM TETANI	RO1AI 07460-02	BM	20,523
GERARD, HAROLD B	FACTORS CONTRIBUTING TO ADJUSTMENT AND ACHIEVEMENT	RO1HD 02863-02	DBR	269,540
GIBIAN, MORTON J	FLAVIN REDOX CHEMISTRY AND FLAVOENZYM MECHANISMS	RO1GM 15100-02	BIO	18,029
HAHN, HARLAN D	FLUORIDATION AND COMMUNITY DECISION-MAKING	RO1DH 00151-01	HSR	49,514
HAWTHORNE, M FREDERICK	SYNTHETIC STUDIES WITH BORONHYDRIDES	RO1CA 06773-06	MCHB	20,335
HELMKAMP, GEORGE K	SPECIFIC HYDROGEN BOND INTERACTIONS OF NUCLEIC ACIDS	RO1GM 08185-08	BBCB	28,702
HEWITT, ROBERT R	BIOMEDICAL SCIENCES SUPPORT	S05FR 07010-03	NSS	75,230
KEARNS, DAVID R	STUDIES OF EXCITED STATES OF HETEROAROMATIC MOLECULES	RO1GM 10449-06	BBC	23,966
LEGNER, E FRED	ECOLOGY AND BIOLOGY OF HIPPELATES	RO1GM 12496-04	TMP	16,104

TABLE 2—RESEARCH GRANTS, BY AREA, INSTITUTION, AND PRINCIPAL INVESTIGATOR

INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRG	DOLLARS
CALIFORNIA—(CON.)				
LEGNER, E FRED	ECOLOGY AND BIOLOGY OF PARASITES OF MUSCIDAE	RO1GM 12699-04	TMP	9,508
MAKI, AUGUST H	MAGNETIC RESONANCE OF HETEROCYCLIC TRIPLET STATES	RO1GM 12327-03S1	BBCA	491
MAKI, AUGUST H	MAGNETIC RESONANCE OF HETEROCYCLIC TRIPLET STATES	RO1GM 12327-04	BBCA	36,909
NEUMAN, ROBERT C, JR	STRUCTURES OF BIOLOGICALLY ACTIVE FUNCTIONAL GROUPS	RO1GM 13342-03	BBCB	10,558
NOLTMANN, ERNST A	STUDIES ON PHOSPHOHEXOISOMERASES	RO1AM 07203-06	PC	43,100
NORMAN, ANTHONY W	STUDIES ON VITAMIN D AND CALCIUM METABOLISM	RO1AM 09012-04	GMB	32,910
ORTTUNG, WILLIAM H	PROTEIN STRUCTURE BY KERR EFFECT DISPERSION	RO1GM 11683-05	BBCA	22,175
PAULING, EDWARD C	STUDIES ON DNA METABOLISM IN ESCHERICHIA COLI	RO1AI 07798-02	GEN	22,721
RIESEN, AUSTIN H	VISION IN SPECIAL ENVIRONMENTS DEVELOPMENTAL EFFECTS	RO1NB 04717-06	VIS	55,439
SEMANCIK, JOSEPH S	POPULATION HETEROGENEITY IN PLANT VIRUSES	RO1AI 06626-04	VR	5,268
SHERMAN, IRWIN W	HOST-PARASITE INTERRELATIONSHIPS IN THE MALARIAS	RO1AI 05226-05	TMP	15,664
SHOREY, HARRY H	CHEMICAL STIMULI IN THE BEHAVIOR OF INSECTS	RO1GM 11524-05	TMP	21,399
SIMS, JAMES J	SYNTHESIS OF NATURAL PRODUCTS	RO1AM 10474-03	MCHA	18,205
WILSON, PAUL D	VISUAL DEVELOPMENT	RO1NB 07248-02	VIS	34,742
INSTITUTION TOTAL	29	988,514		
SACRAMENTO				
CALIFORNIA STATE DEPARTMENT OF M HY				
ROSS, ROBT T	A FORTY YEAR FOLLOW-UP OF MENTAL RETARDATES	RO1HD 02671-01A1	PCR	83,867
INSTITUTION TOTAL	1	83,867		
INSTITUTE FOR STUDY OF CRIME AND DELINQUENCY				
MC GEE, RICHARD A	GENERAL RESEARCH SUPPORT GRANT	SO1FR 05620-02	NSS	48,317
INSTITUTION TOTAL	1	48,317		
SAN DIEGO				
CALIFORNIA UNIVERSITY OF AT SAN DIEGO				
BENSON, ANDREW A	SURFACTANT LIPIDS OF BIOLOGICAL MEMBRANES	RO1GM 12310-03	CBY	39,536
BOND, FREDERICK T	STRAINED STERIOD SYSTEMS	RO1AM 12100-01	MCHA	11,476
BRAUNWALD, EUGENE	QUANTITATIVE ANALYSIS OF MYOCARDIAL FUNCTION IN MAN	RO1HE 11981-01	CVB	157,721
BRAUNWALD, NINA S	FACTORS MODIFYING TISSUE INGROWTH ON HEART VALVES	RO1HE 12022-01	SGYA	96,277
BUTLER, WARREN L	PHOTOCHEMICAL MECHANISM OF PHOTOSYNTHESIS	RO1GM 15048-01	BBCA	82,570
CHOW, TSAIHW A J	LEAD ISOTOPIC CHEMISTRY FOR POLLUTION RESEARCH	RO1ES 00130-03	ESE	25,350
CLARK, LEIGH B	ELECTRONIC STATES OF NUCLEIC ACID CONSTITUENTS	RO1HE 08323-02	BBC	24,355
DE MOSS, JOHN A	STUDIES IN CONTROL MECHANISMS IN BACTERIAL PHYSIOLOGY	RO1GM 13200-04	MBC	28,777
DOOLITTLE, RUSSELL F	COMPARATIVE STUDIES ON IMMUNOGLOBULIN STRUCTURE	RO1AI 07781-02	ALY	16,393
ELSNER, ROBERT W	CIRCULATORY REACTIONS TO ASPHYXIA	RO1HE 08323-05	PHY	44,124
ENNS, THEODORE	BIOLOGICAL TRANSPORT OF GASES AND OTHER SUBSTANCES	RO1HE 10222-03	SSS	35,846
FEHER, GEORGE	ESR EXPERIMENTS ON MODEL PHOTOSYNTHETIC SYSTEMS	RO1GM 13191-04	BBCB	70,398
FRIEDMAN, WILLIAM F	CHARACTERIZATION OF FETAL AND NEONATAL MYOCARDIUM	RO1HE 11969-01	CVA	46,506
FROEB, HERMAN F	AEROSOL BRONCHODILATORS AND AIRWAY MECHANICS	RO1HE 11381-01S1	CVA	6,109
GREEN, DAVID M	MASKING MECHANISMS	RO1NB 06940-03	CMS	34,841
GREEN, MELVIN H	REGULATION OF GENETIC EXPRESSION	RO1GM 14318-02	GOP	35,764
GROBSTEIN, CLIFFORD	PROGRAM FOR DEVELOPMENTAL BIOLOGY AT UCSD	PO1HD 03015-02	HOP	282,062
GROBSTEIN, CLIFFORD	GENERAL RESEARCH SUPPORT GRANT	SO1FR 05665-01	NSS	76,091
GROBSTEIN, RUTH H	MECHANISM OF ANTIBODY PRODUCTION	RO1AI 07812-02	ALY	27,715
HAGIWARA, SUSUMU	STUDIES IN MICRONEUROPHYSIOLOGY	RO1NB 05536-07	PHY	85,225
HAYASHI, MASAKI	SYNTHESIS OF INFECTIOUS BACTERIOPHAGE PARTICLES	RO1GM 12934-04	PC	82,836
HELINSKI, DONALD R	STRUCTURE AND GENETIC CONTROL OF COLICINES	RO1AI 07194-03	GEN	45,482
HOLLAND, JOHN J	SYNTHESIS IN NORMAL, VIRUS-INFECTED, & TUMOR CELLS	RO1CA 10802-01	VR	88,395
HUMPHREYS, TOM D	DEVELOPMENTAL REGULATION OF MESSENGER RNA FUNCTION	RO1HD 03480-02	CBY	33,960
KAMEN, MARTIN D	ELECTRON TRANSPORT SYSTEMS IN PHOTOSYNTHETIC BACTERIA	RO1HD 01262-07	PC	202,798
KAMPA, ELIZABETH M	STRUCTURE AND FUNCTION OF EYES	RO1NB 05628-04	VIS	50,121
KRAUT, JOSEPH	CRYSTALLOGRAPHIC STUDY OF BIOLOGICAL MOLECULES	RO1GM 10928-06	BBCB	43,657
LIEBOW, AVERILL A	CARDIOPULMONARY ANATOMY AND PHYSIOLOGY IN DISEASE	RO1HE 12392-01	SGYA	103,501
LINCK, ROBERT G	INNER-SPHERE ELECTRON-TRANSFER REACTIONS	RO1GM 14830-02	BBCB	18,125
NORMAN, DONALD A	COMPUTER-IMPLEMENTED STUDIES OF SENSORY PROCESSING	RO1NB 07454-02	SSS	62,734
ORLOFF, MARSHALL J	STUDIES IN EXPERIMENTAL AND CLINICAL SCITES	RO1AM 12280-01	SGYA	88,035
ORLOFF, MARSHALL J	CIRRHOSIS, AMMONIA INTOXICATION AND SHOCK	RO1AM 12281-01	SGYA	45,457
ORLOFF, MARSHALL J	CIRRHOSIS HEPATIC PHYSIOLOGY AND LIVER TRANSPLANTATION	RO1AM 12281-02	SGYA	143,315
ROSS, JOHN, JR	MECHANICS OF CONTRACTION OF THE INTACT HEART	RO1HE 12031-01	CVB	209,998
SALTMAN, PAUL D	STUDIES ON BIOLOGICAL TRANSPORT MECHANISMS	RO1AM 12386-01	GMB	15,881
SALTMAN, PAUL D	STUDIES ON BIOLOGICAL TRANSPORT MECHANISMS	RO1AM 12386-02	GMB	53,765
SCHOLANDER, P F	MARINE PHYSIOLOGY	RO1GM 10521-05S1	PHY	406
SCHOLANDER, P F	MARINE PHYSIOLOGY	RO1GM 10521-06	PHY	152,182
SCHRAUZER, GERHARD N	DEGRADATION OF PESTICIDES WITH VITAMIN B12 AND METALLOP	RO1ES 00325-01	MCHB	30,386
SCHULMAN, HERBERT M	BIOCHEMISTRY OF CELL DIFFERENTIATION	RO1AM 08250-05	HEM	27,241
SCHWASSMANN, HORST O	FUNCTIONAL ORGANIZATION OF VISUAL CENTERS	RO1NB 07427-01	VIS	32,938
SIMON, MELVIN I	MODIFICATION OF NUCLEIC ACIDS-PHOTOSENSITIZATION	RO1GM 13210-03	BIO	9,606
SINGER, JONATHAN S	CELL GENETICS AND EVOLUTION	PO1GM 12027-05	GMP	143,009
SINGER, S J	ELECTRON MICROSCOPY WITH ANTIBODY STAINS	RO1AI 04255-07	ALY	49,702
SINGER, S JONATHAN	THE STRUCTURE OF ANTIBODY MOLECULES	RO1AI 06659-04	ALY	57,392
SINGER, S JONATHAN	MOLECULAR APPROACHES TO ULTRASTRUCTURE	RO1GM 15971-01	MBY	96,474

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INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRG	DOLLARS
CALIFORNIA—(CON.)				
SOBEL, BURTON E	PROTEIN SYNTHESIS IN ABNORMAL HEART MUSCLE	RO1HE 12116-01	PC	43,193
SPIRO, MELFORD E	CULTURE, RELIGION AND PERSONALITY IN SOUTHEAST ASIA	RO1HD 04127-01	SSR	38,087
STRICKLAND, JOHN D	STANDING STOCK AND GROWTH OF BACTERIA IN THE SEA	RO1ES 00035-04	BM	42,607
TRAYLOR, TEDDY G	MECHANISMS OF REACTIONS OF OXYGEN WITH HEME PROTEINS	RO1AM 11404-02	MCHB	30,272
VARON, SILVIO S	DISSOCIATED AND CULTURED NERVE CELLS GROWTH FACTORS	RO1NB 07606-01	NEUB	69,996
VOLCANI, BENJAMIN E	BIOCHEMICAL STUDIES ON SILICEOUS SKELETAL FORMATION	RO1GM 08229-08	SSS	105,859
WALL, FREDERICK T	BIOMEDICAL SCIENCES SUPPORT	S05FR 07011-03	NSS	104,298
WATSON, JOSEPH W	INTRAMOLECULAR CATALYSIS OF ESTER AMINOLYSES	RO1AM 11987-01	MCHA	27,484
WHEELER, HENRY D	ELECTROLYTE AND WATER ABSORPTION IN THE GALL BLADDER	RO1AM 13096-01	GMA	25,000
ZIMM, BRUNO H	NUCLEIC ACIDS AND OTHER BIOLOGICAL MACROMOLECULES	RO1GM 11916-05	BIO	37,914
ZWEIFACH, BENJAMIN W	STRUCTURE AND FUNCTION OF MICROCIRCULATION	RO1HE 10881-02	CVA	74,430
INSTITUTION TOTAL	57 3,713,672			
LABORATORY FOR COMPARATIVE BIOCHEMISTRY				
BARTLETT, GRANT R	RED CELL METABOLISM	RO1HE 06950-07	HEM	30,914
INSTITUTION TOTAL	1 30,914			
SALK INSTITUTE FOR BIOLOGICAL STUDIES				
COHN, MELVIN	ANTIBODY SYNTHESIS	RO1AI 05875-05	ALY	121,864
DULBECCO, RENATO	STUDY OF THE FUNCTION OF VIRAL AND CELLULAR GENES	RO1CA 07592-05	GEN	360,944
HORIBATA, KENGO	MECHANISMS OF ANIMAL CELL DIVISION AND DIFFERENTIATION	RO1CA 10311-01	CBY	7,551
KNOPF, PAUL M	FORMATION OF GAMMAGLOBULIN BY A PLASMA CELL TUMOR	RO1AI 07827-02	ALY	20,612
LENNOX, EDWIN S	GENETICS AND REGULATION OF ANTIBODY FORMATION	RO1AI 06544-04	ALY	81,105
ORGEL, LESLIE E	EVOLUTION OF GENETIC SPECIFICITY	RO1GM 13435-03	GEN	104,169
SALK, JONAS E	GENERAL RESEARCH SUPPORT GRANT	S01FR 05595-04	NSS	240,767
INSTITUTION TOTAL	7 937,012			
SAN DIEGO STATE COLLEGE				
ABBOTT, MITCHEL T	THE MECHANISM OF ACTION OF THYMINE 7-HYDROXYLASE	RO1AM 09314-04	PC	20,865
GRUBBS, EDWARD J	A STUDY OF THE UNCATALYZED ISOMERIZATION OF NITRONES	RO1CA 10741-01	MCHA	13,092
KAPLAN, OSCAR J	A HISTORY OF GERONTOLOGY IN THE UNITED STATES	RO1LM 00529-01	HLS	23,111
KASTON, BENJAMIN J	COMPARATIVE BIOLOGY OF AMERICAN BLACK WIDOW SPIDERS	RO1GM 14623-01S1	TMP	1,040
KASTON, BENJAMIN J	COMPARATIVE BIOLOGY OF AMERICAN BLACK WIDOW SPIDERS	RO1GM 14623-02	TMP	10,968
KELLY, BEATRICE L	GENETIC STUDIES WITH SELECTIVE MUTANTS OF PHAGE P2	RO1GM 15902-01	GEN	9,020
MATHEWSON, JAMES H	MECHANISMS OF PORPHOBILINOGEN CONDENSATIONS	RO1AM 10357-02	MBC	12,896
O BYRNE, ERNEST B	BIOMEDICAL SCIENCES SUPPORT	S05FR 07004-03	NSS	43,647
STEWART, CHARLES J	STUDY OF COENZYME A ANALOGS	RO1GM 07977-08	BIO	20,168
WICK, ARNE N	THE STUDY OF THE ACTION OF INSULIN	RO1AM 05685-06	MET	45,180
INSTITUTION TOTAL	10 199,987			
SCRIPPS CLINIC AND RESEARCH FOUNDATION				
CARAVACA TRUJILLO JOSEFINA	ENZYMATIC STUDIES ON CHOLESTEROL METABOLISM	RO1HE 10106-07	PC	26,553
CARAVACA TRUJILLO, JOSEFINA	ENZYMATIC STUDIES ON HYPERTENSION	RO1HE 08446-05	PTHA	20,582
DANDLIKER, WALTER B	MOLECULAR INTERACTION	RO1AM 07508-05	BBCA	30,227
DAWSON, ARTHUR D	PULMONARY BLOOD FLOW DISTRIBUTION IN MAN	RO1HE 10009-03	PHY	21,679
DIXON, FRANK J	IMMUNOPATHOLOGIC STUDIES	PO1AI 07007-03	SSS	734,070
FARR, RICHARD S	SUPPRESSION AND INDUCTION OF SPECIFIC SERUM PROTEINS	RO1AI 06894-03	IMB	41,714
FARR, RICHARD S	IMMUNE REACTIONS TO INFECTIOUS AGENTS IN BRONCHITIS	RO1AI 08356-01A1	BM	50,981
FARR, RICHARD S	PRIMARY ANTIGEN-ANTIBODY REACTIONS IN TUBERCULOSIS	R22AI 07968-02	SSS	61,132
FRANKLIN, DEAN	ULTRASONIC DOPPLER FLOWMETER DEVELOPMENT	RO1HE 08337-05	PHY	57,632
HATEFI, YOUSSEF	ELECTRON TRANSFER IN THE TERMINAL RESPIRATORY SYSTEM	RO1AM 08126-03S1	BIO	9,851
HATEFI, YOUSSEF	ELECTRON TRANSFER IN THE TERMINAL RESPIRATORY SYSTEM	RO1AM 08126-05	BIO	59,566
HUENNEKENS, FRANK M	MECHANISM OF ACTION OF B12 COENZYMES	RO1AM 08398-05	BIO	24,786
HUENNEKENS, FRANK M	FOLIC ACID COENZYMES AND ONE-CARBON METABOLISM	RO1CA 06522-07	PHRB	82,278
KEENEY, EDMUND L	GENERAL RESEARCH SUPPORT GRANT	S01FR 05514-06	NSS	221,170
LEWIS, URBAN J	CONVERSION PRODUCTS OF GROWTH HORMONE AND PROLACTIN	RO1AM 09537-03	END	15,445
MULLER-EBERHARD, URSULA	HEMOLYTIC ANEMIAS IN CHILDHOOD	RO1HE 08660-05	HEM	34,541
POLLOCK, MARY E	CHARACTERIZATION OF DNA FROM MYCOPLASMA SPECIES	RO1GM 13941-03	MBC	28,744
REID, ROBERT T	STUDIES ON HETEROGENEITY OF REAGINIC PROTEINS	RO1AI 07903-02	ALY	26,206
SPIZIZEN, JOHN	ESTABLISHMENT OF A DIVISION OF MICROBIOLOGY	RO1AI 06571-04	SSS	79,386
SPIZIZEN, JOHN	GENETIC CONTROL OF CELL DIFFERENTIATION	RO1HD 02807-02	MBC	82,764
STOUGHTON, RICHARD B	PERCUTANEOUS ABSORPTION	RO1AM 11649-01	GMA	51,573
TAN, ENG M	IMMUNOLOGICAL STUDIES IN SYSTEMIC LUPUS ERYTHEMATOSUS	RO1AM 12198-01	IMB	6,495
TAN, ENG M	NUCLEAR ANTIGENS IN SYSTEMIC LUPUS ERYTHEMATOSUS	RO1AM 12198-02	IMB	57,265
VANDER LAAN, WILLARD P	IODINE METABOLISM AND THYROID-PITUITARY RELATIONSHIPS	RO1AM 01328-12	END	47,941
YOUNG, FRANK E	MODIFICATION OF CELLS BY NUCLEIC ACIDS	RO1GM 12956-04	GEN	25,480
INSTITUTION TOTAL	25 1,898,061			
SCRIPPS MEMORIAL HOSPITAL				
HABEL, KARL	PAPOVA TUMOR VIRUS-CELL RELATIONSHIPS	RO1CA 10596-01	VR	96,457
INSTITUTION TOTAL	1 96,457			
ZOOLOGICAL SOCIETY OF SAN DIEGO				
YORK, CHARLES J	COMPARATIVE STUDIES OF ANIMAL VIRUSES	RO1AI 07768-02	BM	33,560
INSTITUTION TOTAL	1 33,560			

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INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRG	DOLLARS
CALIFORNIA—(CON.)				
SAN FRANCISCO				
AREQUIPA FOUNDATION				
GRASSETTI, DAVIDE R	INHIBITION OF GLYCOLYSIS IN CANCER AND VIRUS THERAPY	RO1CA 08538-02	PHRB	56,529
INSTITUTION TOTAL	1	56,529		
CALIFORNIA STATE DEPARTMENT OF M HY--LANGLEY PORTER NEUROPSYCHIATRIC INSTITUTE				
CLARK, M MARGARET	ADULT DEVELOPMENT PROGRAM SUBCULTURAL STUDIES	RO1HD 02656-01	CPR	43,868
ELLMAN, GEORGE L	SULFHYDRYL REACTIVE CELLS OF THE CNS	RO1NB 06446-02S1	NEUA	4,239
ELLMAN, GEORGE L	SULFHYDRYL-REACTIVE CELLS OF THE CNS	RO1NB 06446-03	NEUA	16,546
HARGREAVES, WILLIAM A	PATTERNS OF PSYCHIATRIC NURSING	RO2NU 00201-03	NR	27,352
LOWENTHAL, MARJORIE F	ADULT DEVELOPMENT CONTINUITIES AND DISCONTINUITIES	RO1HD 03051-01	SSS	103,389
SIMON, ALEXANDER	GENERAL RESEARCH SUPPORT GRANT	SO1FR 05550-06	NSS	94,008
INSTITUTION TOTAL	6	289,402		
CALIFORNIA UNIVERSITY OF AT SAN FRANCISCO				
AMBERG, JOHN R	FACTORS INTERFERING WITH X-RAY VISUALIZATION OF THE GALL	RO1AM 10643-02	RAD	19,322
ANDERSON, CARL E	MECHANISMS AND PATHWAYS OF LYSIS OF CARTILAGE	PO1AM 08897-04	AMP	78,511
ARONSON, SAMUEL B	CLINICAL STUDIES IN OCULAR INFLAMMATION	P15NB 07912-01	NBPB	59,291
ARONSON, SAMUEL B	A STUDY OF OCULAR INFLAMMATORY DISEASES	RO1NB 04310-05	VIS	45,943
AUDY, J RALPH	BIONOMICS OF ORIENTAL-AUSTRALASIAN ACARINE VECTORS	RO1AI 03793-08	TMP	74,257
AUDY, J RALPH	INTERACTION OF LARVAL TREMATODES WITHIN SNAIL HOSTS	RO1AI 07054-03	TMP	46,033
AUDY, J RALPH	HOST-PARASITE RELATIONSHIPS IN THE GENUS TUNGA	RO1AI 07337-02S1	TMP	16,906
AUDY, J RALPH	HORMONAL DYNAMICS AND ANIMAL NUMBERS	RO1GM 11993-05	TMP	45,205
AUDY, J RALPH	BLOOD GENETICS IN MALAYSIA INDONESIA AND CALIFORNIA	RO1HE 10486-02	GEN	35,807
AUDY, J RALPH	INTERNATIONAL CENTER FOR MEDICAL RESEARCH AND TRAINING	RO7TW 00144-08	CIC	491,529
BENNETT, LESLIE L	INSULIN PRODUCTION BY THE PERFUSED PANCREAS	RO1AM 01410-10	END	31,744
BERRY, MICHAEL N	HEPATIC REGULATORY MECHANISMS AND FUNCTION	RO1AM 12284-01	MET	16,248
BIGLIERI, EDWARD G	SECRETORY STEROID MIXTURES OF ADRENAL CORTEX	RO1AM 06415-06	END	53,882
BLAISDELL, F WILLIAM	EXTRACRANIAL ARTERIAL OCCLUSION - JOINT STUDY	RO1HE 11122-02	SRC	57,759
BOYER, HERBERT W	HOST CONTROLLED MODIFICATION AND RESTRICTION OF DNA	RO1GM 14378-02	GEN	45,921
BRECHER, GEORGE	MACROCYTIC ANEMIA OF MYELOFIBROSIS AND CANCER	RO1CA 08608-02	HEM	46,136
BRECHER, GEORGE	AUTOMATED DATA PROCESSING FOR CLINICAL CHEMISTRY	RO1GM 14905-01S1	COM	94,939
BRECHER, GEORGE	AUTOMATED DATA PROCESSING FOR CLINICAL CHEMISTRY	RO1GM 14905-02	COM	124,849
BROWN, KENNETH T	INTRARETINAL RECORDING IN UNOPENED EYES	RO1NB 01903-08S1	VIS	477
BROWN, KENNETH T	INTRARETINAL RECORDING IN UNOPENED EYES	RO1NB 01903-09	VIS	50,616
CARBONE, JOHN V	PREVENTION OF HEPATITIS AFTER CARDIOVASCULAR SURGERY	RO1HE 10335-02	SRC	18,911
CAVALIERI, RALPH R	UTILIZATION OF TYROSINE BY THE THYROID GLAND	RO1AM 08410-05	END	18,447
CHAMBERLAIN, JACK G	PATHOGENESIS OF CENTRAL NERVOUS SYSTEM MALFORMATIONS	RO1HD 01503-04	HED	30,156
CHIERICI, GEORGE J	PRIMATE EXPERIMENT ON SKULL ASYMMETRY IN CLEFT PALATE	RO1DE 02633-01	DEN	9,943
CLINE, MARTIN J	RNA SYNTHESIS IN NORMAL AND MALIGNANT GRANULOCYTES	RO1CA 07723-04	PHRB	44,477
COMROE, JULIUS H, JR	CARDIOVASCULAR-RESPIRATORY PHYSIOLOGY AND BIOCHEMISTRY	PO1HE 06285-08	HEPA	2,273,489
CONTOPOULOS, ALEXANDER N	GROWTH PROMOTING SUBSTANCES IN PREGNANT RAT PLASMA	RO1HD 00476-11	END	56,147
CRAIG, JOHN C	BIOLOGICAL ESTER FORMATION BY HEMIACETAL OXIDATION	RO1HE 05881-08	MCHA	28,695
CROCKER, T TIMOTHY	REGULATION OF NUCLEAR FUNCTION DURING VIRUS INFECTION	RO1CA 08192-03S1	VR	7,776
CULLEN, STUART	GENERAL CLINICAL RESEARCH CENTER	MO1FR 00083-06	CLR	260,558
CULLEN, STUART C	GENERAL RESEARCH SUPPORT GRANT	SO1FR 05355-07	NSS	468,455
DE LORIMIER, ALFRED A	CONGENITAL DIAPHRAGMATIC HERNIA IN FETAL LAMBS	RO1HD 02685-02	SGYB	21,251
DEDO, HERBERT H	STUDIES ON LARYNX AND PHARYNX NEUROPHYSIOLOGY	RO1NB 06527-03	CMS	34,309
DIRKSEN, ELLEN R	MORPHOGENESIS & COMPOSITION OF CYTOPLASMIC ORGANELLES	RO1GM 15141-02	CBY	36,919
DUNPHY, J ENGLEBERT	PATHOPHYSIOLOGY OF HEPATOBILIARY TRACT	RO1AM 09181-04	GMA	73,730
DUNPHY, J ENGLEBERT	A STUDY OF WOUND HEALING	RO1GM 12829-04	SGYB	76,886
EARLEY, LAURENCE E	RENAL FUNCTION AND PARTIAL URETERAL OCCLUSION	RO1AM 12753-01	GRB	51,413
EDDIE, B	BEDSONIA VIRUSES	RO1AI 04759-06	VM	30,988
EDMUNDS, L HENRY, JR	EFFECT OF EXTRACORPOREAL CIRCULATION ON THE LUNG	RO1HE 11231-02	SGYA	43,678
EDMUNDS, L HENRY, JR	EFFECT OF CHRONIC PULMONARY ARTERY OCCLUSION ON LUNG	RO1HE 11358-02	SGYA	47,522
EGER, EDMOND I, II	COMPARATIVE CARDIOVASCULAR EFFECTS OF ANESTHETICS	RO1HE 07946-06	SGYB	47,967
EINSTEIN, ELIZABETH R	PROPERTIES OF ENCEPHALOMYELITIS PROTEINS	RO1NB 02545-09	IMB	47,150
ELIAS, JOEL J	EFFECT OF HORMONES ON MAMMARY GLAND IN ORGAN CULTURE	RO1HD 00142-10	END	4,974
ELLIOTT, HENRY W	MECHANISMS OF ANALGESIA AND ANESTHESIA	RO1NB 00570-22	PHRA	48,502
ENGLEMAN, EPHRAIM P	CLINICO-EPIDEMIOLOGIC STUDIES ARTHRITIS WITH BEDSONIA	RO1AM 10957-02	VR	15,813
EPSTEIN, CHARLES J	PROTEIN AND RNA SYNTHESIS IN MAMMALIAN EMBRYOGENESIS	RO1HD 03132-01A1	HED	29,519
EPSTEIN, JOHN H	ULTRAVIOLET CARCINOGENESIS	RO1CA 06386-07	PTHB	18,553
EPSTEIN, WALLACE V	NATURE OF HUMAN ANTI GAMMA GLOBULINS	RO1AM 01229-12	GM	51,246
EPSTEIN, WILLIAM L	FURTHER STUDIES OF GRANULOMATOUS HYPERSENSITIVITY	RO1AM 07939-06	GMA	29,204
FARQUHAR, MARILYN G	CELL SECRETION AND PERMEABILITY	RO1AM 09090-04	CBY	35,692
FARQUHAR, MARILYN G	STUDIES ON THE MATURATION OF PMN LEUKOCYTES	RO1AM 10486-02	PTHA	18,747
FEATHERSTONE, ROBERT M	INTERACTIONS OF INERT ANESTHETIC GASES WITH PROTEINS	RO1NB 03625-07	BBC	37,381
FINKLE, ALEX L	REVERSIBILITY OF EXPERIMENTAL HYDRONEPHROSIS	RO1HE 07389-05S1	CVA	4,042
FISHMAN, ROBERT A	EXPERIMENTAL METABOLIC ENCEPHALOPATHIES	RO1NB 07336-02	NEUA	70,075
FONG, CHESTER C	AUTORADIOGRAPHIC STUDIES WITH TRANSPLANTED TEETH	RO1DE 02068-04S1	DEN	1,799
FORSHAM, PETER H	GENERAL CLINICAL RESEARCH CENTER	MO1FR 00079-06	CLR	823,182
FORSHAM, PETER H	DYNAMICS OF GROWTH HORMONE REGULATION IN MAN	RO1AM 09615-03	END	34,365
FRICK, OSCAR L	A STUDY OF THE CELLS PRODUCING ANTIBODIES TO ALLERGENS	RO1AI 08333-01	IMB	27,325

TABLE 2—RESEARCH GRANTS, BY AREA, INSTITUTION, AND PRINCIPAL INVESTIGATOR

INVESTIGATOR	PROJECT TITLE	GRANT NO	IRG	DOLLARS
CALIFORNIA—(CON.)				
FRIEND, DANIEL S	THE GOLGI APPARATUS AND INTRACELLULAR TRANSPORT	RO1GM 15727-01	CBY	18,733
FUDENBERG, H HUGH	GM, INV AND RHEUMATOID FACTORS IMMUNOCHEMICAL STUDIES	RO1AM 08527-05	ALY	35,684
FUDENBERG, H HUGH	ISOAGGLUTININ SIZE - RELATION TO ABD HEMOLYTIC DISEASE	RO1HE 05997-08	HEM	55,103
FUKUYAMA, KIMIE	CYTOCHEMICAL STUDIES ON THE KERATINIZATION PROCESS	RO1AM 12433-01	GMA	30,173
GANONG, WILLIAM F	NEURAL AND HUMORAL CONTROL OF ENDOCRINE FUNCTION	PO1AM 06704-05S1	AMP	905
GANONG, WILLIAM F	NEURAL AND HUMORAL CONTROL OF ENDOCRINE FUNCTION	PO1AM 06704-06	AMP	141,695
GASSEL, M MICHAEL	STUDY OF THE EXCITABILITY OF SPINAL MOTONEURONS	RO1NB 07562-01	NEUB	34,479
GOLDFIEN, ALAN	HORMONE PRODUCTION BY THE OVARY, PLACENTA AND ADRENAL	RO1HD 00640-05	END	16,409
GOLDSMITH, ROBERT S	ASSAY AND ISOLATION OF DENGUE VIRUS IN TISSUE CULTURE	R22AI 07871-02	SSS	28,856
GOODMAN, JOEL W	STRUCTURE OF IMMUNOLOGIC DETERMINANTS OF PROTEINS	RO1AI 05664-05	ALY	43,935
GORDAN, GILBERT S	IDENTIFICATION OF OSTEOLYTIC STEROL IN CANCER	RO1CA 10166-02	GMB	24,098
GORDAN, GILBERT S	COOPERATIVE STUDY IN BREAST CANCER HORMONE THERAPY 196	RI0CA 03489-11A1	SRC	47,649
GOYAN, JERE E	GENERAL RESEARCH SUPPORT GRANT	S01FR 05453-06	NSS	85,308
GREENBERG, DAVID M	CANCER CHEMOTHERAPY BY ANTIMETABOLITES AND ENZYMES	RO1CA 02915-12	PHRB	42,271
GREENBERG, DAVID M	ISOTOPIC TRACER AND ENZYME STUDIES IN CANCER	RO1CA 03175-12	PHRB	48,825
GREENBERG, LOUIS D	CHEMISTRY AND PATHOLOGY OF NUTRITIONAL DEFICIENCIES	RO1AM 00645-14	PTHB	48,141
GREENSPAN, FRANCIS S	ETIOLOGY OF GOITER	RO1AM 04818-07	END	31,358
GRODSKY, GEROLD M	DISTRIBUTION AND METABOLISM OF BILIRUBIN H3	RO1AM 06115-07	MET	43,394
GRODSKY, GEROLD M	INSULIN INDUCED IMMUNE DIABETES	RO1AM 11182-02	PTHB	48,003
GRUMBACH, MELVIN M	HORMONAL EFFECTS ON GROWTH AND MATURATION	RO1HD 02335-03	END	60,351
GULYASSY, PAUL F	MECHANISM OF ACTION OF ANTIDIURETIC HORMONE	RO1AM 12638-01	GMB	28,083
HALL, ALBERT O	EXTRACRANIAL ARTERIAL OCCLUSION - JOINT STUDY	RO1HE 11128-02	SRC	61,700
HARRIS, JOHN B	BIOCHEMICAL ASPECTS OF ELECTROLYTE TRANSPORT	RO1HE 08235-05	BIO	31,802
HARVOLD, EGIL P	EXPERIMENTAL STUDY ON ETIOLOGY OF DENTAL MALOCCLUSION	RO1DE 02739-01	DEN	34,640
HARVOLD, EGIL P	CLINICAL EVALUATION OF THE ANDRESEN ACTIVATOR	RO1HD 00147-01	DEN	41,531
HAYASHIDA, TETSUO	IMMUNOBIOLOGICAL STUDIES WITH PITUITARY HORMONES	RO1AM 03550-09	IMB	41,974
HINMAN, FRANK, JR	MICTURITION PHYSIOLOGY AND THE BLADDER DEFENSES	RO1AM 10045-02S1	SGYA	2,915
HINMAN, FRANK, JR	MICTURITION PHYSIOLOGY AND THE BLADDER DEFENSES	RO1AM 10045-03	SGYA	30,381
HOLLIDAY, MALCOLM A	MECHANISM OF ACTION OF ANTIDIURETIC HORMONE	RO1AM 11316-01S1	GMB	5,518
HOLLIDAY, MALCOLM A	KIDNEY STRUCTURE & FUNCTION IN GROWTH & HYPERTROPHY	RO1AM 11595-02	GMB	21,857
HOYT, WILLIAM F	STUDY OF NERVE FIBERS IN THE ANTERIOR VISUAL SYSTEM	RO1NB 03951-07	VIS	28,535
INESI, GIUSEPPE	SARCOPLASMIC MEMBRANE REGULATION OF CALCIUM	RO1HE 09878-03	PHY	19,282
JAWETZ, ERNEST	VIRAL KERATOCONJUNCTIVITIS AND RELATED DISORDERS	RO1NB 06004-14	VR	82,850
JONES, MALCOLM D	RADIOGRAPHY & PATHOLOGY OF SPINE AGING	RO1HD 00407-06	PME	10,490
JORGENSEN, EUGENE C	PEPTIDE HORMONE ANALOGS	RO1AM 08066-05	MCHA	30,285
KELLOGG, RALPH H	RESPIRATION DURING ALTITUDE ACCLIMATIZATION	RO1GM 09262-07	AFY	15,761
KOUNTZ, SAMUEL L	PATHOPHYSIOLOGY OF CLINICAL ORGAN TRANSPLANTATION	PO1AM 11290-02	AMP	203,119
KOUNTZ, SAMUEL L	RENAL MECHANISMS IN THE TREATMENT OF UREMIA	RO1HE 11772-01	SGYA	55,753
KRAMER, MARLENE F	ANTICIPATORY SOCIALIZATION AND CHOSEN WORK LOCALE	RO2NU 00273-01	NR	34,358
KUN, ERNEST	BIOCHEMICAL MECHANISM OF KIDNEY HYPERTROPHY	RO1CA 07955-04	BIO	24,369
KUN, ERNEST	ENZYME MECHANICAL BASIS OF SELECTIVE TOXICITY	RO1HD 01239-12	BIO	32,193
LAYZER, ROBERT B	ENZYME STUDIES IN PHOSPHOFRUCTOKINASE MYOPATHY	RO1AM 12588-01	PC	19,052
LEVINSON, WARREN E	EFFECT OF TUMOR VIRUS INFECTION ON CELL BEHAVIOR	RO1CA 10223-01	VR	28,904
LEVINTOW, LEON	MOLECULAR MECHANISMS OF VIRUS REPLICATION	RO1AI 06862-03	VR	74,732
LEVY, LOUIS	MECHANISM OF DRUG-INDUCED VITAMIN B6 DEFICIENCY	RO1AM 10382-03	PHRA	23,736
LI, C H	PITUITARY LACTOGENIC AND GONADOTROPIC HORMONES	RO1AM 06097-14	END	53,216
LI, CHOH HAO	ACTH AND RELATED PEPTIDES	RO1GM 02907-17	END	85,823
LIBET, BENJAMIN	SYNAPTIC TRANSMISSION IN AUTONOMIC GANGLIA	RO1NB 00884-12	PHY	24,750
LIE, KIAN J	SCHISTOSOME CONTROL BY TREMATODE ANTAGONISM-PILOT TRIAL	R22AI 08520-01	SSS	15,985
LIN, TEH P	MICRURGICAL STUDIES ON THE DEVELOPMENT OF MOUSE EGGS	RO1HD 02186-03	CBY	24,927
LINSCOTT, WILLIAM D	RABBIT COMPLEMENT AND ITS ROLE IN IMMUNE REACTIONS	RO1AI 06464-03S1	ALY	12,000
LONN, LAWRENCE I	STUDIES ON RETINAL LATTICE DEGENERATION	RO1NB 07513-01	VIS	19,544
LUDOWIEG, JULIO J	CHEMICAL STRUCTURE AND PROPERTIES OF MUCOPROTEINS	RO1AM 10126-03	PC	25,379
LYONS, WILLIAM R	HORMONAL CONTROL OF GESTATION AND LACTATION	RO1HD 02371-02	END	20,136
MC EWEN, WILLIAM K	RHEOLOGY OF THE EYE	RO1NB 05451-03S1	VIS	30,495
MC EWEN, WILLIAM K	RHEOLOGY OF THE EYE	RO1NB 05451-04	VIS	49,731
MC KAY, DONALD G	THE SHWARTZMAN REACTION AND CARDIOVASCULAR DISEASE	RO1HE 11190-02	ALY	58,636
MC KAY, DONALD G	PATHOLOGY OF THE MICROCIRCULATION	RO1HE 12033-01	PTHA	29,088
MELMON, KENNETH L	VASOACTIVE PEPTIDES IN ENDOTOXIN SHOCK	RO1HE 09964-03	PHRA	36,797
MEYER, K F	BEDSONIA IN HUMAN ARTHRITIS ISOLATION, CHARACTERIZATION	RO1AI 07698-02	VR	44,177
MILLER, EARL R	OROPHARYNGEAL FUNCTION X-RAY AND SOUND CORRELATION	RO1HD 01843-04	DEN	36,983
MILLER, MALCOLM R	THE COCHLEAR DUCT	RO1NB 05532-04	CMS	26,356
MITCHELL, ROBERT A	REGULATION OF CSF H ₂ O AND ITS EFFECT ON RESPIRATION	RO1GM 05881-10	PHY	19,412
MONIE, IAN W	STUDIES OF MULTIPLE CONGENITAL ABNORMALITIES	RO1HD 00419-13	HED	44,765
MOON, HENRY D	MECHANISMS OF NORMAL AND ABNORMAL GENE REGULATION	RO1GM 15934-01	GEN	47,196
MOON, HENRY D	CONNECTIVE TISSUE REACTIONS IN ARTERIOSCLEROSIS	RO1HE 01542-15	PTHA	31,185
MORALES, MANUEL F	MOLECULAR ASPECTS OF MUSCLE FUNCTION	RO1GM 14076-03	PC	89,493
MORRIS, R CURTIS	RENAL TUBULAR FUNCTION IN HYPERGLOBULINEMIC STATES	RO1HE 10044-03S1	GMB	11,673
MUIRHEAD, J FRASER	MECHANISMS OF PHENOTHIAZINE RETINAL TOXICITY	RO1NB 05010-05	VIS	30,867
MYERS, HOWARD M	STRUCTURE ACTIVITY RELATIONSHIPS OF ANTICARIES AGENTS	RO1DE 02663-02	DEN	22,098
NAHM, HELEN	AN EXPERIMENT IN NURSING CURRICULUMS AT A UNIVERSITY	RO2NU 00072-05	NR	90,596
NAHM, HELEN	FACULTY RESEARCH DEVELOPMENT GRANT	RO2NU 00177-03	NR	35,077
NEWBRUN, ERNEST	MUCOPROTEIN BIOSYNTHESIS BY SUBMAXILLARY GLAND	RO1DE 02512-02	DEN	8,698

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INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRG	DOLLARS
CALIFORNIA—(CON.)				
O REILLY, SEAN	ESTABLISHMENT OF A STROKE RESEARCH PROGRAM	P02NB 07769-01	NBPA	99,244
O REILLY, SEAN	RADIOCOPPER AND RADIOIRON STUDIES IN WILSONS DISEASE	RO1NB 07102-02	PTHA	33,839
OFENGAND, JAMES	STUDIES ON THE MECHANISM OF PROTEIN SYNTHESIS	RO1GM 11506-05	BIO	33,375
OWENS, ELMER	TESTING PHONEMIC CONFUSION WITH MONOSYLLABIC WORDS	RO1NB 06532-02	CMS	20,866
PAGE, ERNEST W	PHYSIOLOGY AND BIOCHEMISTRY OF HUMAN PLACENTA	RO1HD 00470-12	HED	31,370
PAVONE, BEN W	GENERAL RESEARCH SUPPORT GRANT	SO1FR 05305-07	NSS	81,997
PETRAKIS, NICHOLAS L	CULTIVATION OF LEUKOCYTES IN DIFFUSION CHAMBERS	RO1CA 05485-07S1	HEM	3,228
PETRAKIS, NICHOLAS L	CULTIVATION OF LEUKOCYTES IN DIFFUSION CHAMBERS	RO1CA 05485-08	HEM	55,176
PETZ, LAWRENCE D	AUTOIMMUNE HEMOLYTIC ANEMIA ROLE OF FOREIGN ANTIGENS	RO1AI 08188-01	HEM	29,176
POLLYCOVE, MYRON	METABOLISM IN VITAMIN B12 AND FOLIC ACID DEFICIENCY	RO1AM 06520-05S1	HEM	7,796
ROSENAU, WERNER	THE LYMPHOCYTE AND IMMUNE CYTOLYSIS	RO1CA 07191-05	IMB	23,796
SCHMID, RUDI	STUDIES OF BILE PIGMENT METABOLISM	RO1AM 11275-02	HEM	132,909
SCHMID, RUDI	STUDIES IN EXPERIMENTAL AND HUMAN PORPHYRIA	RO1AM 11296-02	GMA	71,338
SHAFFER, ROBERT N	GLAUCOMA CONFERENCE	R13NB 08069-01	NSS	20,000
SHIPP, FREDERIC T, JR	STUDIES IN THE PHYSIOLOGY OF PHONATION	RO1NB 07482-01	CMS	68,577
SHNIDER, SOL M	SPINAL ANESTHESIA IN OBSTETRICS	RO1GM 14779-01	HED	26,722
SILVERMAN, SOL, JR	ULTRASTRUCTURE OF NORMAL AND LEUKOPLAKIC ORAL MUCOSA	RO1DE 02292-03	DEN	14,715
SINGER, THOMAS P	BIOLOGICAL OXIDATIONS IN HEART AND OTHER TISSUES	RO1HE 10027-03	BIO	84,600
SLATON, PAUL E	RELATION OF RENIN TO VOLUME, PRESSURE, IONS, STEROIDS	RO1HE 11046-02	GMB	14,512
SMITH, LLOYD H, JR	INBORN ERRORS OF METABOLISM	RO1AM 09406-05	MET	83,663
SMITH, RONALD W	CARDIO-VASCULAR ALTERATIONS IN TOXEMIC PREGNANCY	RO1HE 09547-03S1	HED	3,110
SMITH, RONALD W	CARDIOVASCULAR ALTERATIONS IN TOXEMIC PREGNANCY	RO1HE 09547-04	GMB	34,208
SOOY, FRANCIS A	WESTERN TEMPORAL BONE BANKS CENTER	P01NB 06347-03	CMS	13,060
SPINELLI, JOSEPH S	IMPROVING LABORATORY ANIMAL FACILITIES AND SERVICES	P06FR 00428-01	AR	71,396
STARKWEATHER, JOHN A	ELECTRONIC COMPUTER TRAINING AND RESEARCH FACILITY	P07FR 00122-07	COM	109,878
STEINBACH, HOWARD L	ROENTGEN EVALUATION OF DISEASE	RO1AM 02589-10	RAD	16,489
STRAUSS, ANSELM L	HOSPITAL PERSONNEL, NURSING CARE, AND DYING PATIENTS	RO2NU 00047-07	NR	10,986
TARCHER, ALYCE B	METABOLISM OF TRIGLYCERIDES IN LIVER AND PLASMA	RO1AM 09841-03	MET	26,928
TARVER, H	METABOLISM OF PLASMA PROTEINS	RO1AM 11369-14	MET	58,922
THALER, M MICHAEL	BILIRUBIN METABOLISM DURING THE PERINATAL PERIOD	RO1HD 03148-01	HED	44,139
THOMAS, ARTHUR N	HYPERBARIC OXYGEN IN CEREBROVASCULAR INSUFFICIENCY	RO1HE 08657-03S1	SGYB	13,295
THYGESON, PHILLIPS	STUDIES ON IMMUNOLOGIC DISEASES OF THE EYE	P01NB 06207-03	NBPB	372,340
TIERNY, DONALD F	LUNG METABOLISM, MECHANICS AND SURFACTANT	RO1HE 11776-01	MET	40,219
TREVOR, ANTHONY J	EFFECT OF XENON ON CEREBRAL ARTICULATE SYSTEMS	RO1GM 13835-03	BBCB	19,718
TU, WU-HAO	HUMORAL PRESSOR AGENTS IN ACUTE TUBULAR NECROSIS	RO1HE 07948-07	CVA	19,269
WARE, WILLIAM H	EVALUATION OF TEMPOROMANDIBULAR ARTICULATION	RO1DE 01647-06	DEN	17,792
WAY, E LEONG	METABOLISM OF BASIC AMINES OF THERAPEUTIC INTEREST	RO1GM 01839-20	PHRA	41,751
WISSIG, STEVEN L	ULTRASTRUCTURAL STUDIES OF PERMEABILITY AND SECRETION	RO1HE 04512-09	CBY	40,697
WOLFF, MANFRED E	SYNTHETIC CARDIAC GLYCOSIDES AND AGLYCONES	RO1HE 09578-03	MCHA	24,581
WOOD, DAVID A	WESTERN CANCER CHEMOTHERAPY COOPERATIVE GROUP	RO1CA 03485-12	SRC	71,229
WOODSON, BRUCE A	THE MOLECULAR BASIS OF INHIBITION BY IBT	RO1AI 08293-01A1	VR	29,740
WYLIE, EDWIN J	EXTRACRANIAL ARTERIAL OCCLUSION - JOINT STUDY	RO1HE 04850-09	NSS	46,255
YANG, JEN TSI	OPTICAL ROTATORY POWER OF PROTEINS AND POLYPEPTIDES	RO1GM 10880-09	BBC	40,099
INSTITUTION TOTAL	174	11,411,934		
CHILDREN'S HOSPITAL AND ADULT MEDICAL CENTER OF SAN FRANCISCO				
AGGELER, PAUL M	HEMOSTATIC MECHANISMS CLOTTING FACTORS	RO1HE 02754-12	HEM	66,355
GILFILLAN, RUTHERFORD S	POST-SYMPLECTOMY BLOOD FLOW	RO1HE 09615-04	CVA	22,647
LINDER, DAVID	GENETIC STUDIES OF HUMAN TUMORS	RO1CA 10107-02	GEN	20,071
MACKBY, MAXWELL J	MASSIVE SMALL BOWEL RESECTIONS	RO1AM 09512-03	SGYB	29,633
RICHARDS, VICTOR	AN INVESTIGATION OF SOMATIC CELL VARIATION	RO1CA 08613-03	GEN	32,565
RICHARDS, VICTOR	HUMORAL FACTOR IN INTESTINAL REGENERATION	RO1CA 10474-01	CBY	45,108
WALLERSTEIN, RALPH O	STUDIES ON IRON METABOLISM	RO1AM 02887-10	HEM	16,815
WICK, ROLLAND E	GENERAL RESEARCH SUPPORT GRANT	SO1FR 05470-04	NSS	20,465
INSTITUTION TOTAL	8	253,659		
INSTITUTE OF MEDICAL SCIENCES				
ABBOTT, ROBERT P	DEVELOPMENT OF A BIOMEDICAL RESEARCH DATA FACILITY	P07FR 00241-04	COM	207,106
BARBATO, IRIS W	RNA METABOLISM IN HYPOGLYCEMIA AND INSULIN SHOCK	RO1NB 07383-01S1	NEUB	31,000
GERBODE, FRANK	PHYSIOLOGY, GROWTH AND DEVELOPMENT IN CARDIAC SURGERY	P01HE 06311-07	HEP	514,051
GERBODE, FRANK	PILOT COOPERATIVE STUDY OF RESULTS OF CARDIAC SURGERY	RO1HE 10440-02S1	SRC	399
GERBODE, FRANK	COOPERATIVE STUDY OF RESULTS OF CARDIAC SURGERY	RO1HE 10440-03	SRC	57,902
HEYWOOD, J DAVID	INTERMEDIATE STEPS IN HEMOGLOBIN SYNTHESIS	RO1AM 12497-01	HEM	5,730
HEYWOOD, J DAVID	INTERMEDIATE STEPS IN HEMOGLOBIN SYNTHESIS	RO1AM 12497-02	HEM	27,387
HUNDLEY, JAMES M	GENERAL RESEARCH SUPPORT GRANT	SO1FR 05566-05	NSS	181,923
JAMPOLSKY, ARTHUR	NEUROPHYSIOLOGY OF THE VISUAL APPARATUS	P01NB 06038-03	NBPB	294,428
LOWENSTEIN, JEROLD M	BLOOD, URINE AND TISSUE CONCENTRATIONS OF DIGITALIS	RO1HE 10804-02	PHRB	22,718
PERSIDSKY, MAXIM D	CRYOPRESERVATION OF ORGANS AVOIDING THERMAL GRADIENTS	RO1GM 14109-02	SGYA	37,624
YOUNG, BRADFORD W	INFRAVESICAL OBSTRUCTION IN THE NEWBORN	RO1HD 02041-02S1	PTHA	2,027
INSTITUTION TOTAL	12	1,382,295		
IRWIN MEMORIAL BLOOD BANK OF SAN FRANCISCO MEDICAL SOCIETY				
PERKINS, HERBERT A	PRESERVATION OF DONOR BLOOD FOR OPEN HEART SURGERY	RO1HE 05652-08	HEM	25,561
PERKINS, HERBERT A	WHITE CELL ANTIBODIES AND TRANSFUSION REACTIONS	RO1HE 07494-06	HEM	27,980

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INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRG	DOLLARS
CALIFORNIA—(CON.)				
INSTITUTION TOTAL	2	53,541		
KAISER FOUNDATION HOSPITALS -KAISER FOUNDATION RESEARCH INSTITUTE				
LELICH, BRONKO P	ADJUVANT UTERINE CANCER CHEMOTHERAPY	R01CA 07358-05	SRC	850
MICHAELI, DOV	IMMUNOENZYMOLGY OF ACETYLCHOLINESTERASE	R01ES 00037-03S1	TOX	497
MICHAELI, DOV	IMMUNOENZYMOLGY OF ACETYLCHOLINESTERASE	R01ES 00037-04S1	TOX	7,092
INSTITUTION TOTAL	3	8,439		
MOUNT ZION HOSPITAL AND MEDICAL CENTER				
BERKE, MARK	GENERAL RESEARCH SUPPORT GRANT	S01FR 05472-06	NSS	66,273
BURTON, STANLEY D	HOMEOSTATIC PATTERNS IN SURVIVING LIVER	R01AM 09485-12	MET	45,904
FREED, S CHARLES	TISSUE COMPARTMENT ELECTROLYTES AND CIRCULATION	R01HE 01006-17	CVA	28,144
FRENCH, FREDERIC A	CHEMOTHERAPY OF EXPERIMENTAL MOUSE TUMORS	R01CA 03287-10	PHRB	80,405
FRIEDMAN, MEYER	EXCRETION AND DESTRUCTION OF CHOLESTEROL	R01HE 00119-19	MET	92,711
LEEDS, SANFORD E	RELATION OF LYMPHATICS TO CARDIOPULMONARY FUNCTION	R01HE 03180-11	SGYB	32,807
LIBET, BENJAMIN	CENTRAL PROCESSES IN SENSATION & MOTOR CONTROL IN MAN	R01NB 05061-04	NEUA	52,218
PALEY, HYMAN W	LEFT VENTRICULAR VOLUME IN MAN	R01HE 09581-03	CVB	16,203
ROSENBAUM, ERNEST H	THE EFFECT OF SALIVARY PROTEIN ON MESENCHYMAL TISSUE	R01HD 02246-02	DEN	23,400
ROSENMAN, RAY H	CENTRAL NERVOUS SYSTEM AND CORONARY HEART DISEASE	R01HE 03429-09	DC	63,792
INSTITUTION TOTAL	10	501,857		
P H S BUREAU OF HEALTH SERVICES-PHS HOSPITAL				
EDELMAN, ISIDORE S	UNIV CALIF - U S P H S HOSP RESEARCH DIALYSIS CENTER	P02AM 10642-03	AMP	114,374
HYATT, KENNETH H	MYOCARDIAL MAGNESIUM METABOLISM AND CARDIAC FUNCTION	R01HE 08007-05	CVB	18,009
LEVY, LOUIS	PHARMACOLOGIC STUDIES IN LEPROSY	R01AI 06818-03	PHRB	14,696
LEVY, LOUIS	PHARMACOLOGY AND BIOLOGY OF EXPERIMENTAL LEPROSY	R22AI 07801-02	SSS	50,444
MC MILLAN, DONALD E	SERUM GLYCOPROTEINS IN DIABETIC VESSEL DISEASE	R01AM 09677-03	GM	17,040
NICHAMAN, MILTON Z	COOPERATIVE STUDY OF DRUGS AND CORONARY HEART DISEASE	R01HE 10445-03	SRC	74,574
RICHARDSON, JAMES A	COOPERATIVE STUDY OF RENAL DISEASE & HYPERTENSION	R01HE 09756-04	SRC	45,317
ROLLER, FRANKLIN D	DEVELOPMENT OF A T-TUBE ARTERIO-VEINUS DIALYSIS SHUNT	R01HE 11570-01	SGYA	33,346
SMITH, WILLIAM M	COOPERATIVE STUDY OF RENAL DISEASE & HYPERTENSION	R01HE 09750-04	SRC	97,671
SMITH, WILLIAM M	COOPERATIVE STUDY OF TREATMENT OF HYPERTENSION	R01HE 10711-02	SRC	20,557
SMITH, WILLIAM M	COOPERATIVE STUDY OF TREATMENT OF HYPERTENSION	R01HE 10712-02	SRC	27,647
VOGEL, JOHN M	RENAL INSULIN CLEARANCE AND DEGRADATION	R01AM 07242-05	END	22,096
INSTITUTION TOTAL	12	535,771		
PACIFIC UNIVERSITY OF THE				
RALSTON, HENRY J	INTRA ORAL SENSATION AND MANDIBULAR MOTION	R01DE 02069-05	DEN	11,906
TOCCHINI, JOHN	GENERAL RESEARCH SUPPORT GRANT	S01FR 05301-07	NSS	31,349
INSTITUTION TOTAL	2	43,255		
SAN FRANCISCO STATE COLLEGE				
BOWEN, SARANE T	GENETIC REGULATION OF HEMOGLOBIN SYNTHESIS IN ARTEMIA	R01HE 11445-01	GEN	25,200
HUNDERFUND, RICHARD C	STIMULATION OF GROWTH & PIGMENT FORMATION IN MYCOBACTERI	R01AI 06973-03	BM	7,239
LING, BING-CHUNG	A CROSS-CULTURAL ATTITUDINAL STUDY OF THE AGED	R01HD 03154-01	CPR	37,188
MILLER, LEO A	HEMOLYSIS BY AN ATP-ACTIVATED HEMOLYTIC FACTOR	R01AM 11341-02	HEM	12,474
INSTITUTION TOTAL	4	82,101		
ST. MARY'S HOSPITAL				
WALL, C ALLEN	MEASUREMENT OF RENAL BLOOD FLOW BY THERMOTOPOGRAPHY	R01HE 10917-02	SGYA	12,363
INSTITUTION TOTAL	1	12,363		
SAN JOSE				
SAN JOSE STATE COLLEGE				
BALLARD, RALPH C	BIOELECTRIC ACTIVITY OF HEARTS	R01HE 10780-02	PHY	12,185
INSTITUTION TOTAL	1	12,185		
SANTA CLARA VALLEY MEDICAL CENTER				
O REILLY, ROBERT A	METABOLISM OF COUMARIN ANTICOAGULANT DRUGS	R01HE 08058-06	PHRA	34,525
TOOLE, J GERALD	DIGITAL COMPUTER ANALYSIS OF THE ECG IN HEART DISEASE	R01HE 10325-03	COM	36,000
INSTITUTION TOTAL	2	70,525		
SAN MATEO				
SAN MATEO COUNTY GENERAL HOSPITAL				
OPLER, STANLEY R	VIRAL ETIOLOGY OF GUINEA PIG LEUKEMIA	R01CA 11086-01	PTHB	18,817
INSTITUTION TOTAL	1	18,817		
SAN RAFAEL				
DOMINICAN COLLEGE OF SAN RAFAEL				
NIMITZ, SISTER M	NUTRIENT STORES IN REPRODUCTION IN SEA INVERTEBRATES	R01GM 12312-04	CBY	1,674
INSTITUTION TOTAL	1	1,674		
SANTA BARBARA				
CALIFORNIA UNIVERSITY OF AT SANTA BARBARA				
BAKER, BERNARD R	CHEMOTHERAPY WITH IRREVERSIBLE INHIBITORS	R01CA 08695-02S1	PHRB	1,800
BAKER, BERNARD R	CHEMOTHERAPY WITH IRREVERSIBLE INHIBITORS	R01CA 08695-03	PHRB	157,800

TABLE 2—RESEARCH GRANTS, BY AREA, INSTITUTION, AND PRINCIPAL INVESTIGATOR

INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRG	DOLLARS
CALIFORNIA—(CON.)				
BRUCE, THOMAS C	ORGANIC STUDIES AND THE MECHANISM OF ENZYME ACTION	R01AM 09171-04	BIO	89,219
BUNTON, CLIFFORD A	MODELS FOR ENZYMIC PHOSPHORYLATION AND HYDROLYSES	R01AM 10742-02	BIO	44,749
CASSMAN, MARVIN	INDUCED CONFORMATIONAL CHANGES IN MALIC DEHYDROGENASE	R01AM 12681-01	BBCA	53,224
CUSHING, JOHN E	THE COMPARATIVE IMMUNOLOGY OF LOWER ORGANISMS	R01AI 07514-02	IMB	18,900
ENGLESBERG, ELLIS	BIOMEDICAL SCIENCES SUPPORT	S05FR 07099-02	NSS	67,803
GERIG, JOHN T	CONFORMATIONAL STUDIES OF C13-LABELED POLYPEPTIDES	R01GM 14692-02	BBCB	13,289
HARBURY, HENRY A	STRUCTURE AND FUNCTION OF THE CYTOCHROMES C	R01GM 15379-01	BIO	77,843
KENDLER, TRACY S	ACQUISITION AND EXTINCTION OF MEDIATING RESPONSES	R01HD 01361-04	EXP	22,302
LEE, NANCY L	GENETIC CONTROL OF PROTEIN SYNTHESIS IN E COLI	R01GM 14652-02	GEN	22,022
MC CLINTOCK, CHARLES G	DEVELOPMENT OF COOPERATIVE AND COMPETITIVE MOTIVES	R01HD 03258-01	NP	30,275
NAKADA, HENRY I	METABOLISM OF MUCOPOLYSACCHARIDES	R01AM 06740-07	PC	21,600
REYNOLDS, ROBERT W	ELECTROLYTIC LESIONS IN THE CENTRAL NERVOUS SYSTEM	R01NB 05583-04	NEUA	21,132
SANTI, DANIEL V	CHEMOTHERAPY WITH INHIBITORS OF PROTEIN SYNTHESIS	R01CA 10266-02	PHRB	39,437
SANTI, DANIEL V	MECHANISM OF THYMIDYLATE SYNTHETASE - MODEL STUDIES	R01CA 10499-01	MCHB	23,620
INSTITUTION TOTAL	16	705,015		
SANTA CLARA				
SANTA CLARA UNIVERSITY OF				
MANDELL, JOSEPH D	MECHANISM OF INDUCED MUTATION IN BACTERIA	R01CA 08549-03S1	GEN	1,110
MANDELL, JOSEPH D	MECHANISM OF INDUCED MUTATION IN BACTERIA	R01CA 08549-04	GEN	33,808
INSTITUTION TOTAL	2	34,918		
SANTA CRUZ				
CALIFORNIA UNIVERSITY OF AT SANTA CRUZ				
BUNNETT, JOSEPH F	AROMATIC NUCLEOPHILIC SUBSTITUTION REACTIONS	R01GM 14647-02	MCHA	39,525
HILL, TERRELL L	APPLICATION OF STATISTICAL THERMODYNAMICS IN BIOLOGY	R01GM 15648-01	BBCB	26,384
INSTITUTION TOTAL	2	65,909		
SANTA MONICA				
RAND CORPORATION				
DE LAND, EDWARD C	COMPUTER RESEARCH FOR BIOMEDICAL GRAPHICS	R01GM 15896-01	COM	222,767
PERKEL, DONALD H	STOCHASTIC MODELS OF NEURAL SYSTEMS	R01NB 07325-02	SSS	55,632
INSTITUTION TOTAL	2	278,399		
ST. JOHN'S HOSPITAL				
DUBBS, CLYDE A	TRANSVERSE GRADIENT ELECTROPHORESIS	R01CA 10117-02	BBCA	18,965
INSTITUTION TOTAL	1	18,965		
SYSTEM DEVELOPMENT CORPORATION				
OLNEY, JOHN C	AN INVESTIGATION OF ENGLISH DISCOURSE STRUCTURE	R01LM 00065-02	SSR	29,998
INSTITUTION TOTAL	1	29,998		
SELMA				
AMERICAN MOSQUITO CONTROL ASSOCIATION				
COLLINS, DONALD L	PUBLICATION OF BIBLIOGRAPHY OF MEDICAL ENTOMOLOGY	R01LM 00087-03	BCM	2,000
INSTITUTION TOTAL	1	2,000		
STANFORD				
STANFORD UNIVERSITY				
ALWAY, ROBERT H	FAMILY ILLNESS BEHAVIOR	R01HD 03662-01	DBR	4,199
ANGELL, WILLIAM W	AUTOLOGOUS PULMONIC VALVE TO REPLACE THE AORTIC VALVE	R01HE 10085-02	SGYA	23,284
ARONOW, LEWIS	DRUG RESISTANCE IN MOUSE CELLS CULTURED IN VITRO	R01CA 05672-07	PHRB	39,958
ASCHHEIM, EMIL	MICROCIRCULATION IN NORMAL AND DISEASED SKIN	R01HE 03833-09	GM	32,476
BAGSHAW, MALCOLM A	MODIFICATION OF RADIATION RESPONSE OF CELLS IN VITRO	R01CA 04542-10	RAO	18,586
BALDESCHWIELER, JOHN D	NMR STUDIES OF BIOMOLECULES USING HALIDE ION PROBES	R01GM 14752-02	BBCB	47,033
BALDWIN, ROBERT L	PHYSICAL STUDIES OF NUCLEIC ACIDS AND PROTEINS	R01AM 04763-08	BBCA	64,301
BERG, PAUL	NUCLEIC ACID STRUCTURE AND FUNCTION	R01GM 13235-03	BIO	116,204
BERNFELD, MERTON R	RIBONUCLEASE AND OLIGORIBONUCLEOTIDE SYNTHESIS	R01GM 15086-02	PC	22,918
BIRZIS, LUCY	CEREBRAL IMPEDANCE AND HOMEOSTASIS	R01NB 07267-02	NEUB	50,538
BLOIS, MARSDEN S, JR	MOLECULAR BIOLOGY OF HUMAN SKIN PIGMENTATION	R01CA 08064-04	BBCB	74,954
BOOMER, WALTER F	GENETICS OF HUMAN TISSUE ANTIGENS	R01GM 14650-02	GEN	53,340
BONNER, WILLIAM A	STRUCTURE & PHYSIOLOGICAL BEHAVIOR OF TREMETOL	R01GM 06232-09	PHRA	27,409
BUNKER, JOHN P	QUANTITATIVE STUDY OF ANESTHETIC AND RELATED DRUGS	P01GM 12527-03S1	GMP	3,530
BUNKER, JOHN P	QUANTITATIVE STUDY OF ANESTHETIC AND RELATED DRUGS	P01GM 12527-04	GMP	214,466
BUNNENBERG, EDWARD	NEW INSTRUMENTATION METHODS IN STRUCTURE ELUCIDATION	R01GM 12173-05	BBCA	31,085
BURDA, DORIS J	CEREBROVASCULAR RESPONSE TO EMBRYONIC OVERGROWTH	R01HD 01679-03	HED	7,453
CAMPBELL, ALLAN M	GENETICS OF LAMBDA PROPHAGE	R01AI 08573-01	GEN	107,634
CAMPBELL, FERRELL R	ENUCLEATION IN ERYTHROCYTES	R01AM 11784-01	HEM	16,786
CANN, HOWARD M	GENETIC STUDIES IN THE LAKE ATITLAN BASIN, GUATEMALA	R01GM 15593-02	GEN	86,092
CHASE, ROBERT A	ASSESSMENT & THERAPY IN PALATOPHARYNGEAL INCOMPETENCE	R01DE 02803-06	CMS	29,783
CHOW, KAO L	NEUROLOGY OF LEARNING AND VISION	R01NB 03816-08	NEUA	23,423
CHRISTENSEN, ALBERT K	FINE STRUCTURE OF THE VERTEBRATE TESTIS	R01HD 01512-04	REB	36,626
CLAYTON, RAYMOND B	HORMONAL FACTORS IN BEHAVIORAL DEVELOPMENT	R01HD 00801-04S1	PMY	7,042
CLAYTON, RAYMOND B	HORMONAL FACTORS IN BEHAVIORAL DEVELOPMENT	R01HD 00801-05	DBR	49,027

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INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRG	DOLLARS
CALIFORNIA—(CON.)				
COHEN, STANLEY N	GENETIC CONTROL OF EPISOMAL DRUG RESISTANCE FACTORS	ROIJA 08619-01	BIO	69,535
COHN, ROY B	CIRCULATION IN ALLOGRAFTED KIDNEYS	ROIHE 02278-12	SGYB	30,543
CORNISWET, TOM N	SPATIAL INTERACTION IN THE STABILIZED RETINAL IMAGE	ROI NB 07875-01	VIS	13,550
DALLMAN, PETER R	DEVELOPMENTAL INFLUENCES ON TISSUE HEMEPROTEIN	ROIHE 10050-03	HEM	1,650
DANTZIG, GEORGE B	COMPUTER SOLUTIONS OF COMPLEX MODELS IN BIOLOGY	ROI GM 14789-01A1	SSS	36,476
DAVIDSON, JULIAN M	ROLE OF THE BRAIN IN MALE AND FEMALE REPRODUCTION	ROI HD 00778-05	REB	61,066
DIERASSI, CARL	MASS SPECTROMETRY IN ORGANIC AND BIO CHEMISTRY	ROI AM 04257-08	MCHA	67,490
DIERASSI, CARL	STEROID STUDIES	ROI CA 07195-05	MCHA	59,234
DIERASSI, CARL	RESEARCH ON TERPENOID	ROI GM 06840-10	MCHA	43,905
DIERASSI, CARL	RESEARCH ON ALKALOIDS AND RELATED NATURAL PRODUCTS	ROI GM 11309-05	MCHA	51,334
DONG, EUGENE, JR	ARRHYTHMIA RECOGNITION AFTER CARDIAC SURGERY	ROI HE 11022-02	SGYA	20,451
DREIBACH, ROBERT H	SECRETION OF CALCIUM BY SALIVARY GLANDS	ROI DE 00794-08	DEN	4,954
DRONKERT, ADRIAN	NATURE OF GONADOTROPIN INHIBITED SUBSTANCES	ROI AM 07882-05	REB	18,680
EISENSON, JON	RESEARCH PROGRAM OF APHASIC INVOLVEMENTS IN CHILDREN	P15NB 07514-01	NBPB	121,948
ELDRIDGE, FREDERIC L	METABOLIC STUDIES ON MECHANISM OF DYSPNEA	ROI HE 03224-10	AFY	25,655
FARQUHAR, JOHN W	PLASMA LIPOPROTEINS COMPOSITION AND METABOLISM	ROI AM 05972-07	MET	49,954
FARQUHAR, JOHN W	LIPID-METABOLISM CARBOHYDRATE & GLYCERIDE METABOLISM	ROI HE 08506-05	MET	39,925
FEIGEN, GEORGE A	MODE OF ACTION OF MARINE TOXINS	ROI GM 13942-03	TOX	16,530
FEIGEN, GEORGE A	ANAPHYLAXIS IN THE ISOLATED HEART	ROI HE 03693-09	IMB	27,734
FORREST, IRENE S	PHENOTHIAZINE METABOLISM IN THE NEWBORN	ROI HD 02693-02	PHRA	25,380
FREDRICKSON, JOHN M	FUNCTIONAL ORGANIZATION OF THE VESTIBULAR CORTEX	ROI NB 07087-02	CMS	30,727
FRENSTER, JOHN H	CONTROL OF DNA TEMPLATE FUNCTION IN LEUKEMIC CELLS	ROI CA 10174-02	PHRB	38,826
GANESAN, ADAYAPALAM T	DNA SYNTHESIS AND GENETIC RECOMBINATION IN B SUBTILIS	ROI GM 14108-03	PC	40,781
GANZ, LEO	RECEPTIVE FIELD SHAPE AND VISUAL FORM DISCRIMINATION	ROI NB 07330-01	VIS	9,955
GARDNER, KENNETH D, JR	COLLECTING TUBULE PERMEABILITY IN THE MAMMAL	ROI AM 06593-06	PHRA	19,409
GARDNER, KENNETH D, JR	CYSTIC DISEASE OF THE RENAL MEDULLA	ROI HE 11962-01	PTHA	45,905
GERSTL, BRUNO	POLYUNSATURATED FATTY ACIDS IN BLOOD OF MS PATIENTS	ROI NB 03821-06	MET	25,048
GLASER, ROBERT J	GENERAL CLINICAL RESEARCH CENTER	MOI FR 00070-06	CLR	957,000
GLASER, ROBERT J	GENERAL RESEARCH SUPPORT GRANT	SOI FR 05353-07	NSS	446,591
GLICK, DAVID	TECHNIQUES OF QUANTITATIVE HISTO- AND CYTOCHEMISTRY	ROI GM 09227-07	PTHB	68,248
GLICK, DAVID	TECHNIC AND APPLICATIONS OF LASER MICROPROBE ANALYSIS	ROI GM 16181-01	SSS	158,223
GLICK, DAVID	QUANTITATIVE HISTOCHEMISTRY OF CARDIOVASCULAR SYSTEM	ROI HE 06716-08	PTHB	60,438
GOLDSTEIN, AVRAM	CELLULAR MECHANISMS OF ACQUIRED DRUG RESISTANCE	ROI CA 02797-12	PHRB	24,050
GOODLIN, ROBERT C	PREGNANCY ISOIMMUNIZATION IN THE MOUSE	ROI HD 01287-05S1	IMB	727
GOODLIN, ROBERT C	PREGNANCY ISOIMMUNIZATION IN THE MOUSE	ROI HD 01287-06	IMB	45,034
GOULD, R GORDON	CHOLESTEROL METABOLISM AND HYPOLIPIDEMIC DRUGS	ROI HE 05360-09	PHRA	38,096
GOULD, R GORDON	LIPOPROTEINS - IN VITRO RECONSTITUTION AND BIOSYNTHESIS	ROI HE 08476-05	PC	59,744
GRAY, DONALD J	THE PRENATAL DEVELOPMENT AND GROWTH OF HUMAN BONES	ROI HD 00377-11	HED	23,660
GRAY, GARY M	CARBOHYDRATE DIGESTION AND ABSORPTION BY THE INTESTINE	ROI AM 11270-02	GMA	32,869
GREENBERG, ROBERT E	CARBOHYDRATE AND LIPID METABOLISM DURING DEVELOPMENT	ROI HD 01350-01	HED	24,567
HAMILTON, CHARLES R	STUDY OF NEURAL BASIS OF VISUOMOTOR COORDINATION	ROI NB 06501-03	EXP	20,268
HANAWALT, PHILIP C	REPLICATION AND TRANSCRIPTION OF GENETIC MATERIAL	ROI GM 09901-07	BIO	86,748
HANKS, GERALD E	ENDOTOXIN EFFECTS ON MOUSE COLONY-FORMING UNITS	ROI CA 10882-01	RAD	25,691
HARRISON, DONALD C	CARDIOVASCULAR ADRENERGIC RECEPTORS - EFFECTS OF DRUGS	ROI HE 09058-04	PHRA	39,897
HAYASHI, DONALD T	THE RESPONSE OF OCULAR TISSUES TO VARIOUS DYNAMIC FORCES	ROI NB 06328-03	VIS	40,831
HERNDON, ROBERT M	THE FINE STRUCTURAL ALTERATIONS IN CNS VIRAL DISEASE	ROI NB 07380-01A1	PTHA	72,286
HERSHGOLD, EDWARD J	METABOLISM OF BLOOD COAGULATION PROTEINS	ROI HE 08388-05	HEM	19,312
HERZENBERG, LEONARD A	GENETIC STUDIES WITH MAMMALIAN CELLS	ROI CA 04681-09	GEN	66,232
HERZENBERG, LEONARD A	GENETICS OF IMMUNOGLOBULINS	ROI GM 12075-05	IMB	37,641
HOGNESS, DAVID S	THE STRUCTURE AND ACTIVITY OF NUCLEIC ACIDS	ROI AM 07535-06	IMB	70,134
HOLMAN, HALSTED R	AUTOIMMUNITY AND TRANSPLANTATION IMMUNOLOGY	ROI AM 05425-07	IMB	68,017
JACOBS, EARL E	PHYSICAL CHEMISTRY OF ENZYME SPECIFICITY	ROI HE 07103-07	BIO	30,017
JOHNS, M VERNON, JR	SEQUENTIAL BIOMEDICAL DECISION PROCESSES	ROI GM 14554-02	SSS	30,291
JOHNSON, WILLIAM S	STEROID AND TERPENOID SYNTHESIS AND RELATED STUDIES	ROI AM 03787-09	MCHA	83,910
KAISER, A DALE	BIOCHEMICAL GENETIC STUDIES OF VIRUS MULTIPLICATION	ROI AI 04509-07	VR	61,102
KALLMAN, ROBERT F	EXPERIMENTAL RADIOTHERAPY CELLULAR RESPONSES IN VIVO	ROI CA 03353-12	RAD	16,942
KALMAN, SUMNER M	BIOSYNTHESIS OF CARBAMYL PHOSPHATE	ROI AM 11076-02	BIO	15,827
KAPLAN, HENRY S	CLINICAL RADIOTHERAPY CANCER RESEARCH	PO2CA 05838-07	RAO	617,310
KAPLAN, HENRY S	BIOLOGICAL ASPECTS OF CARCINOGENESIS BY RADIATION	ROI CA 03352-12	PTHB	58,144
KAPLAN, HENRY S	MICROBIOLOGIC-BIOCHEMICAL APPROACHES TO RADIOTHERAPY	ROI CA 06437-07	PC	23,665
KAPLAN, HENRY S	MEGAVOLTAGE RADIOTHERAPY EQUIPMENT DEVELOPMENT	ROI CA 10039-02	NSS	50,000
KAPLAN, HENRY S	PLANNING FOR A LARGE ANIMAL RADIOTHERAPEUTIC CENTER	ROI CA 10813-01	NSS	19,500
KARASEK, MARVIN A	METABOLISM OF PYRIMIDINE NUCLEOTIDES IN SKIN	ROI AM 10332-03	PC	24,771
KARLIN, SAMUEL	STOCHASTIC MODELS IN MEDICINE AND BIOLOGY	ROI GM 10452-05	SSS	77,585
KENNEDY, DONALD	NEURAL ORGANIZATION IN GANGLIA	ROI NB 02944-08	PHY	30,327
KIRKMAN, HADLEY	CARCINOGENESIS AND TUMOR GROWTH IN THE SYRIAN HAMSTER	ROI CA 04516-09	PTHB	41,020
KORNBERG, ARTHUR	BIOSYNTHESIS OF DEOXYRIBONUCLEIC ACID	ROI GM 07581-07	PC	201,005
KORNER, ANNELEISE F	EXPERIMENTAL AND INNATE FACTORS IN EARLY DEVELOPMENT	ROI HD 03591-01	DBR	41,008
KRETCHMER, NORMAN	GENERAL CLINICAL RESEARCH CENTER FOR PREMATURE INFANTS	MOI FR 00081-06	CLR	258,760
KRETCHMER, NORMAN	BIOCHEMICAL STUDIES OF DEVELOPMENT	POI HD 02147-03	HDP	260,806
KRETCHMER, NORMAN	METABOLISM REGULATION DURING DEVELOPMENT	ROI HD 00391-09	MET	40,937
KRISS, JOSEPH P	STUDIES ON LONG-ACTING THYROID STIMULATOR	ROI AM 07642-05	END	47,167
LAWRENCE, DOUGLAS H	A STUDY OF DISCRIMINATION LEARNING	ROI HD 00897-11	EP	9,984

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INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRG	DOLLARS
CALIFORNIA—(CON.)				
LEDERBERG, JOSHUA	ADVANCED COMPUTER FOR MEDICAL RESEARCH	P07FR 00311-02	COM	567,688
LEDERBERG, JOSHUA	GENETICS OF BACTERIA	R01AI 05160-10	GEN	62,608
LEHMAN, I R	PURIFICATION AND PROPERTIES OF DEOXYRIBONUCLEASES	R01GM 06196-08S1	PC	1,555
LEHMAN, I ROBERT	PURIFICATION AND PROPERTIES OF DEOXYRIBONUCLEASES	R01GM 06196-09	PC	86,734
LEIDERMAN, P HERBERT	EARLY CONTACT WITH INFANT AND MATERNAL COMPETENCE	R01HD 02636-02	DBR	74,312
LEVINE, SEYMOUR	DEVELOPMENTAL AND BEHAVIORAL NEUROENDOCRINOLOGY	P01HD 02881-01	HDP	178,705
LUCAS, ZOLTAN J	LYMPHOCYTE DIFFERENTIATION MECHANISM OF BLASTOGENESIS	R01AM 12458-01	HEM	8,410
LUCAS, ZOLTAN J	REGULATORY CONTROL OF LYMPHOCYTE DIFFERENTIATION	R01AM 12458-02	HEM	28,130
LUETSCHER, JOHN A, JR	SECRETION AND EFFECTS OF ADRENOCORTICAL HORMONES	R01AM 03062-09	END	60,566
LUZZATTI, LUIGI	CHROMOSOME IDENTIFICATION IN CONGENITAL ANOMALIES	R01HD 01979-03	GEN	30,050
MAFFLY, ROY H	METABOLIC PATHWAYS ENERGIZING ACTIVE SODIUM TRANSPORT	R01AM 05678-06S1	PHY	3,424
MAFFLY, ROY H	METABOLIC PATHWAYS ENERGIZING ACTIVE SODIUM TRANSPORT	R01AM 05678-07	PHY	41,089
MANSOUR, TAG E	CHEMICAL AGENT EFFECT ON GLYCOLYTIC ENZYMES	R01AI 04214-08	TMP	31,887
MARINKOVICH, VINCENT A	IMMUNOGLOBULIN SYNTHESIS AND IMMUNE ACTIVITY IN VITRO	R01AI 07324-03	ALY	22,093
MASON, G ROBERT	NEURAL CONTROL OF GASTROINTESTINAL ACTIVITY	R01AM 11051-02	SGYB	36,177
MC CONNELL, HARDEN M	PARAMAGNETIC SPIN-LABELED NERVE AND MUSCLE	R01NB 08058-01	BBCB	49,969
MC DEVITT, HUGH O	GENETIC CONTROL OF THE ANTIBODY RESPONSE	R01AI 07757-02	ALY	46,410
MC KHANN, GUY M	BIOCHEMICAL STUDIES OF MYELINATION	R01NB 05300-05	PC	23,197
MERIGAN, THOMAS C	CHEMISTRY OF THE INTERFERON MOLECULE	R01AI 05629-06	VR	53,666
MILLER, JOHN J, III	FUNCTIONS OF LONG-LIVED LYMPHOID CELLS	R01AI 08490-01	IMB	42,262
MOSHER, HARRY S	CHEMISTRY AND PHARMACOLOGY OF TETRODOTOXIN	R01HO 00218-07	PHRA	38,028
MOULTON, ROBERT H JR	BIOMEDICAL SCIENCES SUPPORT	S05FR 07005-03	NSS	98,007
PAUL, BENJAMIN D	MODERNIZATION PROCESS IN THE RURAL COMMUNITY	R01GM 13141-03	SSR	12,424
PAYNE, ROSE O	LEUKOCYTE ANTIGENS AND ANTIBODIES	R01HE 03365-11	GEN	39,920
PERKINS, DAVID D	GENETICS OF NEUROSPORA	R01AI 01462-12	IMB	62,677
PESCH, LE ROY A	MECHANISMS IN CONTROL OF HEPATIC METABOLISM	R0IAM 10680-03	MET	56,980
PHILLIPS, JOHN H	STUDIES IN COMPARATIVE IMMUNOLOGY	R01AI 05098-06S1	IMB	11,212
POOL, JUDITH G	PATHOPHYSIOLOGY OF HEMOPHILIA	R01HE 05280-09	HEM	37,837
PRINCE, DAVID A	CONTROL MECHANISMS IN CORTICAL EPILEPTOGENIC FOCI	R01NB 06477-03	NEUA	31,822
RAFFEL, SIDNEY	MECHANISMS OF ACQUIRED IMMUNITY	R01AI 01178-12	ALY	45,167
RAFFEL, SIDNEY	STUDIES OF THYMIC LYMPHOMA IN C57BL MICE	R01CA 08914-02	PTHB	37,801
RALSTON, HENRY J, III	FINE STRUCTURE OF THE SPINAL CORD	R01NB 06279-03	NEUB	26,518
RATHER, LELAND J	THE LEIBNIZ-STAHN CONTROVERSY IN THE NEGOTIUM OTIOSUM	R01LM 00063-03	HLS	1,900
RAUCH, HELENE C	IMMUNOLOGIC RESPONSES IN DEMYELINATING DISEASES	R01NB 05513-04	IMB	50,470
ROANTREE, ROBERT J	STUDY OF RELATIONSHIP OF SERUM FACTORS TO IMMUNITY	R01AI 02755-09	ALY	35,797
ROBERTS, SEYMOUR R	STUDIES ON IDIOPATHIC RETINAL DETACHMENT	R01NB 03142-07	VIS	22,350
ROBERTSON, WILLIAM V	FORMATION OF CONNECTIVE TISSUE CONSTITUENTS	R01AM 05223-08	MET	42,044
ROBERTSON, WILLIAM VAN B	FORMATION OF CONNECTIVE TISSUE CONSTITUENTS	R01AM 05223-07S1	MET	235
ROBINSON, WILLIAM S	BIOCHEMICAL EVENTS AFTER TUMOR VIRUS INFECTION	R01CA 10467-01	VR	174,864
ROSE, HEINRICH W	STUDIES OF OPHTHALMIC LASER COAGULATION	R01NB 07073-01A1	VIS	104,693
ROSENBERG, LEON T	IMMUNOLOGIC AND GENETIC STUDIES OF SERUM COMPLEMENT	R01AI 05316-06	ALY	33,283
ROWLEY, PETER T	THE CONTROL OF PROTEIN SYNTHESIS IN THE RETICULOCYTE	R01AM 07469-05	HEM	28,772
SAPIRSTEIN, LEO A	CARDIAC OUTPUT AND ORGAN BLOOD FLOW IN SHOCK	R01HE 09210-03S1	CVA	11,270
SAPIRSTEIN, LEO A	QUANTITATIVE STUDY OF CEREBRAL BLOOD FLOW IN STROKES	R01HE 09327-03	CVA	65,844
SAUNDERS, ALEX M	HISTOCHEMISTRY OF ACID MUCOPOLYSACCHARIDES	R01AM 06992-06	PTHA	22,771
SCHIMKE, ROBERT T	ENZYME SYNTHESIS AND DEGRADATION IN METABOLIC CONTROL	R01GM 14931-02	BIO	66,921
SCHNEIDERMAN, LAWRENCE J	HEREDITARY DISEASES IN AMBULATORY MEDICAL POPULATION	R01AM 09861-03	GEN	17,124
SCHRIER, STANLEY L	METABOLISM OF ERYTHROCYTE STROMA	R01HE 05305-08S1	PC	545
SCHRIER, STANLEY L	METABOLISM OF ERYTHROCYTE STROMA	R01HE 05305-09	PC	43,017
SCHUBERT, EARL D	SHORT-TERM AUDITORY STORAGE	R01NB 07554-01	CMS	26,685
SCHWARTZ, HERBERT C	FORMATION OF HEMOGLOBIN AND OTHER HEMEPROTEINS	R01AM 12467-06	HEM	39,970
SCHWERDT, CARLTON E	PROPERTIES OF A HUMAN NEUROTROPIC PAPOVA VIRUS	R01NB 07163-02	VR	34,518
SHOOTER, ERIC M	MOLECULAR NEUROBIOLOGY-PROTEINS IN THE NERVOUS SYSTEM	R01NB 04270-06	NEUB	90,822
SHUMWAY, NORMAN E	TRANSPLANTATION OF THE HEART	R01HE 08696-05	SGYB	60,000
SIEGEL, EDWARD	IN VITRO ACTIONS AND MECHANISMS OF THYROIDAL HORMONES	R01AM 11881-01	END	59,142
SIMMONS, F BLAIR	CORRELATIONS OF ELECTROPHYSIOLOGICAL MEASURES OF HEARING	R01NB 02167-09	CMS	52,022
SIMMONS, F BLAIR	SCREENING TEST FOR CHILDHOOD DEAFNESS	R01NB 07974-01	CMS	43,561
SISSMAN, NORMAN J	CONGENITAL CARDIAC DEFECTS—STUDIES OF MORPHOGENESIS	R01HE 11166-02	HED	24,897
SMITH, KENDRIC C	PHOTO- AND RADIOCHEMICAL REACTIONS OF NUCLEIC ACIDS	R01CA 02896-12	PC	43,753
SMITH, MARION E	BIOSYNTHESIS OF LIPIDS IN EXPERIMENTAL DEMYELINATION	R01NB 02785-08	MET	19,733
SOAVE, ORLAND A	ANIMAL CARE FACILITY LABORATORY RESOURCES	P06FR 00282-02S1	AR	1,768
SOAVE, ORLAND A	ANIMAL CARE FACILITY LABORATORY RESOURCE	P06FR 00282-03	AR	30,876
SOYKA, LESTER F	ONTOGENETIC STUDIES OF DRUG METABOLISM	R01HD 03063-02	PHRB	52,721
STAMEY, THOMAS A	TEST FOR UNILATERAL RENAL ISCHEMIA IN HYPERTENSION	R01HE 06631-06S1	CVA	27,714
STAMEY, THOMAS A	COOPERATIVE STUDY OF RENOVASCULAR HYPERTENSION	R01HE 06649-07	SRC	11,163
STARK, GEORGE R	CHEMICAL APPROACHES TO THE STUDY OF PROTEIN STRUCTURE	R01GM 11788-05	BIO	33,461
STARR, ARNOLD	REGULATORY MECHANISMS IN AUDITORY PERCEPTION	R01NB 05700-04	CMS	54,892
STOCKER, BRUCE	GENETICS AND PHYSIOLOGY OF SALMONELLA TYPHIMURIUM	R01AI 07168-03	GEN	49,966
TAUBE, HENRY	ORGANIC GROUPS IN REDOX REACTIONS OF METAL IONS	R01GM 13638-03	MCHB	30,049
TAYLOR, KEITH B	IMMUNOLOGICAL STUDIES OF GASTROINTESTINAL DISEASES	R01AM 06971-06	IMB	29,048
TAYLOR, KEITH B	ISOLATION OF CASTLES INTRINSIC FACTOR	R01AM 08282-05	GEN	43,120
TERRES, GERONIMO, JR	ACQUIRED IMMUNE TOLERANCE IN MICE	R01AI 03733-08	ALY	27,412
THOMPSON, DAVID A	COMPUTER GRAPHIC LANGUAGE FOR INFORMATION RETRIEVAL	R01LM 00525-01	BCM	101,468

TABLE 2—RESEARCH GRANTS, BY AREA, INSTITUTION, AND PRINCIPAL INVESTIGATOR

INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRG	DOLLARS
CALIFORNIA—(CON.)				
TSUBOI, KENNETH K	METABOLISM OF THE HUMAN ERYTHROCYTE	RO1AM 03978-09	HEM	37,599
TSUBOI, KENNETH K	METABOLISM OF CARDIAC NUCLEOTIDES	RO1HE 05212-09	PC	18,890
VAN TAMELEN, EUGENE E	SYNTHESIS OF ALKALOIDS AND TERPENOIDES	RO1GM 10421-06	MCHA	58,010
VAN TAMELEN, EUGENE E	CHEMICAL FIXATION OF MOLECULAR NITROGEN	RO1GM 13797-03	MCHB	29,646
VON DER GROEBEN, JOBST	COMPUTER ANALYSIS OF ECG WAVEFORMS IN SURGERY	RO1HE 10202-02S1	COM	34,103
VON DER GROEBEN, JOBST	COMPUTER ANALYSIS OF ECG WAVEFORMS IN SURGERY	RO1HE 10202-03	COM	85,015
VOSTI, KENNETH L	BACTERIOLOGY AND SEROLOGY OF PYELONEPHRITIS	RO1AI 03638-08	BM	34,005
VOSTI, KENNETH L	EXPERIMENTAL POSTSTREPTOCOCCAL DISEASE	RO1AI 06964-03	ALY	26,129
WESSELLS, NORMAN K	TISSUE INTERACTIONS AND CYTODIFFERENTIATION	RO1GM 10060-06	CBY	52,986
WILSON, DONALD M	PHYSIOLOGICAL MECHANISMS OF INHERITED BEHAVIOR	RO1NB 07631-02	PHY	96,416
WOODWARD, DOW O	GENE-ENZYME RELATIONSHIPS IN NEUROSPORA	RO1GM 10067-06	GEN	61,080
YANOFSKY, CHARLES	GENETIC AND BIOCHEMICAL STUDY OF TRYPTOPHAN SYNTHETASE	RO1GM 09738-07	GEN	36,217
YATES, F EUGENE	CONTROL OF PLASMA CORTICOSTEROID CONCENTRATIONS	RO1AM 04612-08	END	84,465
ZWENG, H CHRISTIAN	THE EFFECTS OF LASER RADIATION ON OCULAR TISSUE	RO1NB 06341-02	VIS	75,269
INSTITUTION TOTAL	185	11,098,990		
STOCKTON				
PACIFIC UNIVERSITY OF THE				
CARSON, J DAVID	GENETICS AND DIET IN SERUM CHOLESTEROL BIOSYNTHESIS	RO1HE 09492-03S1	NTN	890
SMITH, EDMUND H	THE PROCESS OF DEMINERALIZATION-BORING IN BIVALVES	RO1DE 02503-02S1	SSS	1,498
SMITH, EDMUND H	THE PROCESS OF DEMINERALIZATION-BORING IN BIVALVES	RO1DE 02503-03	SSS	6,393
TUCKER, JOHN S	REPRODUCTIVE CYCLES IN MARINE BENTHIC INVERTEBRATES	RO1ES 00039-03S1	TMP	890
INSTITUTION TOTAL	4	9,671		
TORRANCE				
LOS ANGELES COUNTY DEPARTMENT OF HOSPITALS--LOS ANGELES COUNTY--HARBOR GENERAL HOSPITAL				
BAILEY, BYRON J	DEVELOPMENT OF LARYNGEAL PROSTHESIS	RO1NB 05902-02	CMS	28,886
BARRETT, PETER V	METABOLISM OF CONJUGATED AND UNCONJUGATED BILIRUBIN	RO1AM 12306-01	GMA	19,658
COCKETT, ABRAHAM T	RENIN LEVELS IN RENAL LYMPH & VEIN DURING ISCHEMIA	RO1HE 09834-02S1	CVA	6,159
DAVIDSON, WARREN D	URINARY ENZYMES IN RENAL AND CIRCULATORY DISEASES	RO1HE 09472-04	PTHA	14,561
FISHER, DELBERT A	PITUITARY THYROID FUNCTION	RO1AM 12475-01	END	50,147
FRENCH, SAMUEL W	ETHANOL-INDUCED MEMBRANE INJURY IN VARIOUS ORGANS	RO1AM 11774-01	MET	52,866
FRENCH, SAMUEL W	LIVER DEHYDROGENASE IN ALCOHOLIC CIRRHOSIS	RO1AM 12079-01	PTHB	11,440
FRENCH, SAMUEL W	LIVER DEHYDROGENASE AND ALCOHOLIC CIRRHOSIS	RO1AM 12079-02	PTHB	25,111
GLASSOCK, RICHARD J	PATHOGENETIC MECHANISMS IN HUMAN GLOMERULONEPHRITIS	RO1AM 11756-01	IMB	30,331
IMAGAWA, DAVID T	MORPHOLOGICAL CONVERSION WITH LEUKEMIA VIRUSES	RO1CA 08930-02	VR	23,016
KUSHINSKY, STANLEY	CONJUGATED ESTROGENS IN HUMAN URINE	RO1AM 09908-04	END	25,137
MAZUR, HAROLD	GENERAL RESEARCH SUPPORT GRANT	SO1FR 05551-06	NSS	116,347
MORIN, ROBERT J	FACTORS AFFECTING ARTERIAL PHOSPHOLIPID METABOLISM	RO1HE 10172-02	MET	24,801
NELSON, JAMES R	EFFECTS OF UNILATERAL LABYRINTHECTOMY	RO1NB 06772-02	CMS	19,864
ODELL, WILLIAM D	PHYSIOLOGY OF GONADAL CONTROL	RO1HD 02701-02	REB	51,904
PARLOW, ALBERT F	IMMUNOBIOLOGY OF PITUITARY HORMONES FSH AND LH	RO1AM 11214-02	END	40,341
REISNER, RONALD M	PATHOPHYSIOLOGY OF PILOSEBACEOUS FUNCTION - ACNE	RO1AM 11164-02	GMA	24,643
SHAW, SETH T, JR	IMPROVED RENIN ASSAY AND STUDY OF RENIN SECRETION	RO1HE 11637-01	ALY	31,415
TANAKA, KOUICHI R	METABOLIC AND BIOCHEMICAL STUDIES OF BLOOD CELLS	RO1HE 08757-06	HEM	27,952
THOMPSON, JAMES C	STUDIES ON GASTRIC SECRETION AND TRANSPLANTATION	RO1AM 07961-06	SGYB	28,771
THOMPSON, JAMES C	ISOLATION OF ANTRAL INHIBITORY HORMONE	RO1AM 07962-06	GM	30,049
VAN PELT, LLOYD F	PROGRAMMED ARTIFICIAL INSEMINATIONS IN RHESUS MONKEYS	RO1FR 00397-01	PME	16,460
WASSERMAN, KARLMAN	THE THRESHOLD OF ANAEROBIC METABOLISM DURING EXERCISE	RO1HE 11905-01	AFY	33,131
ZAMBONI, LUCIANO	ELECTRON MICROSCOPIC STUDIES ON MAMMALIAN SPERM	RO1HD 03341-01	REB	30,378
INSTITUTION TOTAL	24	763,368		
STATE TOTAL	1,435	80,030,164		
COLORADO				
BOULDER				
COLORADO UNIVERSITY OF				
BARNES, FRANK S	A STUDY OF LASER DAMAGE TO BIOLOGICAL MATERIALS	RO1GM 13352-03	RAD	33,696
BARNES, FRANK S	A MATCHED SPACE FILTER MICROSCOPE	RO1GM 13529-02	SSS	20,742
BATTIG, WILLIAM F	ORGANIZATIONAL PROCESSES IN COMPLEX LEARNING	RO1HD 03058-01	NP	32,367
CHAMBERS, JAMES O	ELECTROCHEMISTRY OF PHOSPHORYLATION PROCESSES	RO1GM 14815-02	BBCB	14,693
CRISTOL, STANLEY J	POLYCYCLIC COMPOUNDS, SYNTHESIS AND REACTIONS	RO1GM 12139-04S1	MCHA	1,422
CROWE, C LAWSON	BIOMEDICAL SCIENCES SUPPORT	SO5FR 07013-03	NSS	80,855
DE FRIES, JOHN C	GENETICS OF QUANTITATIVE BEHAVIOR	RO1GM 15679-01	GEN	30,081
DE PUY, CHARLES H	SYNTHESIS AND REACTIONS OF ORGANO-FLUORINE COMPOUNDS	RO1CA 11001-01	MCHB	33,877
GOLDSTEIN, LESTER	BIOCHEMICAL INTERRELATIONS OF NUCLEUS AND CYTOPLASM	RO1GM 15156-01	MBY	98,190
HASSNER, ALFRED	SYNTHESIS AND REACTIONS OF STEROID-HETEROCYCLES	RO1CA 04474-10	MCHA	29,490
KATES, JOSEPH R	BIOCHEMISTRY OF POXVIRUS GENE REGULATION	RO1AI 08413-01	VR	32,891
KUEMPFL, PETER L	CHROMOSOMAL REPLICATION IN ESCHERICHIA COLI	RO1GM 15905-01	GEN	29,539
MC CLEARN, GERALD E	STUDIES IN MOUSE BEHAVIORAL GENETICS	PO1GM 14547-02	GMP	137,600
MILES, RAYMOND C	BEHAVIOR FOLLOWING REARING IN A RANDOM ENVIRONMENT	RO1HD 02325-02	EPR	21,339
MIZUSHIMA, MASATAKA	ATOMIC AND MOLECULAR STRUCTURE STUDIES	RO1GM 11123-05	BBC	32,675
OFFENHARTZ, PETER O	MOLECULAR ORBITAL CALCULATIONS ON CORRINS & PORPHYRINS	RO1AM 12248-01	BBCA	10,563

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INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRG	DOLLARS
COLORADO—(CON.)				
PENE, JACQUES J	REGULATORY MECHANISMS IN VIRUS DEVELOPMENT	R01AI 08077-01	VR	68,657
RICHTER, HENRY J	AZACENAPHTHENES AND RELATED HETEROCYCLICS	R01CA 02997-11	MCHA	9,910
RUNNER, MEREDITH N	MECHANISMS IN DEVELOPMENTAL BIOLOGY	P01HD 02282-02	HDP	183,028
SEGAL, WILLIAM	PHYSIOLOGICAL STUDY OF IN VIVO GROWN M TUBERCULOSIS	R01AI 02936-09	BM	24,950
THOMAS, DAVID R	INVESTIGATIONS IN THE STIMULUS CONTROL OF BEHAVIOR	R01HD 03486-01	EXP	29,886
WILSON, IRWIN B	THE ENZYMOLOGY OF ANGIOTENSIN PRODUCTION	R01HE 11201-02	PHRB	39,015
WILSON, IRWIN B	ENZYME THEORY & RELATIONSHIP TO FUNCTION	R01NB 07156-03	PC	47,305
YARUS, MICHAEL J	RECOGNITION OF TRNA BY AMINOACYL TRNA SYNTHETASES	R01GM 15925-01	PC	39,895
INSTITUTION TOTAL	24	1,082,666		
WESTERN INTERSTATE COMMISSION FOR HIGHER EDUCATION				
ELLIOTT, JO E	CONFERENCES—COMMUNICATING NURSING RESEARCH RESULTS IMPR.....	R13NU 00289-01	NR	24,854
INSTITUTION TOTAL	1	24,854		
COLORADO SPRINGS				
PENROSE HOSPITAL				
DEL REGATO, JUAN A	CLINICAL TRIAL OF RADIOTHERAPY FOR PROSTATIC CANCER	R01CA 10184-01S1	RAD	13,940
DEL REGATO, JUAN A	CLINICAL TRIAL OF RADIOTHERAPY FOR PROSTATIC CANCER	R01CA 10184-02	RAD	2,342
INSTITUTION TOTAL	2	16,282		
DENVER				
COLORADO UNIVERSITY OF				
ABRAMS, ADOLPH	A BIOCHEMICAL INVESTIGATION OF CELL MEMBRANES	R01GM 05810-09	BIO	23,298
AUSTIN, CHARLES J	EXPANSION OF BIOMEDICAL COMPUTATION FACILITIES	P07FR 00404-01	COM	87,425
AUSTIN, JAMES H	STUDIES IN GENETICALLY-DETERMINED NEUROLOGICAL DISEASES	R01NB 07701-02	NEUA	75,966
BATTAGLIA, FREDERICK C	PLACENTAL TRANSFER VS PLASMA BINDING CONC. GRADIENTS	R01HD 01632-03	HED	11,241
BATTAGLIA, FREDERICK C	STUDIES ON THE OXYGEN AFFINITY OF WHOLE BLOOD	R01HD 02348-03	HED	10,769
BECK, PAUL	METABOLIC AND ENDOCRINE EFFECTS OF PEPTIDE HORMONES	R01HD 02455-02	MET	33,107
BLOCK, MATTHEW H	BLOOD FORMATION IN THE EMBRYO NEWBORN OPOSSUM	R01AM 09394-15	HEM	14,605
BLOUNT, S GILBERT, JR	PULMONARY CIRCULATORY DYNAMICS	R01HE 01208-15S1	CVA	5,650
BLOUNT, S GILBERT, JR	NATURAL HISTORY CONGENITAL HEART DEFECTS-JOINT STUDY	R01HE 09478-03	SRC	14,429
BROWN, DONALD W	KINETIC MODELS OF PHYSIOLOGIC SYSTEMS	R01HE 09112-04	CVB	24,928
BUBLITZ, CLARK	BIOSYNTHESIS OF ACETYL-GLUTAMATE IN ANIMALS	R01AM 10708-02	BIO	7,746
CANN, JOHN R	PHYSICO-CHEMISTRY AND IMMUNOLOGY OF MACROMOLECULES	R01AI 01482-17	BBCB	29,844
CHASE, H PETER	THE DEVELOPMENT OF NORMAL AND ABNORMAL MYELIN LIPIDS	R01NB 07537-01	MET	31,976
CHIDSEY, CHARLES A	PHARMACOLOGY & PATHOPHYSIOLOGY OF SYMPATHETIC NERVES	R01HE 09932-03	PHRA	36,184
CLAMAN, HENRY N	TOLERANCE IN ADULTS AFTER THYMECTOMY	R01AM 07529-05	IMB	13,830
CLAMAN, HENRY N	IMMUNOCOMPETENCE OF THYMUS CELLS	R01AM 10145-02S1	IMB	2,202
CLAMAN, HENRY N	IMMUNOCOMPETENCE OF THYMUS CELLS	R01AM 10145-03	IMB	23,200
CROPP, GERD J	STUDIES ON THE RESPIRATORY DISTRESS SYNDROME	R01HD 03554-01	CVA	21,099
CROWLE, ALFRED J	DELAYED HYPERSENSITIVITY IN MICE	R01AI 02689-09	ALY	20,445
CROWLE, ALFRED J	PRODUCTION AND TESTING OF TUBERCLE BACILLUS IMMUNOGEN	R22AI 07784-02	SSS	23,012
CUMMINGS, DONALD J	BACTERIOPHAGE, MACROMOLECULAR SYNTHESIS AND SYNCHRONY	R01AI 06472-04	MBC	21,166
CUMMINGS, DONALD J	INDUCED STRUCTURAL DEFECTS IN BACTERIOPHAGE	R01AI 08265-01	VR	21,671
DAVES, MARVIN L	RESEARCH APPLICATION OF ROENTGEN DIAGNOSTIC TECHNIQUES	R01HE 09110-04	RAD	19,178
DEITRICH, RICHARD A	CHARACTERIZATION OF ALDEHYDE DEHYDROGENASES	R01NB 04551-05	PC	18,538
EISEMAN, BEN	LIVER PERFUSION AND HOMOGRAFT	R01AM 12126-02	SGYB	60,551
ERIKSON, RAYMOND L	THE BIOSYNTHESIS OF VIRAL RNA S	R01AI 06844-03	VR	21,769
FILLEY, GILES F	CARDIOPULMONARY DISABILITY FOR MUSCULAR EXERCISE	R01HE 03191-11	CVA	40,080
FRANKS, JOHN J	FATTY ACID SYNTHESIS BY THE SMALL INTESTINE	R01AM 09903-03	GM	17,012
FRISSELL, WILHELM R	ENZYMOLOGY AND METABOLISM OF I-C AND S COMPOUNDS	R01AM 09069-17	BIO	22,140
GENTON, EDWARD	EFFECTS PRODUCED BY INTRAVENOUS UROKINASE	R01HE 10200-03	HEM	18,471
GORDON, JULIUS A	STUDIES OF THE MECHANISM OF UREA DENATURATION	R01GM 11345-05	BIO	14,718
GROVER, ROBERT F	MECHANISMS OF HYPOXIC HYPERTENSION IN THE LUNG	R01HE 06895-07	PHY	18,371
GROVER, ROBERT F	HIGH ALTITUDE PULMONARY HYPERTENSION IN MAN	R01HE 08728-05	CVA	7,500
HAGERMAN, DWAIN D	BIOSYNTHESIS AND ACTION OF FEMALE HORMONES	R01AM 11846-02	END	31,208
HATHAWAY, WILLIAM E	A NEW CLOTTING FACTOR AND NEWBORN HYPERCOAGULABILITY	R01HD 01965-03	HEM	17,602
HEMENWAY, WILLIAM G	COLLAGEN IN RHINO-OTO-LARYNGOPLASTY	R01NB 07220-02	CMS	24,632
HENDEE, WILLIAM R	SEQUENTIAL RADIATION EFFECTS IN CELL ULTRASTRUCTURE	R01GM 14136-02	RAD	12,593
HILL, ROLLA B, JR	INJURY TO TISSUES AND CELLS	R01AM 10651-02	PTHA	23,743
HOLMES, JOSEPH H	FLUID INTAKE IN EDEMA	R01AM 08196-05	CVA	21,898
HOLMES, JOSEPH H	DIAGNOSTIC ULTRASOUND IN OBSTETRICS AND GYNECOLOGY	R01HD 01669-03	SSS	44,548
HOLMES, JOSEPH H	ULTRASONIC DIAGNOSIS IN RENAL AND CARDIAC SYSTEMS	R01HE 02115-13	SSS	24,713
HUSEBY, ROBERT A	COOPERATIVE STUDY OF BREAST CANCER HORMONE THERAPY	R10CA 05863-06A1	SRC	3,650
JENKINS, DALTON	GENERAL CLINICAL RESEARCH CENTER	M01FR 00051-07	CLR	506,952
KEMPE, C HENRY	GENERAL CLINICAL RESEARCH CENTER - CHILDREN	M01FR 00069-06	CLR	209,457
KEMPE, C HENRY	IMMUNOLOGICAL PROBLEMS OF SMALLPOX	R01AI 01632-13	VR	43,452
KEMPE, C HENRY	EVALUATION OF MEASLES AND RUBELLA VIRUS VACCINES	R01AI 04186-10	VR	15,172
KEMPE, C HENRY	EVALUATION OF ATTENUATED SMALLPOX VACCINE	R22AI 08399-01	SSS	22,693
KERN, FRED JR	ROLE OF BILE SALTS IN LIPID ABSORPTION	R01AM 09925-03	MET	20,328
KERN, FRED, JR	PREVENTION OF HEPATITIS AFTER CARDIOVASCULAR SURGERY	R01HE 10227-03	SRC	17,367
KIND, PHYLLIS D	RELATION OF THYMUS TO ADJUVANT EFFECT OF ENDOTOXIN	R01AM 08885-04	ALY	33,247
KIRSCH, WOLFF M	QUANTITATIVE HISTOCHEMISTRY OF BRAIN TUMORS	R01CA 08594-02S1	PTHA	20,152

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INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRG	DOLLARS
COLORADO—(CON.)				
KIRSCH, WOLFF M	QUANTITATIVE HISTOCHEMISTRY OF BRAIN TUMORS	RO1CA 08594-03	PTHA	29,536
KLITE, PAUL D	DIMORPHISM AND ANTIGENIC VARIATION IN CANDIDA	RO1AI 07836-02	ALY	17,918
KOHLER, PETER F	MATURATION OF G SUBGROUPS AND COMPLEMENT IN THE HUMAN	RO1HD 03381-01	ALY	29,121
KOZLOFF, LLOYD M	CHEMISTRY OF PHAGE INVASION, STRUCTURE AND ASSEMBLY	RO1AI 06336-04	VR	36,218
LA VIA, MARIANO F	THE DEVELOPMENT OF IMMUNOLOGICAL RESPONSIVENESS	RO1AI 07730-02	ALY	17,068
LUBCHENCO, LULA O	INTERMEDIARY METABOLISM IN THE PREMATURE INFANT	RO1HD 00373-12	HED	13,641
MAC DONALD, RICHARD A	CIRRHOSIS AND CANCER	RO1CA 08804-03S1	PTHB	8,215
MAC DONALD, RICHARD A	VASCULAR FACTORS IN LIVER DISEASE	RO1HE 10578-02S1	PTHA	10,121
MACINTYRE, ELIZABETH H	NORMAL AND NEOPLASTIC GLIA IN TISSUE CULTURE	RO1NB 07983-01	PTHA	36,657
MACKENZIE, COSMO G	CONTROL OF LIPID METABOLISM IN MAMMALIAN CELLS	RO1AM 07162-07	MBY	43,926
MAISEL, JOHN C	NUCLEOLAR-REACTIVE GLYCOPROTEINS IN CELL PHYSIOLOGY	RO1GM 13375-02	MBY	15,186
MAKOWSKI, EDGAR L	GROWTH OF UTERINE AND PLACENTAL VASCULATURE	RO1HE 11161-01S1	HED	5,880
MC CANDLESS, GEARY A	A NEUROPHYSIOLOGICAL APPROACH TO CLINICAL AUDIOLOGY	RO1NB 06970-02	CMS	11,115
MESCHIA, GIACOMO	PHYSIOLOGICAL STUDY OF THE PLACENTA	RO1HD 01866-03	HED	13,174
MITCHELL, ROGER S	CORRELATION OF PRE- & POSTMORTEM FUNCTION & PATHOLOGY	RO1AI 07609-03	SSS	54,985
MORSE, MELVIN L	ANALYSIS OF GENE STRUCTURE BY TRANSDUCTION	RO1AI 01345-12	GEN	17,714
MORSE, MELVIN L	THREONINE DEAMINASE SUPPRESSION BY GAL OPERON MUTATION	RO1AI 07277-03	GEN	15,930
MOSKOWITZ, MERLE S	MECHANISMS OF LIPID ACCUMULATION	RO1HE 08435-05	MBY	23,995
NELLHAUS, GERHARD	PERPETUATION OF A GENETICALLY EPILEPTIC RABBIT COLONY	PO6FR 00307-03	GEN	12,251
NELSON, THOMAS E, JR	PHARMACOLOGY OF PULSED ISOLATED BLOOD VESSELS	RO1HE 10124-03	PHRA	10,455
OGDEN, DAVID A	HUMAN RENAL HOMOGRAFT FUNCTION	RO1AM 10578-02	SGYA	42,824
PATON, BRUCE C	GRAFT REPLACEMENT OF CARDIAC VALVES	RO1HE 10426-03	SGYA	24,210
PATON, BRUCE C	SURFACE ACTIVE AGENTS IN CARDIOVASCULAR SURGERY	RO1HE 11421-01	SGYB	34,359
PETERKA, EDWARD S	PORPHYRIN & AMINO ACID STUDIES ON SUNLIGHT SENSITIVITY	RO1AM 10859-02	HEM	11,053
PETTUJOHN, DAVID E	INITIAL EVENTS IN THE TRANSFER OF GENETIC INFORMATION	RO1GM 14989-02	BIO	17,666
PRIEST, ROBERT E	ELASTIN FORMATION IN NORMAL AND PATHOLOGIC STATES	RO1HE 08072-06	PTHA	24,346
PUCK, THEODORE T	THE CELL BIOLOGY OF DEVELOPMENTAL ANOMALIES	PO1HD 02080-03	HOP	140,605
REVE, ERNEST B	SOME MECHANISMS REGULATING PLASMA PROTEIN	RO1HE 02262-13	HEM	45,277
REISS, OSCAR K	LIPID AND CARBOHYDRATE METABOLISM IN MAMMALS	RO1AM 06968-06	PC	24,631
RENDI, RENZO	NA ⁺ K ⁺ REQUIRING ADENOSINETRIPHOSPHATE ACTIVITY	RO1AM 07311-05	BIO	14,867
RENDI, RENZO	WATER EXTRUSION IN SUBCELLULAR FRACTIONS	RO1AM 09963-03	PC	17,857
ROBERTS, WALDEN K	RNA SYNTHESIS IN ANIMAL CELLS INFECTED WITH ME VIRUS	RO1CA 10641-02	VR	30,087
ROBINSON, ARTHUR	HUMAN CHROMOSOMAL DEFECTS EPIDEMIOLOGY AND ETIOLOGY	RO1HD 00622-04S1	GEN	8,662
ROSENKRANTZ, JEN G	EVALUATION OF SURGERY FOR BILIARY ATRESIA	RO1AM 11099-02	SGYB	10,109
ROSENKRANTZ, JENS G	MODEL FOR PULMONARY HYPERTENSION	RO1HE 11920-01	SGYB	24,253
ROY, CLAUDE C	NATURE OF AN ABNORMAL INSULIN IN CHILDHOOD DIABETES	RO1HD 02578-03	END	21,111
RUDNICK, MARK	PERCEPTUAL DEVELOPMENT AS RELATED TO READING PROGRESS	RO1HD 02090-02S1	DBR	3,516
RUDNICK, MARK	PERCEPTUAL DEVELOPMENT AS RELATED TO READING PROGRESS	RO1HD 02090-03	PCR	28,605
SADLER, JOHN R	THE REGULATION OF SPECIFIC ENZYME SYNTHESIS	RO1GM 13383-03	MBY	17,686
SANDO, ISAMU	THE SPATIAL DISTRIBUTION OF VESTIBULAR NERVE FIBERS	RO1NB 07235-02	CMS	8,300
SAUNDERS, GEORGE C	MATURATION AND COMPONENT ACTIVITY OF IMMUNE SYSTEMS	RO1AI 08269-01	IMB	19,026
SMITH, STUART W	STUDIES ON NEUROSECRETION AND PARS NERVOSA HORMONE	RO1NB 00862-16	NEUA	36,209
SOLOMONS, CLIVE C	HYDROXYAPATITE FORMATION AND STRESS EFFECTS IN BONE	RO1AM 08757-04	GMB	41,445
STARZL, THOMAS E	ECK & REVERSE ECK FISTULA IN CARBOHYDRATE METABOLISM	RO1AM 06344-07	SGYA	45,471
STARZL, THOMAS E	EFFECT OF THYMECTOMY AND SPLENECTOMY ON HOMOGRAFTS	RO1AM 07772-05	ALY	50,856
STARZL, THOMAS E	WHOLE ORGAN PRESERVATION	RO1AM 12148-01	SGYA	59,068
STERRITT, GRAHAM M	A DEVELOPMENTAL STUDY OF CHRONIC TUBE-FED FOWL	RO1HD 00334-08	DBR	15,200
STONE, GORDON E	CELL GROWTH AND DIVISION	RO1GM 13752-03	MBY	22,077
SUSSMAN, KARL E	DYNAMICS OF INSULIN SECRETION AND REGULATION	RO1AM 08925-04	MET	31,875
SWETT, JOHN E	CENTRAL PROJECTIONS OF MUSCLE AFFERENTS	RO1NB 07949-01	NEUA	24,400
TALMAGE, DAVID W	SUPPORT OF A CLINICAL RESEARCH CENTER	PO2AI 04152-08	SSS	117,432
TALMAGE, DAVID W	MECHANISM OF ANTIBODY FORMATION	RO1AI 03047-10	ALY	45,725
TALMAGE, DAVID W	GENERAL RESEARCH SUPPORT GRANT	SO1FR 05357-07	NSS	401,946
TALMAGE, DAVID W	UNIVERSITY OF COLORADO PROGRAM FOR ADVANCING THE HEALTH	SO4FR 06084-02	NSS	478,000
TAYLOR, AUSTIN L	BACTERIOPHAGE-INDUCED MUTATION IN E COLI	RO1GM 13712-03	GEN	21,360
TAYLOR, E STEWART	STUDIES ON PREMATURITY	PO1HD 00781-05	HOP	230,739
VON KAULLA, KURT N	SYNTHESIS OF ORGANIC THROMBOLYTIC COMPOUNDS	RO1HE 09985-03	MCHA	21,645
WEINER, NORMAN	THE STORAGE AND RELEASE OF TISSUE CATECHOLAMINES	RO1NB 07642-02	PHRA	71,658
WEINER, NORMAN	STUDIES ON THE REGULATION OF NOREPINEPHRINE SYNTHESIS	RO1NB 07927-01	PHRA	27,820
WELCH, KEASLEY	TRANSPORT OF MATERIALS BY THE CHOROID PLEXUS	RO1NB 05205-03S1	PHY	721
WELCH, KEASLEY	TRANSPORT OF MATERIALS BY THE CHOROID PLEXUS	RO1NB 05205-04	PHY	16,662
WHITLOCK, DAVID G	ANATOMY OF AFFERENT NEURONS	RO1NB 08009-01	NEUB	19,559
WILLSON, JOHN T	LOCALIZATION OF SPERM ANTIGENS AND ANTIBODIES	RO1HD 00031-05	IMB	14,085
INSTITUTION TOTAL	114	4,691,637		
DENVER UNIVERSITY OF				
MOE, MAYNARD L	OCULAR CONTROL SYSTEMS FOR UPPER-EXTREMITY ORTHOTICS	RO1AM 10763-02	SGYB	49,327
PREDECKI, PAUL K	A STUDY OF CERAMIC SKELETAL IMPLANT MATERIALS	RO1AM 12319-01	SGYB	16,075
INSTITUTION TOTAL	2	65,402		
GENERAL ROSE MEMORIAL HOSPITAL				
ALTSHULER, JOHN H	PATHOPHYSIOLOGY OF PLATELET ADHESIVENESS	RO1HE 11134-02	HEM	6,276
INSTITUTION TOTAL	1	6,276		

TABLE 2—RESEARCH GRANTS, BY AREA, INSTITUTION, AND PRINCIPAL INVESTIGATOR

INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRG	DOLLARS
COLORADO—(CON.)				
JEWISH NATIONAL HOME FOR ASTHMATIC CHILDREN AND CHILDREN'S RESEARCH INSTITUTE AND HOSPITAL				
BAHOVITZ, JAY B	MOLECULAR ASPECTS OF ANTIBODIES AND ANTIGENS	R01AI 07613-03	ALY	15,025
FALLIERS, CONSTANTINE J	GENERAL RESEARCH SUPPORT GRANT	S01FR 05523-04	NSS	111,673
ISHIZAKA, KIMISHIGE	GAMMA GLOBULIN STRUCTURE AND HYPERSENSITIVITY	R01AI 04985-06	ALY	39,949
NEWCOMB, RICHARD W	FORMATION AND ACTIVITY OF EXTERNAL SECRETION ANTIBODY	R01AI 08500-01	ALY	22,483
PURCELL, KENNETH	CHILDHOOD ASTHMA AND THE PSYCHOLOGICAL ENVIRONMENT	R01HD 01060-03	PCR	41,077
INSTITUTION TOTAL	5	230,207		
NATIONAL JEWISH HOSPITAL AT DENVER				
COHN, MAURICE L	RESOURCE STRAINS 2 AND 13 GUINEA PIGS	P06FR 00137-05	IMB	7,304
COHN, MAURICE L	STUDIES ON DRUG RESISTANT M TUBERCULOSIS	R01AI 07157-03	BM	23,661
GOREN, MAYER B	SURFACE CHEMISTRY OF MYCOBACTERIA	R22AI 08401-01	SSS	25,137
HAROLD, FRANKLIN M	TRANSPORT AND METABOLISM OF INORGANIC ELECTROLYTES	R01AI 03568-07S1	MBC	2,894
HAROLD, FRANKLIN M	TRANSPORT AND METABOLISM OF INORGANIC ELECTROLYTES	R01AI 03568-08	MBC	37,573
LESTER, WILLIAM	THERAPY OF ISONIAZID RESISTANT MYCOBACTERIOSES	R01AI 06578-04	BM	31,417
MC CLATCHY, J KENNETH	MODES OF ACTION OF ANTIMYCOBACTERIAL AGENTS	R01AI 08190-01	PHRB	18,794
MORGAN, ANNE D	BIOCHEMICAL & PHYSIOLOGICAL STUDY IN STATUS ASTHMATICUS	R01AI 08428-01	CVA	13,751
RICKENBERG, HOWARD V	CONTROL OF ENZYME BIOSYNTHESIS	R01AM 11046-03	BID	70,897
RICKENBERG, HOWARD V	GENERAL RESEARCH SUPPORT GRANT	S01FR 05474-06	NSS	57,522
SCHAEFER, WERNER B	BIOLOGY OF MYCOBACTERIAL SPECIES	R01AI 04344-07	BM	23,370
INSTITUTION TOTAL	11	312,320		
FORT COLLINS				
COLORADO STATE UNIVERSITY				
ALEXANDER, ARCHIBALD F	GENETIC ASPECTS OF HIGH ALTITUDE ADAPTATION	R01HE 08759-04	PHY	49,105
BILLENSTIEN, DOROTHY C	LOWER VERTEBRATE NEUROSECRETORY SYSTEMS	R01NB 06927-02	CBY	23,233
BOOTH, N H	GENERAL RESEARCH SUPPORT GRANT	S01FR 05458-06	NSS	199,773
CHOW, FU HO CHEN	BIOCHEMICAL PATHOLOGY OF URINE IN UROLITHIASIS	R01AM 09481-03	GM	22,125
DAVIS, ROBERT W	PARASITES AS CAUSES OF BLINDNESS	R01NB 06199-03	VIS	66,822
DEWEY, WILLIAM C	CELLULAR RESPONSES TO IRRADIATION	R01CA 08618-03	RAD	35,862
DUPONT, JACQUELINE	CHOLESTEROL BIOSYNTHESIS SPECIFIC FATTY ACID EFFECT	R01HE 11444-01	NTN	37,916
GORMAN, HARRY A	ALTITUDE ADAPTATION MECHANISMS	R01HE 09952-03	AFY	40,806
GORTHY, WILLIS C	ULTRASTRUCTURE OF THE LENS	R01NB 07578-01	VIS	71,084
HERIN, REGINALD A	ANESTHETIC MECHANISMS OF ELECTRIC CURRENT	R01NB 06540-02	SCGYB	49,325
HOPWOOD, M L	UPTAKE OF STILBESTROL AND ITS FATE IN SOIL	R01AM 07903-05	END	20,726
HOPWOOD, M L	SEMINAL FACTORS AND TESTIS-ACCESSORY ORGAN FUNCTION	R01HD 03467-08	REB	22,548
KNOX, KIRVIN L	THE METABOLISM OF ENDOGENOUS LACTIC ACID	R01AM 09821-03	MET	22,862
LECHLEITNER, ROBERT R	ECOLOGY OF PRAIRIE DOG, FLEA & PLAGUE	R01AI 06196-05	TMP	3,328
LETT, JOHN T	REPAIR OF RADIATION DAMAGE TO CELLULAR DNA	R01CA 10714-01	RAD	44,253
LUMB, WILLIAM V	THE CARDIOVASCULAR EFFECTS OF ANESTHETICS IN SWINE	R01GM 14456-02	TOX	18,943
MARTIN, JOHN L	SELENIUM METABOLISM	R01ES 00254-07	TOX	16,915
MARTIN, ROBERT P	METABOLISM OF STEROIDS IN THE BOVINE MALE AND FEMALE	R01AM 03124-08	END	32,459
NASH, DONALD J	EFFECTS OF IRRADIATION ON THE IMMATURE MOUSE	R01HD 01898-03	RAD	35,273
NOCKELS, CHERYL F	VITAMIN A DEFICIENCY AND TISSUE GLYCOGEN METABOLISM	R01AM 12349-01	NTN	28,557
PHILLIPS, ROBERT W	A STUDY OF RUMINANT GLUCONEOGENESIS	R01AM 09928-03	MET	20,985
SELIGER, WILLIAM G	THE EFFECT OF VASCULAR DRAINAGE ON BONE DESTRUCTION	R01DE 02308-03S1	DEN	3,058
STERMITZ, FRANK R	ALKALOIDS OF SOME RARE PAPAVERACEOUS PLANTS	R01GM 15424-01	MCHB	22,840
STERMITZ, FRANK R	MEDICINAL PHOTOCHEMISTRY-SYNTHESIS AND REACTIONS	R01GM 15425-01	MCHA	12,752
STORZ, JOHANNES	PATHOGENESIS OF ENZOOTIC ABORTION OF EWES	R01AI 07399-03	VR	31,643
STORZ, JOHANNES	PATHOGENESIS OF CHLAMYDIAL POLYARTHRITIS-ENTERITIS	R01AI 08420-01	VR	49,270
SWAN, HENRY	ABNORMAL PHYSIOLOGY OF THE CARDIOVASCULAR SYSTEM	R01HE 09667-03S1	SGYA	2,210
TU, ANTHONY T	HEMORRHAGIC AND NECROTIC TOXINS IN SNAKE VENOMS	R01GM 15591-01	TOX	10,410
WHITEMAN, CHARLES E	COMPARATIVE PLACENTAL PATHOLOGY AND BACTERIOLOGY	R01HD 00854-09	BM	27,906
WILL, DONALD H	HEMODYNAMIC AND SEX EFFECTS ON METABOLISM OF ARTERIES	R01HE 11821-01	CVB	48,083
YOUNG, STUART	PATHOGENESIS OF HEMOPHILUS MENINGOENCEPHALITIS	R01AI 08390-01	BM	29,799
YOUNG, STUART	NEURAL DEFECTS IN VERATRUM-INDUCED CYCLOPIA	R01HD 03499-01	HED	4,513
INSTITUTION TOTAL	32	1,105,384		
SPIVAK				
AMERICAN MEDICAL CENTER				
HUSEBY, ROBERT A	STUDIES OF SOME ENDOCRINE ASPECTS OF NEOPLASIA	R01CA 05191-09	END	69,516
HUSEBY, ROBERT A	STEROID BIOSYNTHESIS IN NORMAL AND ABNORMAL TISSUES	R01CA 06841-05	END	20,210
INSTITUTION TOTAL	2	89,726		
STATE TOTAL	194	7,624,754		
CONNECTICUT				
BRIDGEPORT				
BRIDGEPORT UNIVERSITY OF				
EHMER, RICHARD H	THRESHOLD SHIFT EFFECTS OF PURE TONES	R01NB 05968-02	CMS	19,455
INSTITUTION TOTAL	1	19,455		

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INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRG	DOLLARS
CONNECTICUT—(CON.)				
FARMINGTON				
CONNECTICUT UNIVERSITY OF				
COOPERSTEIN, SHERWIN J	THE MECHANISM OF THE DIABETOGENIC ACTION OF ALLOXAN	RO1AM 09059-05	MET	35,547
HINZ, CARL F, JR	IMMUNE CYTOTOXICITY MEDIATED BY CELLS	RO1AM 12590-01	ALY	35,317
LERGE, CHARLES R	ORGANIZATION OF THE TRIGEMINAL NERVE COMPLEX	RO1DE 02095-05	NEUB	2,690
LEPOW, IRWIN H	ENZYMATIC NATURE OF COMPLEMENT	RO1AI 08251-01	ALY	33,295
PATTERSON, JOHN W	EXPERIMENTAL CATARACTS	RO1AM 08344-05	VIS	36,758
ROTHFIELD, LAWRENCE I	BIOSYNTHESIS OF THE BACTERIAL CELL ENVELOPE	RO1AM 12711-01	PC	32,780
STRITTMATTER, PHILIPP	A STUDY OF CYTOCHROMES AND FLAVOPROTEINS	RO1GM 15924-01	BIO	83,330
VOLLE, ROBERT L	STUDIES ON SYMPATHETIC GANGLIA FOLLOWING CONDITIONING	RO1NB 07540-01	PHRA	26,564
VOTAW, ROBERT G	MECHANISM OF ACTION OF PHOSPHOKETOLASE	RO1AM 12674-01	PC	25,540
INSTITUTION TOTAL	9 311,821			
GROTON				
C. W. SHILLING AUDITORY RESEARCH CENTER				
DEY, FREDERICK L	AUDIOLOGICAL TESTS AND EXPERIMENTAL DEAFNESS	RO1NB 04046-06	CMS	19,472
INSTITUTION TOTAL	1 19,472			
HARTFORD				
CONNECTICUT STATE DEPT OF HEALTH				
EISENBERG, HENRY S	STUDIES IN CANCER EPIDEMIOLOGY	RO1CA 09808-08	EDC	41,987
INSTITUTION TOTAL	1 41,987			
HARTFORD HOSPITAL				
LA MOTTA, RUDOLPH V	THE MOLECULAR HETEROGENEITY OF CHOLINESTERASE	RO1NB 06685-02	BIO	28,896
TENNANT, ROBERT	GENERAL RESEARCH SUPPORT GRANT	S01FR 05667-01	NSS	54,043
WARDNER, LE ROY H	ADJUVANT UTERINE CANCER CHEMOTHERAPY	RO1CA 07412-05	SRC	11,104
INSTITUTION TOTAL	3 94,043			
INSTITUTE OF LIVING				
GLUECK, BERNARD C, JR	GENERAL RESEARCH SUPPORT GRANT	S01FR 05578-04	NSS	35,561
GORDON, MALCOLM W	REGULATION OF NEUROHUMORAL TRANSPORT	RO1NB 07266-02	PHY	30,459
INSTITUTION TOTAL	2 66,020			
TRINITY COLLEGE				
CHILD, FRANK M	PHYSICOCHEMICAL STUDIES OF CILIARY APPARATUS	RO1GM 13993-04	CBY	20,622
DE PHILLIPS, HENRY A, JR	OXYGENATION STUDIES OF HEMOCYANINS	RO1HE 11671-02	BBCB	7,384
VAN STONE, JAMES M	NERVES AND ANURAN REGENERATION	RO1NB 01705-10	CBY	13,224
INSTITUTION TOTAL	3 41,230			
MIDDLETOWN				
WESLEYAN UNIVERSITY				
BERRY, SPENCER J	DNA SYNTHESIS AND CONTROL OF DEVELOPMENT IN INSECTS	RO1HD 01641-03	PC	6,480
COCHRANE, VINCENT W	PROTEIN AND RNA SYNTHESIS IN THE FUNGUS SPORE	RO1AI 07558-02	MBC	22,577
FIRSHEIN, WILLIAM	CONTROL OF DNA SYNTHESIS IN DIFFERENT CELL-TYPES	RO1CA 06343-07	BIO	13,440
HASKE, PAUL	MODELS FOR ENZYMICALLY CATALYZED REACTIONS	RO1AM 12743-01	BIO	20,529
KIEFER, BARRY I	GENETIC CONTROL OF SPERM DEVELOPMENT IN DROSOPHILA	RO1GM 14726-02	GEN	22,831
LEERMAKERS, PETER A	ELECTRONIC SPECTRA AND PHOTOCHEM OF ADSORBED MOLECULES	RO1GM 13592-02	BBC	17,661
ROSENBAUM, ROBERT A	BIOMEDICAL SCIENCES SUPPORT GRANT	S05FR 07107-01	NSS	37,150
WHARTON, PETER S	TERPENE CHEMISTRY	RO1GM 16338-01	MCHA	53,970
WILLS, CHRISTOPHER J	BIOCHEMICAL STUDIES OF MUTANTS IN DIPLOID YEAST CELLS	RO1GM 14700-02	GEN	22,656
INSTITUTION TOTAL	9 217,294			
NEW HAVEN				
CONNECTICUT AGRICULTURAL EXPERIMENT STATION				
DIMOND, ALBERT E	CHLOROGENIC ACID IN PLANT DISEASE RESISTANCE	RO1AI 05638-06	MBC	17,889
INSTITUTION TOTAL	1 17,889			
HOSPITAL OF ST. RAPHAEL				
FARMER, DOUGLAS A	PHYSIOLOGIC AND CLINICAL RESULTS AFTER ULCER SURGERY	RO1AM 12279-01	SGYB	12,408
ROTH, OSCAR	ANTI-ARRHYTHMIA DRUGS IN ACUTE MYOCARDIAL INFARCTION	RO1HE 06672-05S1	SRC	2,570
INSTITUTION TOTAL	2 14,978			
JOHN B. PIERCE FOUNDATION OF CONNECTICUT				
ABRAMS, ROBERT M	PHYSIOLOGICAL CONTROL OF ENERGY EXCHANGE	RO1AM 08241-05	AFY	3,686
HARDY, JAMES D	HUMAN RESPONSES TO THE THERMAL ENVIRONMENT	P01ES 00354-01	SSS	149,313
HARDY, JAMES D	TEMPERATURE REGULATION AND BRAIN STEM NEURONAL ACTIVITY	RO1NB 04655-06	NEUA	55,920
HARDY, JAMES D	BEHAVIORAL RESPONSE TO HEATING AND COOLING THE BRAIN	RO1NB 07669-04	PHY	8,469
RAWSON, ROBERT O	VASCULAR RESPONSES TO HEAT	RO1HE 12038-01	AFY	52,559
INSTITUTION TOTAL	5 269,947			
YALE UNIVERSITY				
ACHESON, ROY M	PRE-ECLAMPSIA - A PROSPECTIVE STUDY	RO1HD 01751-03	EDC	38,077
ADELBERG, EDWARD A	CONDITIONAL LETHAL MUTATIONS IN ESCHERICHIA COLI	RO1GM 15336-01	GEN	37,778

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INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRG	DOLLARS
CONNECTICUT—(CON.)				
ALBRIGHT, JAMES A	THE EFFECT OF FLUORIDE ON BONE STRENGTH	RO1AM 11461-02	GMB	10,384
ALEXANDER, NICHOLAS M	IODINE METABOLISM AND THYROXINE BIOSYNTHESIS	RO1AM 03788-09	END	9,853
ANDRIOLE, VINCENT T	EFFECT OF ALTERED LOCAL FACTORS ON PYOGENIC INFECTIONS	RO1AI 06308-05	BM	22,554
ARNSTEIN, MARGARET G	PROPOSAL TO DEVELOP NURSING FACULTY RESEARCH ABILITY	RO2NU 00063-06	NR	68,875
ATKINS, ELISHA	STUDIES IN THE PATHOGENESIS OF FEVER	RO1AI 01564-11	BM	54,960
BARNETT, RUSSELL J	RELATION OF FINE STRUCTURE TO BIOCHEMICAL FUNCTION	RO1AM 03688-08	MBY	51,968
BARRON, DONALD H	PHYSIOLOGY OF THE PREGNANT ANIMAL	RO1HD 00262-20	PHY	4,200
BARRON, DONALD H	IN VITRO AND IN VIVO STUDIES OF PLACENTAL FUNCTION	RO1HD 02300-08	PHY	16,657
BENSCH, KLAUS G	ULTRASTRUCTURAL PATHOLOGY OF CELL MEMBRANES	RO1AM 05514-07	PTHB	25,202
BENSCH, KLAUS G	THE EFFECT OF CHELATION BY EDTA ON MALIGNANT CELLS	RO1CA 08683-03	PHRB	15,274
BERTINO, JOSEPH R	CLINICAL PHARMACOLOGY AND CANCER CHEMOTHERAPY	PO2CA 08341-03	SSS	522,301
BERTINO, JOSEPH R	MECHANISM OF ACTION OF FOLATE ANTAGONISTS	RO1CA 08010-04	PHRA	33,690
BLACK, FRANCIS L	LONG TERM EFFECTS OF SOME CHILDHOOD VIRUS INFECTIONS	RO1AI 00701-13	VR	15,523
BLACK, FRANCIS L	THE FUNCTION OF VIRUS CAPSID	RO1AI 07554-02	VR	8,794
BONDY, PHILIP K	STUDIES OF ADRENAL CORTICAL FUNCTION IN HUMAN DISEASE	RO1AM 00254-16	END	38,836
BOUCK, GEORGE B	STRUCTURAL AND FUNCTIONAL ORGANELLE INTERACTIONS	RO1GM 11100-06	CBY	34,161
BRAUN, J JAY	FUNCTIONAL REORGANIZATION FOLLOWING CORTICAL INSULT	RO1NB 06788-02	EXP	16,417
BRAVERMAN, IRWIN M	INVESTIGATION OF LUPUS ERYTHEMATOSUS IN NZB/NZW MICE	RO1AM 09474-03	PTHA	36,300
BRAWERMAN, GEORGE	THE ROLE OF NUCLEIC ACIDS IN CELL DIFFERENTIATION	RO1GM 11527-05	BIO	34,355
BRILL, ARTHUR S	ENERGY LEVELS OF BIOLOGICALLY ACTIVE MAGNETIC CENTERS	RO1GM 09256-07	BBCB	31,441
BUCHANAN, DONALD L	ORIGIN AND METABOLISM OF URINARY OLIGOPEPTIDES	RO1AM 01277-12	MET	4,677
CALABRESI, PAUL	MARROW AND LYMPHOID CELLS IN CANCER CHEMOTHERAPY	RO1CA 05944-07	PHRB	48,085
CANELLAKIS, EVANGELO S	NUCLEIC ACID SYNTHESIS	RO1CA 04823-09	PC	43,958
CAPLOW, MICHAEL	BIOCHEMICAL MECHANISMS RELEVANT TO DENTAL RESEARCH	RO1DE 02761-01	BIO	27,205
CAPLOW, MICHAEL	MECHANISM OF ENZYME CATALYZED REACTIONS	RO1GM 11820-05	BIO	20,552
CARLTON, BRUCE C	GENE-PROTEIN STUDIES OF BACILLUS SUBTILIS PROTEINASE	RO1GM 10739-05S1	GEN	1,700
CARLTON, BRUCE C	GENE-PROTEIN STUDIES OF BACILLUS SUBTILIS PROTEINASE	RO1GM 10739-06	GEN	29,354
CASSIDY, HAROLD G	REDOX POLYMERS PREPARATION AND PROPERTIES	RO1GM 10864-15	BBC	31,794
CHANDLER, WILLIAM K	ELECTRICAL AND CONTRACTILE PROPERTIES OF MUSCLE	RO1NB 07474-01	PHY	24,974
COHART, EDWARD M	GENERAL RESEARCH SUPPORT GRANT	SO1FR 05443-07	NSS	186,391
COLEMAN, JOSEPH E	METALLOENZYME SYNTHESIS STRUCTURE AND FUNCTION	RO1AM 09070-04	BIO	48,154
COLLINS, WILLIAM F, JR	THE PHYSIOLOGY OF CNS AFFERENT PATHWAYS	RO1NB 07730-02	NEUB	42,372
COOK, CHARLES D, JR	STUDIES OF NORMAL AND ABNORMAL RESPIRATION IN CHILDREN	RO1HD 00989-05	CVB	15,487
COOPER, JACK R	BIOCHEMICAL ASPECTS OF NEURAL TISSUE	RO1NB 05121-03	PET	28,425
CORNELIUS, EUGENE A	STUDIES OF RUNT DISEASE AND POST-THYMECTOMY WASTING	RO1AM 12151-01	JMB	21,106
CRELIN, EDMUND S	STUDIES ON CONNECTIVE TISSUE	RO1AM 09499-13	GM	11,753
CROMPTON, ALFRED W	MASTICATORY FUNCTION IN THE OPOSSUM	RO1DE 02648-02	DEN	25,697
CROTHERS, DONALD M	THE STRUCTURE AND REACTIONS OF NUCLEIC ACIDS	RO1GM 12589-03S1	BIO	214
CROTHERS, DONALD M	THE STRUCTURE AND REACTIONS OF NUCLEIC ACIDS	RO1GM 12589-04	BIO	47,753
CURRAN, PETER F	ION TRANSPORT ACROSS EPITHELIAL MEMBRANES	RO1AM 12028-02	PHY	43,644
DIERS, DONNA K	STUDIES IN NURSE-PATIENT INTERACTION	RO2NU 00179-03	NR	24,872
DILLARD, G MORRIS	STEROID CONJUGATION MECHANISMS	RO1AM 04783-08	END	27,173
DOWNING, S EVANS	DETERMINANTS OF MYOCARDIAL PERFORMANCE IN THE NEWBORN	RO1HE 08659-05	CVA	24,258
DOWNING, S EVANS	AUTONOMIC CONTROL OF CARDIAC FUNCTION	RO1HE 10949-01	CVB	25,540
DOWNES, WILBUR G	ECOLOGY OF ARBOVIRUSES OF BIRDS IN A TROPICAL FOREST	RO1AI 08000-01	TMP	18,670
EAGER, ROBERT P	ANATOMY AND PHYSIOLOGY OF CEREBELLAR PATHWAYS	RO1NB 04760-05	NEUA	21,382
EGGER, M DAVID	RHYTHMICITY IN SPINAL PROGRESSION	RO1NB 06297-03	NEUB	9,151
EISENFELD, ARNOLD J	BINDING OF ESTRADIOL IN TARGET ORGANS	RO1HD 02498-02	END	34,366
EISENSTADT, JEROME M	CONTROL MECHANISMS OF PROTEIN SYNTHESIS	RO1AM 07189-06	BIO	28,868
EMERY, THOMAS F	MICROBIAL METABOLISM OF HYDROXYLAMINO COMPOUNDS	RO1GM 09709-05S1	BIO	5,351
EMERY, THOMAS F	MICROBIAL METABOLISM OF HYDROXYLAMINO COMPOUNDS	RO1GM 09709-06S1	BIO	9,614
EMERY, THOMAS F	MICROBIAL METABOLISM OF HYDROXYLAMINO COMPOUNDS	RO1GM 09709-07	BIO	24,499
EPSTEIN, FRANKLIN H	WATER AND ELECTROLYTES IN HEALTH AND DISEASE	RO1HE 00834-18	PHY	58,591
FINCH, STUART C	IMMUNOLOGIC ALTERATIONS IN LEUKOCYTE FUNCTION	RO1HE 08493-05	HEM	23,344
FINN, ARTHUR L	WATER AND SODIUM TRANSPORT IN BUFO MARINUS	RO1AM 10025-03	PHY	12,897
FISCHELIS, MARY C	CLINIC NURSING AND CHRONIC PSYCHOTIC PATIENTS	R21NU 00220-02	NR	7,055
FIXMAN, MARSHALL	PROBLEMS IN THEORETICAL CHEMISTRY AND POLYMERS	RO1GM 13556-04	BBCA	49,484
FLOCH, MARTIN H	GASTROINTESTINAL BACTERIOLOGY IN HEALTH AND DISEASE	RO1AI 07817-02	BM	30,563
FORBES, THOMAS R	PROGESTIN LEVELS AND THEIR SIGNIFICANCE	RO1HD 00456-18	END	10,605
FORBES, THOMAS R	VITAL STATISTICS AND MEDICAL CARE	RO1LM 00570-01	HLS	2,146
FORRO, FREDERICK, JR	MACROMOLECULAR ORGANIZATION OF BACTERIA	RO1CA 03860-11	GEN	18,195
FREEDMAN, LAWRENCE R	PYELONEPHRITIS AND URINARY TRACT INFECTION	RO1AI 04767-05	BM	39,056
FRUTON, JOSEPH S	CHEMISTRY AND METABOLISM OF PEPTIDES	RO1GM 06452-09	BIO	74,820
GALL, JOSEPH G	FINE STRUCTURE OF ANIMAL CELL NUCLEI	RO1GM 12427-04	MBY	44,626
GALSTON, ARTHUR W	INTERACTIONS OF PLANT HORMONES WITH MACROMOLECULES	RO1GM 10376-06	PC	44,447
GARDNER, WILLIAM U	HORMONE IMBALANCE IN NEOPLASIA	RO1CA 00343-21	END	34,933
GAREN, ALAN	REGULATION OF ALKALINE PHOSPHATASE BIOSYNTHESIS	RO1GM 12487-04	GEN	50,212
GAREN, ALAN	RESEARCH IN MOLECULAR GENETICS	RO1GM 13526-03	GEN	2,500
GARREN, LEONARD D	HORMONAL CONTROL OF CELLULAR GROWTH AND DEVELOPMENT	RO1AM 10947-02	END	44,469
GERSHON, RICHARD K	IMMUNOLOGIC ROLE IN METASTASES OF A HAMSTER LYMPHOMA	RO1CA 08593-03	PTHB	23,016
GIARMAN, NICHOLAS J	BRAIN NEURDHOMORS SUBCELLULAR STATUS AND FUNCTION	RO1NB 00940-13	PHRA	62,121
GLASER, GILBERT H	EPILEPSY RESEARCH PROGRAM	PO1NB 06208-03	NBPA	152,152
GLENN, WILLIAM W	EXPERIMENTAL CARDIAC SURGERY	RO1HE 00851-18	SGYA	13,165

TABLE 2—RESEARCH GRANTS, BY AREA, INSTITUTION, AND PRINCIPAL INVESTIGATOR

INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRG	DOLLARS
CONNECTICUT—(CON.)				
GLENN, WILLIAM W	REMOTE STIMULATION BY RADIO-FREQUENCY TRANSMISSION	RO1HE 04651-09	SGYB	33,052
GLENN, WILLIAM W	COOPERATIVE STUDY OF RESULTS OF CARDIAC SURGERY	RO1HE 10516-03	SRC	69,011
GLUCK, LOUIS	BIOCHEMICAL DEVELOPMENT OF SURFACTANT OF LUNG	RO1HD 01299-03	HED	41,461
GOLDENBERG, IRA S	COOPERATIVE STUDY OF BREAST CANCER THERAPY	R10CA 03360-11A1	SRC	54,168
GOLDSBY, RICHARD A	GENE EXPRESSION IN VERTEBRATE CELLS	RO1GM 15133-02	GEN	30,992
GOLDSMITH, MARY H	BIOELECTRIC POTENTIALS AND PLANT GROWTH	RO1GM 08886-06S1	PHY	1,122
GOLDSMITH, MARY H	BIOELECTRIC POTENTIALS AND PLANT GROWTH	RO1GM 08886-07	PHY	17,126
GOLDSMITH, TIMOTHY H	VISUAL MECHANISMS	RO1NB 03333-08	PHY	24,244
GREEN, ROBERT W	ETIOLOGY AND PATHOGENESIS OF BRONCHITIS AND EMPHYSEMA	RO1AI 08418-01	SSS	90,750
GREENE, HARRY S N	RELATIONSHIPS BETWEEN CANCER AND EMBRYONIC TISSUE	RO1CA 00918-20	PTHB	24,278
GRYBOSKI, JOYCE D	ANTIGENICITY OF MILK PROTEINS	RO1AI 08007-02	IMB	16,096
HALES, MILTON R	HEPATIC CIRCULATION	RO1HE 02639-12	PTHA	13,509
HALL, DIANA L	RESPIRATORY PHYSIOLOGY AFTER THE CHEMICAL REVOLUTION	RO1LM 00527-01	HLS	3,913
HANDSCHUMACHER, ROBERT E	CANCER CHEMOTHERAPY PROGRAM GRANT	PO1CA 10748-01	SSS	351,477
HAYES, MARK A	THE EFFECT OF MAJOR OPERATIVE PROCEDURES ON MAN	RO1AM 02722-09	SGYB	22,823
HAYWOOD, ANNE M	MS2 SPECIFIC PROTEINS	RO1AI 07788-02	VR	44,244
HENDERSON, JACK R	STUDIES ON ARTHROPOD-BORNE VIRUSES	R22AI 04566-06	SSS	100,971
HENDERSON, VIRGINIA A	INDEX TO RESEARCH IN NURSING-VOLUMES II AND I	RO2NU 00023-09	BCM	87,779
HIGGINS, DON C	FACTORS INFLUENCING STABILITY OF STRETCH REFLEX	RO1NB 04763-05	NEUB	12,551
HILDING, DAVID A	ELECTRON MICROSCOPY OF THE INNER EAR	RO1NB 03995-05S1	CMS	3,860
HILDING, DAVID A	ELECTRON MICROSCOPY OF THE INNER EAR	RO1NB 03995-06	CMS	40,360
HOFFMAN, JOSEPH F	MEMBRANE FUNCTION AT THE CELLULAR LEVEL	PO1NB 06891-02	NBPA	214,288
HOFFMAN, JOSEPH F	MEMBRANE TRANSPORT PROCESSES IN RED BLOOD CELLS	RO1HE 09906-03	PHY	45,683
HON, EDWARD H	A COMPREHENSIVE EVALUATION OF HIGH-RISK PREGNANCIES	PO1HD 03338-01	HDP	225,617
HON, EDWARD H	ELECTRONIC EVALUATION OF FETAL ECG AND HEART RATE	RO1HO 01467-04	HED	67,797
HORSTMANN, DOROTHY M	BIOLOGY OF HUMAN VIRAL INFECTIONS	RO1AI 05577-06	VR	92,834
HOWARD-FLANDERS, PAUL	CROSS-LINKING OF NUCLEOPROTEINS BY RADIATION	RO1GM 11014-09	RAD	42,808
HOWARD, RUFUS O	RETINAL VASCULAR METABOLISM	RO1NB 04695-05	VIS	16,934
HSIUNG, GUEH-DJEN	PATHOGENESIS AND EPIDEMIOLOGY OF SIMIAN VIRUSES	RO1AI 08648-01	VR	45,423
HUME, MICHAEL	THE APPLICATION OF FIBRINOLYTIC ENZYMES TO THROMBOSIS	RO1HE 05140-07	HEM	16,229
HUME, MICHAEL	DETECTION OF INTRAVASCULAR THROMBOSIS	RO1HE 09095-04	PTHA	10,959
HUTCHINSON, FRANKLIN	EXPERIMENTAL FIELD ION MICROSCOPY OF BIOLOGICAL SYSTEMS	RO1GM 11572-05	BBCA	41,009
HUTTENLOCHER, PETER R	ONTOGENESIS OF ACTIVITY IN CEREBRAL NEURONS	RO1NB 07105-02	NEUA	18,867
JONAS, ALBERT M	RESOURCE FOR STUDY OF LABORATORY ANIMAL DISEASES	PO6FR 00393-01	AR	106,280
KAHLER, RICHARD L	BETA-ADRENERGIC BLOCKADE AND CIRCULATORY PERFORMANCE	RO1HE 09569-03	AFY	11,725
KANTOR, FRED S	HYPERSENSITIVITY IN GRANULOMATOUS AND NEOPLASTIC DISEASE	RO1AI 06706-03	ALY	13,380
KANTOR, FRED S	GLOMERULAR LESIONS DUE TO STREPTOCOCCAL M PROTEIN	RO1HE 07288-06	ALY	18,162
KASE, NATHAN G	HUMAN OVARIAN STEROID BIOSYNTHESIS	RO1AM 06129-06	END	19,556
KASHGARIAN, MICHAEL	TRANSPORT STUDIES IN EXPERIMENTAL RENAL DISEASE	RO1AM 07369-06	PTHA	21,890
KESSEN, WILLIAM	DISTRESS AND DISCRIMINATION IN INFANTS	RO1HD 00890-10	PCR	39,115
KIRCHNER, JOHN A	STUDY OF CANCER OF THE LARYNX BY SERIAL SECTIONS	RO1CA 08933-02	CMS	15,043
KIRCHNER, JOHN A	NEUROMUSCULAR DYSFUNCTION IN THE LARYNX AND PHARYNX	RO1NB 05465-04	CMS	36,853
KLATSKIN, GERALD	STUDIES IN HEPATIC INJURY	RO1AM 05966-07	MET	73,394
KLIGERMAN, MORTON M	RADIATION THERAPY RESEARCH PROGRAM	PO2CA 06519-06	SSS	764,200
KONIGSBERG, WILLIAM	RELATION OF PROTEIN STRUCTURE TO BIOLOGICAL FUNCTION	RO1GM 12607-03S1	PC	7,914
KONIGSBERG, WILLIAM	RELATION OF PROTEIN STRUCTURE TO BIOLOGICAL FUNCTION	RO1GM 12607-04	PC	56,078
KUNITZ, STEPHEN J	THE FLUORESCENT ANTIBODY STUDY OF ARCHAEOLOGICAL REMAINS	RO1LM 00530-01	HLS	8,417
LANDE, SAUL	MASS SPECTRAL DETERMINATION OF PEPTIDE STRUCTURE	RO1AM 10917-02	MCHA	19,115
LENGYEL, PETER	EXPRESSION OF GENETIC INFORMATION. GENETIC CODE.	RO1GM 13707-03	PC	44,447
LERNER, AARON B	BIOCHEMISTRY OF BENIGN AND MALIGNANT MELANOCYTES	RO1CA 04679-09	PHRB	70,366
LEVINE, ROBERT J	METABOLISM OF HISTAMINE PHARMACOLOGIC CORRELATIONS	RO1GM 13016-04	PHRA	64,076
LIPSKY, SEYMOUR R	PHYSICAL SCIENCES INSTRUMENTATION RESOURCE FACILITY	PO7FR 00356-02	MCHA	68,072
LIPSKY, SEYMOUR R	STUDY OF FATTY ACID METABOLISM BY GAS CHROMATOGRAPHY	RO1HE 03558-11	MET	67,910
LUBS, HERBERT A	ABNORMAL MITOSIS IN MAN	RO1GM 11078-04S1	GEN	212
LUBS, HERBERT A, JR	ABNORMAL MITOSIS IN MAN	RO1GM 11078-05	GEN	27,300
LUDLUM, DAVID B	ALKYLATION OF SYNTHETIC POLYNUCLEOTIDES	RO1GM 12416-04	BIO	15,417
LYTTON, BERNARD	A STUDY OF COMPENSATORY RENAL GROWTH	RO1AM 11670-01	SGYA	9,982
MAGEE, PAUL T	REGULATION OF ISO-VAL BIOSYNTHESIS IN S CERVISIAE	RO1GM 15101-02	MBC	25,101
MAHNKE, JAMES H	THE PHYSIOLOGY OF CEREBRAL SLOW POTENTIAL CHANGES	RO1NB 07731-02	NEUA	15,944
MALAWISTA, STEPHEN E	BIOPHYSICAL MECHANISMS IN LEUKOCYTES AND MELANOCYTES	RO1AM 10493-03	IMB	20,943
MANUELIDIS, ELIAS E	ULTRASTRUCTURAL STUDIES OF NEUROLOGICAL DISORDERS	RO1NB 07849-01	PTHA	23,310
MARTIN, A ROBERT	MECHANISMS OF SYNAPTIC TRANSMISSION	RO1NB 07139-02	PHY	31,440
MARVIN, DONALD A	STRUCTURE AND FUNCTION IN THE FD BACTERIOPHAGE SYSTEM	RO1AI 06524-03S1	VR	12,000
MARVIN, DONALD A	STRUCTURE AND FUNCTION IN THE FD BACTERIOPHAGE SYSTEM	RO1AI 06524-04	VR	39,275
MATHEWS, CHRISTOPHER K	ENZYMOLOGY OF NORMAL AND VIRUS-INFECTED BACTERIA	RO1AI 05991-04S1	BIO	940
MAUTNER, HENRY G	STUDIES OF POTENTIAL ANTI-CANCER AGENTS	RO1CA 03937-10A1	MCHA	11,406
MAUTNER, HENRY G	A STUDY OF SOME BIOCHEMICAL ASPECTS OF NERVE FUNCTION	RO1NB 07853-01	PHRA	24,300
MC BRIDE, J MICHAEL	SOLVENT STERIC EFFECTS IN ORGANIC REACTIONS	RO1GM 15166-02	MCHA	13,050
MERKERT, CLEMENT L	ROLE OF CARBOXYL GROUPS IN ENZYME ACTION	RO1AM 11668-01	BIO	16,882
MILLER, WILLIAM H	STRUCTURE AND FUNCTION OF EYES	RO1NB 05730-04	VIS	20,403
MILSTONE, J HASKELL	THE THROMBOKINASE OF THE BLOOD AND FIBRINOLYSIS	RO1HE 03906-10	HEM	39,678
MOROWITZ, HAROLD J	ION TRANSPORT IN MYCOPLASMA	RO1GM 15600-01	PHY	22,196
MULROW, PATRICK J	REGULATION OF ALDOSTERONE SECRETION	RO1AM 05954-07	END	67,940

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INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRG	DOLLARS
CONNECTICUT—(CON.)				
NEMERSON, YALE R	ACTIVATION OF BLOOD COAGULATION BY TISSUE FACTORS	RO1HE 09057-04	HEM	23,490
NICHOLLS, JOHN G	PHYSIOLOGICAL STUDIES ON NEUROGLIAL CELLS	RO1NB 06145-03	NEUB	27,057
NOVICK, ALVIN	ACOUSTIC PERCEPTION AND ECHO-ORIENTATION	RO1NB 07616-07	EXP	36,876
ONSAGER, LARS	THEORY OF POLAR LIQUIDS AND SOLUTIONS	RO1GM 13190-04	BBC	37,632
PAUL, JOHN R	WRITING OF HISTORY OF POLIOMYELITIS	RO1LM 00068-03	HM	15,196
PERILLIE, PASQUALE E	STUDIES OF HOST RESISTANCE IN LEUKEMIA	RO1CA 08287-03	HEM	9,024
POULSON, THOMAS L	ADAPTATION TO STRESS AQUATIC CAVE ENVIRONMENTS	RO1GM 12231-05	TMP	13,680
PRUSOFF, WILLIAM H	IODODEOXYURIDINE, IODO-DNA AND BIOLOGICAL ACTIVITY	RO1CA 05262-08	PC	63,759
QUILLIGAN, EDWARD J	CARDIOVASCULAR STUDIES IN THE FETUS	RO1HE 11149-02	HED	15,462
RADDING, CHARLES M	REGULATION AND DEVELOPMENT OF PHAGE	RO1AI 08160-01	VR	94,405
REDLICH, F C	GENERAL RESEARCH SUPPORT GRANT	SO1FR 05358-07	NSS	378,007
REDLICH, FREDERICK C	GENERAL CLINICAL RESEARCH CENTER-ADULT-CHILD-PERINATAL	MO1FR 00125-05	CLR	841,798
RICHARDS, FRANK F	BINDING SITE OF ANTIBODIES	RO1AI 08614-01	ALY	66,033
RICHARDS, FREDERIC M	X-RAY CRYSTALLOGRAPHIC STUDY OF RIBONUCLEASE - S	RO1GM 10025-06	BBC	53,898
RICHARDS, FREDERIC M	STUDIES OF ENZYMES IN SOLUTION AND IN SOLID STATE	RO1GM 12006-05	BBC	30,000
RITCHIE, JOSEPH M	STUDY OF MAMMALIAN NON-MYELINATED FIBRES	RO1NB 08304-01	PHY	26,520
ROCKOFF, S DAVID	MICRODENSITOMETRIC X-RAY ANALYSIS OF TRABECULAR BONE	RO1AM 09664-03	RAD	8,421
ROSENBAUM, JOEL L	CILIARY AND FLAGELLAR PROTEINS	RO1GM 14642-02	MBY	37,578
ROSENBERG, LEON E	IN VIVO AND IN VITRO STUDIES OF AMINO ACID TRANSPORT	RO1AM 09527-03	MET	27,669
ROSENBERG, LEON E	TISSUE CULTURE STUDIES OF INBORN METABOLIC ERRORS	RO1AM 12579-01	MET	55,709
RUDDLE, FRANK H	GENETIC ANALYSIS OF SOMATIC CELL POPULATIONS	RO1GM 09966-06	GEN	39,204
SARTORELLI, ALAN C	BIOCHEMICAL AND CHEMOTHERAPEUTIC STUDIES OF PYRIMIDINES	RO1CA 02817-12	PHRB	207,940
SAUNDERS, MARTIN	PROTEIN SECONDARY STRUCTURE THROUGH TRITIUM LABELING	RO1GM 11675-03	BBCA	36,043
SCHLUEDERBERG, ANN E	CELLULAR MECHANISMS IN VIRAL IMMUNITY	RO1AI 06864-03	IMB	22,644
SCHMIDT, KURT F	REGIONAL BRAIN METABOLIC CHANGES WITH ANESTHESIA	RO1NB 04981-05	NEUB	17,627
SCHMIR, GASTON L	STUDIES IN THIAZOLINE CHEMISTRY	RO1AM 04288-08	MCHB	27,094
SEARS, MARVIN L	ANATOMIC AND PHYSIOLOGIC STUDIES OF INTRAOCULAR PRESSURE	RO1NB 03781-07	VIS	86,758
SHEPHERD, GORDON M	INTEGRATIVE MECHANISMS OF CORTICAL NEURONS	RO1NB 07609-01	PHY	25,375
SIMMONDS, SOFIA	BACTERIAL METABOLISM OF PEPTIDES AND AMINO ACIDS	RO1AI 04257-07	MBC	33,827
SKINNER, H CATHERINE	MINEROLOGY OF CALCIFYING TISSUES TEETH AND BONES	RO1DE 02716-01	BBCA	38,683
SLAYMAN, CAROLYN W	GENETIC STUDY OF ION TRANSPORT IN NEUROSPORA	RO1GM 15761-01	GEN	36,740
SLAYMAN, CLIFFORD L, JR	H TRANSPORT AND MEMBRANE POTENTIALS IN NEUROSPORA	RO1GM 15858-01	PHY	50,583
SOLITARE, GILBERT B	NEUROPATHOLOGY OF THE AGING MENTAL RETARDATE	RO1NB 06882-02	NEUA	10,544
SOLL, DIETER G	RELATION OF STRUCTURE TO FUNCTION OF TRANSFER RNA	RO1GM 15401-01	BIO	40,449
SPENCER, RICHARD P	INTESTINAL TRANSPORT AND METABOLISM INTEGRATED STUDY	RO1AM 09429-03	MET	33,426
STOWE, BRUCE B	ANALYSIS AND METABOLISM OF INDOLE HORMONES IN PLANTS	RO1GM 06921-09	MBY	29,770
STURTEVANT, JULIAN M	PHYSICO-CHEMICAL STUDIES OF BIOCHEMICAL REACTIONS	RO1GM 04725-12	BBCA	45,600
TABORSKY, GEORGE	METABOLISM OF EGG YOLK PHOSPHOPROTEINS	RO1AM 03188-08S1	BIO	873
TABORSKY, GEORGE	CHEMISTRY AND METABOLISM OF PHOSPHOPROTEINS	RO1AM 03188-09	BIO	35,356
TALNER, NORMAN S	BIOCHEMICAL CHANGES WITH CARDIAC FAILURE IN INFANCY	RO1HE 10137-03	CVA	22,565
TAYLOR, CHARLES H, JR	BIOMEDICAL SCIENCES SUPPORT	SO5FR 07015-03	NSS	92,909
VAN WAGENEN, G	TUMORIGENESIS IN THE MONKEY	RO1CA 00429-21	HEO	27,401
VAN WAGENEN, G	GONADOTROPHINS IN PRIMATES	RO1HD 00480-10	REB	16,090
VAN WAGENEN, G	DEVELOPMENTAL NORMS FOR MACACA MULATTA	RO1HD 02295-17	HEO	8,873
VAN WOERT, MELVIN H	MELANIN METABOLISM PHARMACOLOGIC CORRELATIONS	RO1NB 07542-01	PHRA	41,920
WAKSMAN, BYRON H	STUDIES UTILIZING ANALYTICAL ULTRACENTRIFUGATION	RO1AI 05990-05	BM	2,750
WAKSMAN, BYRON H	THE BEHAVIOR OF CELL SUSPENSIONS IN VITRO AND IN VIVO	RO1AI 06112-05	ALY	55,958
WAKSMAN, BYRON H	SPECIFICITY AND INFORMATION TRANSFER IN SENSITIVITY	RO1AI 06455-04	ALY	36,345
WAKSMAN, BYRON H	ATLAS OF IMMUNOBIOLOGY AND IMMUNOPATHOLOGY	RO1LM 00519-01	BCM	10,279
WALLIS, ROBERT C	ECOLOGY OF MOSQUITOES	RO1GM 12362-04	TMP	24,686
WANG, JUI H	THE MECHANISM OF ENZYME ACTION & ALLIED MODEL REACTIONS	RO1GM 04483-13	BBC	64,585
WASSERMAN, HARRY H	STUDIES ON BACTERIAL METABOLITES	RO1AI 04798-06	MCHB	31,284
WASSERMAN, HARRY H	NEW SYNTHETIC METHODS VIA ALKOXYACETYLENES	RO1GM 07874-08	MCHB	34,705
WASSERMAN, HARRY H	REACTIONS OF OXYGEN WITH HETEROCYCLIC SYSTEMS	RO1GM 13854-02S1	MCHB	1,436
WASSERMAN, HARRY H	REACTIONS OF OXYGEN WITH HETEROCYCLIC SYSTEMS	RO1GM 13854-03	MCHB	34,495
WATERMAN, TALBOT H	INFORMATION CHANNELING IN THE RETINA	RO1NB 07858-01	SSS	36,668
WATERS, LEVIN L	THE PATHOGENESIS OF CHOLECYSTITIS	RO1AM 10972-02	PTHA	11,957
WATERS, LEVIN L	MODIFICATION OF LESIONS OF ATHEROSCLEROSIS	RO1HE 01794-14	PTHA	50,879
WATERS, LEVIN L	EXPERIMENTAL CORONARY ARTERY THROMBOSIS	RO1HE 10862-02	PTHA	8,067
WEISSMAN, SHERMAN M	REGULATION OF NUCLEIC ACID AND PROTEIN SYNTHESIS	RO1CA 10137-02	VR	60,569
WIBERG, KENNETH B	A STUDY OF UNUSUALLY REACTIVE CARBOCYCLIC COMPOUNDS	RO1GM 12800-03	MCHA	31,050
WYATT, GERARD R	BIOCHEMISTRY OF DEVELOPMENT AND REGULATION IN INSECTS	RO1HD 02176-02	MBC	22,689
WYMAN, ROBERT J	CENTRAL NERVOUS GENERATION OF MOTOR OUTPUT PATTERNS	RO1NB 07314-02	PHY	19,178
WYSHAK, GRACE	TWINNING AMONG TWINS AND THEIR SIBS	RO1GM 11803-04S1	EDC	586
ZADUNAISKY, JOSE A	ACTIVE ION TRANSPORT AND CELLULAR STRUCTURE	RO1AM 12032-02	PHY	22,733
ZADUNAISKY, JOSE A	CORNEAL ELECTROPHYSIOLOGY	RO1NB 07611-02	VIS	60,196
ZIEGLER, FREDERICK E	SYNTH OF 2-VINYL INDOLE DER & REL TO ASPIDOSPERMALK	RO1CA 08869-02	MCHA	4,899
ZIGLER, EDWARD F	COGNITION AND MOTIVATION IN RETARDED INDIVIDUALS	PO1HD 03008-01	HDP	250,206
INSTITUTION TOTAL	216	10,535,691		
RIDGEFIELD				
NEW ENGLAND INSTITUTE FOR MEDICAL RESEARCH				
MILLER, RICHARD W	IRON-FLAVOPROTEIN CATALYSIS	RO1GM 12980-03	BIO	20,400

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INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRC	DOLLARS
CONNECTICUT—(CON.)				
WILKINS, DAVID J	PREPARATION, SURFACE PROPERTIES OF INJECTED COLLOIDS	RO1AI 07161-02	ALY	21,123
INSTITUTION TOTAL	2 41,523			
SOUTHURY				
CONNECTICUT STATE DEPT OF HEALTH--SOUTHURY TRAINING SCHOOL				
BREG, W ROY	CYTOGENETIC STUDIES IN MENTAL RETARDATION	RO1HD 00339-07S1	GEN	2,066
BREG, W ROY	CYTOGENETIC STUDIES IN MENTAL RETARDATION	RO1HD 00339-08	GEN	37,366
INSTITUTION TOTAL	2 39,432			
STORRS				
CONNECTICUT UNIVERSITY OF				
AMBELLAN, ELISABETH H	DIFFERENT RESPONSES OF CELLS TO GLUCOCORTICOIDS	RO1CA 10419-01	MBY	34,221
BOBBITT, JAMES M	CHEMISTRY OF THE GLYCOSIDES	RO1CA 05267-08	MCHA	17,455
BOBBITT, JAMES M	OXIDATIVE COUPLING OF PHENOLIC ISOQUINOLINES	RO1CA 10494-01	MCHA	13,346
BOETTIGER, EDWARD G	COMPARATIVE STUDY OF MECHANICAL PROPERTIES OF MUSCLE	RO1NB 05086-04	PHY	1,257
CHOVNIK, ARTHUR	GENETIC STUDIES IN DROSOPHILA MELANOGASTER	RO1GM 09886-07	GEN	48,332
CLARK, HUGH	BIOMEDICAL SCIENCES SUPPORT	S05FR 07014-03	NSS	68,908
CROWNE, DOUGLAS P	THE DEVELOPMENTAL ANTECEDENTS OF SELF-EVALUATIVE STYLE	RO1HD 01652-03	CPR	28,085
DOEG, KENNETH A	MITOCHONDRIA IN ANDROGEN STIMULATED TISSUES	RO1AM 09671-03	MET	22,831
DREYER, ALBERT S	FAMILY INTERACTION AND COGNITIVE STYLE	RO1HD 02944-01	PCR	50,492
EATON, HAMILTON D	HYPO- AND HYPERVITAMINOSIS A	RO1NB 02108-09	NTN	24,712
HERRMANN, HEINZ	MECHANISMS OF DIFFERENTIATION OF EMBRYONIC CELLS	RO1HD 00203-09	HED	45,000
HERRMANN, HEINZ	MAINTENANCE IN VITRO OF NORMAL AND DYSTROPHIC MUSCLE	RO1NB 05673-04	MBY	22,680
JENSEN, ROBERT G	HYDROLYSIS OF GLYCERIDES BY SELECTED LIPASES	RO1AM 02605-10	PC	11,892
KEGELES, GERSON	STUDIES USING SEDIMENTATION AND DIFFUSION	RO1GM 16529-01	BBC	38,198
KELLEHER, WILLIAM J	BIOSYNTHESIS OF ERGOT ALKALOIDS	RO1GM 14530-02	MCHA	14,994
KENYON, ALAN J	IMMUNOLOGICAL ASPECTS OF ALEUTIAN DISEASE	RO1AI 06474-09	PTHA	40,899
KENYON, ALAN J	BIOCHEMICAL STUDIES OF MASTOCYTOMA	RO1CA 06897-06	PTHA	22,049
KENYON, ALAN J	ANALYSIS OF TUMOR POLYSACCHARIDES AND GLYCOPROTEINS	RO1CA 08105-04	PTHA	2,500
KRAUSE, RONALD A	LIGAND REACTIONS USING DIPHENYLIODONIUM SALTS	RO1GM 14080-02	MCHB	21,338
MALONE, MARVIN H	ANTIINFLAMMATORY EVALUATION OF CRYOGENINE	RO1AM 11861-01	GMA	32,724
MUNDKUR, BALAJI	PROTEIN-SPECIFIC REAGENTS FOR ASCITES TUMOR RESEARCH	RO1CA 08732-03	PHRB	22,935
OSBORN, MARY J	STUDIES ON BIOSYNTHESIS OF LIPOPOLYSACCHARIDE	RO1AI 08650-01	PC	75,469
PIERRO, LOUIS J	DEVELOPMENTAL GENETICS OF THE EYE DEFECTS	RO1NB 07198-04	GEN	34,877
ROTH, JAY S	STUDIES ON SENSITIVE ENZYMES IN DNA SYNTHESIS	RO1CA 08384-03	BIO	21,638
SCOTT, JOSEPH L	COMPARATIVE METABOLISM, IN VIVO, OF C14-EPINEPHRINE	RO1HE 03829-09	TOX	6,673
SOMES, RALPH G, JR	EFFECTS OF OXYGEN THERAPY ON MUSCULAR DYSTROPHY	RO1NB 07051-02	PTHA	24,740
SPEYER, JOSEPH F	MOLECULAR MECHANISMS OF INFORMATION TRANSFER	RO1GM 15697-01	PC	61,483
TOURTELLOTTE, MARK E	GROWTH REQUIREMENTS OF MICROAEROPHILIC VIBRIOS	RO1AI 03735-08	BM	14,866
VASINGTON, FRANK D	STUDY OF HISTIDINE B GENE AND ENZYMES IT SPECIFIES	RO1GM 12717-05	MBC	36,814
WARDWELL, WALTER I	SOCIO-PSYCHOLOGICAL FACTORS IN MYOCARDIAL INFARCTION	RO1HE 07522-05S1	MNHA	17,894
WILLETTE, ROBERT E	BIOCHEMICAL STUDY OF PYRROLIZIDINE AND ALLYLIC ESTERS	RO1CA 10316-02	MCHA	30,076
ZEAMAN, DAVID	CLASSICAL CONDITIONING OF EYE MOVEMENTS IN RETARDATES	RO1HD 01649-03	NP	27,533
INSTITUTION TOTAL	32 936,911			
WEST HARTFORD				
HARTFORD UNIVERSITY OF				
BECK, ANF F	A HISTORY OF THE BRITISH MEDICAL ADMINISTRATION OF EAST	RO1LM 00038-05	HLS	3,385
INSTITUTION TOTAL	1 3,385			
STATE TOTAL	290 12,671,078			
DELAWARE				
DOVER				
DOVER MEDICAL RESEARCH CENTER				
POLLAK, OTAKAR J	AVIDITY FOR CHOLESTEROL AS SOLE ATHEROGENIC FACTOR	RO1HE 09824-03	CVB	22,856
INSTITUTION TOTAL	1 22,856			
NEWARK				
DELAWARE UNIVERSITY OF				
CLARK, ARNOLD M	GENETIC ASPECTS OF RADIATION INDUCED AGING	RO1GM 07607-08	GEN	28,320
DYER, ELIZABETH	PREPARATION OF HETEROCYCLIC NITROGEN COMPOUNDS	RO1CA 03477-11	MCHB	19,708
HAMORI, EUGENE	KINETIC STUDY OF THE ASSOCIATION OF PHOSPHOLIPIDS	RO1GM 15112-02	BBCB	13,477
POWELSON, DOROTHY M	FACTORS AFFECTING CYTOPATHOGENICITY OF MYCOPLASMAS	RO1AI 06030-05	BM	13,840
PREISS, JOHN W	LOCALIZED EFFECTS OF IONIZING RADIATION	RO1CA 06837-05S1	BBCA	4,500
PRICE, KENT S	OSMOTIC COMPONENTS IN ELASMOBRANCH BLOOD	RO1HE 11471-01	PHY	7,356
SCHWEIZER, EDWARD E	SYNTHESIS FROM ALKENYL SUBSTITUTED PHOSPHONIUM SALTS	RO1CA 11000-04	MCHB	40,451
WRISTON, JOHN C, JR	THE TUMOR INHIBITORY EFFECT OF L-ASPARAGINASE	RO1CA 06780-06	PHRB	24,211
INSTITUTION TOTAL	8 151,863			
INSTITUTE FOR CANCER RESEARCH - BIOCHEMICAL RESEARCH FOUNDATION				
ROSS, MORRIS H	EFFECT OF CHANGES IN ENZYME LEVELS ON LIFE SPAN	RO1HD 00086-10	PTHA	75,377
ROSS, MORRIS H	AGING OF CELLS AND TISSUES ENZYMIC CORRELATIONS	RO1HD 00490-09	PTHB	27,163

TABLE 2—RESEARCH GRANTS, BY AREA, INSTITUTION, AND PRINCIPAL INVESTIGATOR

INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRG	DOLLARS
DELAWARE—(CON.)				
INSTITUTION TOTAL	2	102,540		
STATE TOTAL	11	277,259		
DIST OF COL				
WASHINGTON				
AMERICAN ASSOCIATION OF ANATOMISTS				
GOSS, CHARLES M	PREPARATION OF INTERNATIONAL ANATOMICAL NOMENCLATURE	R01LM 00565-01	BCM	6,440
INSTITUTION TOTAL	1	6,440		
AMERICAN NATIONAL RED CROSS				
GREENWALT, TIBOR J	STUDIES OF BLOOD GROUP ANTIGENS AND ANTIBODIES	R01HE 11154-02	HEM	42,863
MOORE, RICHARD	DAMAGE TO HUMAN RED BLOOD CELLS BY FREEZING & THAWING	R01HE 10320-02	HEM	18,600
INSTITUTION TOTAL	2	61,463		
AMERICAN PHARMACEUTICAL ASSOCIATION				
NOBLES, WILLIAM L	SYMPOSIUM ON MEDICINAL CHEMISTRY	R13AI 08408-01	MCHB	4,000
INSTITUTION TOTAL	1	4,000		
AMERICAN UNIVERSITY				
ALDRIDGE, MARY H	GAS CHROMATOGRAPHIC P-VALUES FOR DRUG IDENTIFICATION	R01GM 14852-02	MCHB	9,950
BREYERE, EDWARD J	STUDIES ON THE TOLERANCE INDUCED BY PARITY	R01CA 05660-08	IMB	37,496
WOKKE, PAUL A	MECHANICS OF TUMOR CELL TRANSMISSION BY ARTHROPODS	R01CA 08978-02	TMP	50,108
INSTITUTION TOTAL	3	97,554		
ARCTIC INSTITUTE OF NORTH AMERICA				
ALBRECHT, C E	ARCTIC HEALTH SYMPOSIUM	R13AI 08005-02	NSS	8,275
INSTITUTION TOTAL	1	8,275		
CARNEGIE INSTITUTION OF WASHINGTON, D. C.				
HERSHEY, ALFRED D	GROWTH AND INHERITANCE IN BACTERIOPHAGE	R01GM 15876-18	GEN	45,399
INSTITUTION TOTAL	1	45,399		
CATHOLIC UNIVERSITY OF AMERICA				
ATABEK, BULENT H	FLOW FIELD IN AORTA AND ITS MAJOR BRANCHES	R01HE 12083-01	CVA	39,284
BRUCK, STEPHEN D	ORDERED COPOLYMERS FOR IMPLANT APPLICATIONS	R01GM 16192-01	BBCB	33,795
EISCH, JOHN J	AZA AROMATIC SYNTHESSES WITH ORGANOLITHIUM REAGENTS	R01CA 10743-04	MCHB	16,247
EISCH, JOHN J	SELECTIVE REDUCTION AND OLIGOMERIZATION OF ALKYNES	R01GM 13421-03	MCHB	14,814
HEIDGERKEN, LORETTA E	VOCATIONAL MOTIVATION FOR A CAREER TEACHING NURSING	R02NU 00284-01	NR	29,556
TIMMONS, RICHARD B	THE PHOTOCHEMISTRY OF THE PEPTIDE LINKAGE	R01GM 14110-01A1	BBCA	15,640
YOUNISS, JAMES	A DEVELOPMENTAL EVALUATION OF LOGICAL OPERATIONS	R01HD 02026-03	DBR	29,834
INSTITUTION TOTAL	7	179,170		
CHILDREN'S HOSPITAL OF THE DISTRICT OF COLUMBIA-RESEARCH FDN				
BARNET, ANN B	DEVELOPMENT OF EEG & BEHAVIORAL RESPONSES TO STIMULI	R01HD 02296-03	CPR	47,841
CHUNG, ANTHONY C W	ARTERIAL METABOLISM OF GLYCEROL-CONTAINING LIPIDS	R01HE 09067-05	MET	24,781
FENICHEL, GERALD M	HISTOCHEMICAL STUDIES IN HUMAN MUSCLE DEVELOPMENT	R01NB 05313-04	HED	17,727
FENICHEL, GERALD M	HISTOLOGICAL STUDIES IN HUMAN NEUROMELANIN	R01NB 06865-02	NEUA	22,872
HOUCK, JOHN C	CHEMICAL PATHOLOGY OF INFLAMMATION	R01AM 08168-05	PTHA	47,126
HUNG, WELLINGTON	THYROID CELLS IN TISSUE AND ORGAN CULTURE	R01CA 08407-03	END	14,528
LEIKIN, SANFORD L	CHILDRENS CANCER STUDY GROUP A	R10CA 03888-10S1	SRC	2,471
LEIKIN, SANFORD L	CHILDRENS CANCER STUDY GROUP A	R10CA 03888-11	SRC	36,934
PAINE, RICHMOND S	BIOCHEMICAL CORRELATES OF CHROMOSOMAL ANOMALIES	R01HD 02044-02	HED	38,367
PARROTT, ROBERT H	GENERAL CLINICAL RESEARCH CENTER-PEDIATRIC	M01FR 00284-02	CLR	99,784
PARROTT, ROBERT H	NEW VIRUSES IN RELATION TO CLINICAL DISEASE	R01AI 01528-12	VR	128,756
PARROTT, ROBERT H	VIRUS EFFECTS ON THE HEART AND BLOOD IN CHILDREN	R01HE 05550-06	VR	6,000
PARROTT, ROBERT H	GENERAL RESEARCH SUPPORT GRANT	S01FR 05515-06	NSS	102,705
INSTITUTION TOTAL	13	589,892		
GALLAUDET COLLEGE				
PICKETT, JAMES M	PERCEPTION OF COMPLEX AUDITORY STIMULI BY THE DEAF	R01NB 05464-04	CMS	48,758
INSTITUTION TOTAL	1	48,758		
GEORGE WASHINGTON UNIVERSITY				
BAILEY, J MARTYN	PROPERTIES AND FUNCTION OF MAMMALIAN MUTAROTASE	R01AM 10082-03	BIO	22,543
BAILEY, J MARTYN	LIPID METABOLISM IN CULTURED CELLS	R01HE 05062-09	MET	52,802
BLANCHETTE, E JOAN	E/M OBSERVATIONS OF OVARIAN STEROID CELLS	R01HD 03087-01A1	REB	28,111
BRECHER, ARTHUR S	PROTEOLYTIC ACTIVITY IN BRAIN	R01NB 05074-05	PC	19,652
BURNS, ARTHUR E	BIOMEDICAL SCIENCES SUPPORT	S05FR 07019-03	NSS	53,125
CASSIDY, MARIE M	STRUCTURAL AND FUNCTIONAL RELATIONSHIPS IN EPITHELIA	R01GM 14440-02	PHY	17,769
CHU, YANG-MING	STUDY OF IMMUNE RESPONSES TO MYCOBACTERIAL ANTIGENS	R22AI 08397-01	SSS	26,173
FINE, BEN S	CHORIORETINAL SCARRING	R01NB 07774-01	VIS	35,053
GLEW, DONALD H, JR	RENIN & RENAL FUNCTION IN DENERVATION AND HYPOXIA	R01HE 10996-02	SGYA	35,970
GOMBOS, ERVIN A	HEMODYNAMIC AND RENAL EFFECTS OF HEMODIALYSIS	R01HE 09805-03	CVB	8,145
GOODNOW, JACQUELINE J	THE CHILDS LINKS BETWEEN TOUCH, VISION, AND THOUGHT	R01HD 03105-01	MNHB	12,773
GRIFFIN, ANGUS M	GENERAL RESEARCH SUPPORT GRANT	S01FR 05359-07	NSS	203,777

TABLE 2—RESEARCH GRANTS, BY AREA, INSTITUTION, AND PRINCIPAL INVESTIGATOR

INVESTIGATOR	PROJECT TITLE	GRANT NO	IRG	DOLLARS
DIST OF COL—(CON.)				
HUGH, RUDOLPH	STUDY OF ALCALIGENES, PSEUDOMONAS, VIBRIOS, AND AEROMONA	ROI1A 07172-03	BM	20,616
JACOBSON, CECIL B	CYTOGENETIC STUDY OF EARLY GESTATIONAL ABNORMALITIES	ROI1HD 01734-03	HED	51,744
JOHNSON, SHIRLEY A	PLATELET ACTIVITY IN COAGULATION AND THROMBOSIS	ROI1HE 11382-02	PTHA	66,241
JOHNSON, THOMAS N	EXPERIMENTAL INVESTIGATION OF EXTRAPYRAMIDAL SYSTEMS	ROI1NB 02151-09	NEUA	19,041
KAPER, JACOBUS M	STRUCTURAL ANALYSIS OF SMALL, SPHERICAL VIRUSES	ROI1A1 04322-07	VR	36,630
MANDEL, H GEORGE	FUNDAMENTAL APPROACHES TO DRUG TOXICITY	PO1GM 13749-03	PTR	116,583
MANDEL, H GEORGE	INHIBITORY ACTION OF DRUGS ON GROWING MICROORGANISMS	ROI1A 04264-07	PHRB	49,699
MANDEL, H GEORGE	METHODS FOR STUDYING ACTION OF TUMOR INHIBITING DRUGS	ROI1CA 02978-12	PHRB	64,428
MC TIGUE, JOHN W	STUDY OF THE CORNEA BY LIGHT AND ELECTRON MICROSCOPY	ROI1NB 05575-04	VIS	52,800
PENHOS, JUAN C	HORMONES AND LIPID METABOLISM OF PERFUSED LIVER	ROI1AM 11331-01S1	MET	9,266
REICH, MELVIN	ISOLATION AND CHARACTERIZATION OF MYCOBACTERIAL ANTIGENS	ROI1A1 07099-03	ALY	23,879
STEPHENSON, ELIZABETH W	ION TRANSPORT IN VERTEBRATE SMOOTH MUSCLE	ROI1AM 10344-03	PHY	17,421
TICKTIN, HOWARD E	SERUM LIPASE CHARACTERIZATION AND CLINICAL STUDIES	ROI1HE 11125-04	MET	13,925
TREADWELL, CARLETON R	REGULATION OF BLOOD CHOLESTEROL ESTER LEVELS	ROI1HE 02033-14	MET	28,797
VAHOUNY, GEORGE V	MYOCARDIAL LIPID METABOLISM AND REGULATION	ROI1HE 09489-04	MET	33,241
WOLFF, FREDERICK W	EFFECTS OF TREATMENT IN HYPERTENSIVE DISEASE	ROI1HE 10102-04	SRC	82,164
INSTITUTION TOTAL	28 1,202,368			
GEORGETOWN UNIVERSITY				
ALEPA, FRANCIS P	SPECIFICITY OF RHEUMATOID FACTORS FOR HUMAN IGG	ROI1AM 09800-03	ALY	15,691
ALEPA, FRANCIS P	IDENTIFICATION OF A TRANSMISSIBLE AGENT IN RA	ROI1AM 12518-01	ALY	61,599
BECKER, ELMER L	CHEMICAL AND BIOLOGICAL REACTIVITY OF PCA ANTIBODY	ROI1A1 07444-02	ALY	33,128
BLECHER, MELVIN	ACTION OF ADRENAL STEROIDS, INSULIN & OTHER HORMONES	ROI1AM 05475-07	END	38,387
BLECHER, MELVIN	CONTROL OF FATTY ACID METABOLISM	ROI1AM 06208-06S1	MET	13,982
CALCAGNO, PHILIP L	EFFECT OF AGE ON EXPERIMENTAL NEPHRITIS	ROI1HD 06666-06	PTHA	14,359
CALCAGNO, PHILIP L	RENAL BLOOD FLOW & URINARY NH3 IN INFANTS & CHILDREN	ROI1HD 01754-03	CVA	20,880
COHN, JAY N	HEMODYNAMIC FACTORS IN CLINICAL SHOCK AND HYPOTENSION	ROI1HE 09785-03	CVA	24,906
COHN, JAY N	SPLANCHNIC HEMODYNAMICS IN MAN	ROI1HE 11533-01	CVA	17,327
EHRENPREIS, SEYMOUR	PROPERTIES OF CHOLINESTERASE IN INTACT TISSUES	ROI1NB 07050-02	PHRA	25,169
EHRENPREIS, SEYMOUR	MOLECULAR BASIS FOR LOCAL ANESTHETIC ACTION	ROI1NB 07241-02	PHRA	27,974
FINNERTY, FRANK A, JR	RESETTING THE BAROSTAT OF ARTERIAL PRESSURE IN MAN	ROI1HE 10294-03	CVA	17,098
FINNERTY, FRANK A, JR	THE RELATION OF SODIUM BALANCE TO ARTERIAL PRESSURE	ROI1HE 11713-01	CVB	24,145
GABRIEL, OTHMAR	BIOSYNTHESIS OF DEOXSUGARS	ROI1A1 07241-01S1	PC	898
GABRIEL, OTHMAR	BIOSYNTHESIS OF DEOXSUGARS	ROI1A1 07241-03	PC	28,065
GOLDSMITH, CARL	PROTEIN-SODIUM METABOLIC INTERRELATIONSHIPS	ROI1AM 09333-04	GMB	37,534
HARVEY, W PROCTOR	PHYSIOLOGIC STUDY OF HEART SOUNDS AND MURMURS	ROI1HE 03319-11	CVA	32,669
HARVEY, W PROCTOR	MYOCARDITIS-ETIOLOGIES, CLINICAL COURSE & PATHOLOGY	ROI1HE 06508-05S1	CVA	15,759
HELLEGERS, ANDRE E	IN VIVO AND IN VITRO STUDIES OF FETAL OXYGENATION	ROI1HD 03385-01	CVB	42,661
HIMMELSBACH, CLIFTON K	GENERAL RESEARCH SUPPORT GRANT	SO1FR 05306-07	NSS	64,523
HIMMELSBACH, CLIFTON K	GENERAL RESEARCH SUPPORT GRANT	SO1FR 05360-07	NSS	372,382
HORNER, WILLIAM H	BIOSYNTHESIS OF STREPTOMYCIN	ROI1A1 04065-07	MBC	49,054
HUFNAGEL, CHARLES A	CARDIOVASCULAR AND VALVULAR REPLACEMENT	ROI1HE 00914-18	SGYB	38,592
JANICKI, BERNARD W	A STUDY OF ANTIGENS AND ANTIBODIES IN TUBERCULOSIS	R22AI 07967-02	SSS	33,452
KATZ, EDWARD	BIOSYNTHESIS OF ACTINOMYCIN, AN ANTITUMOR AGENT	ROI1CA 06926-06	BIO	36,124
KING, THOMAS J	NUCLEOCYTOPLASMIC INTERACTIONS IN EGGS AND EMBRYOS	ROI1CA 10469-02	CBY	41,997
KUMAR, SOMA	BIOSYNTHESIS OF SHORT AND LONG CHAIN ACIDS	ROI1AM 08977-03S1	PC	10,410
KURTZKE, JOHN F	COOPERATIVE STUDY OF ACTH IN MULTIPLE SCLEROSIS	ROI1NB 05834-04A1	SRC	7,365
LANDMAN, OTTO E	MODE OF ENTRY OF DNA INTO BACTERIA	ROI1A1 05972-05	GEN	51,941
LEWIN, LAWRENCE M	THE BIOSYNTHESIS OF THIAMINE	ROI1AM 08393-05	BIO	12,798
LILJENFIELD, LAWRENCE S	RENAL HEMODYNAMICS - RBC AND PLASMA TRANSIT TIMES	ROI1HE 02987-12	CVB	61,624
LORBER, MORTIMER	THE SPLEEN AND INSECTICIDE-INDUCED HEMATOXICITY	ROI1ES 00165-02	TOX	23,391
LUMPP, SISTER M FRANCESCA	EXPLORATION OF THE CLINICAL NURSE SPECIALIST ROLE	R21NU 00186-02	NR	34,633
LYTLE, ROBERT B	VERTICAL RELATION OF OCCLUSION	ROI1DE 02653-01	DEN	14,508
MAHER, JOHN F	A DYNAMIC STUDY OF RENAL PATHOLOGY BY SERIAL BIOPSIES	ROI1AM 09779-02	PTHA	28,656
MARCUS, FRANK I	PHARMACOLOGICAL STUDIES OF THE CARDIAC GLYCOSIDES	ROI1HE 04713-07	PHRA	47,609
MARCUS, FRANK I	INTESTINAL ABSORPTION OF DIGITALIS GLYCOSIDES	ROI1HE 08919-03S1	PHRA	8,768
MARTIN, MALCOLM M	DIRECT SPECTROPHOTOMETRY OF STEROID CHROMATOGRAMS	ROI1AM 10910-02	BBCA	30,106
MC CAULEY, CHARLES E	MAXIMUM TUBULAR RESORPTION OF PHOSPHATE IN MAN	ROI1HE 10307-02	CVB	16,711
MC CURDY, PAUL R	A STUDY OF ABNORMAL HEMOGLOBIN SYNDROMES	ROI1AM 02823-09	HEM	15,573
MC CURDY, PAUL R	STUDY OF G-6-PD ISOENZYMES	ROI1AM 09307-04	HEM	17,871
MC FARLAND, WILLIAM	LYMPHOCYTE MECHANISMS AND FUNCTIONS	ROI1AM 10500-02	HEM	15,313
O ROURKE, J	CANNULATION INFUSION OF OCULAR ARTERIES	ROI1NB 03284-08	VIS	26,453
O ROURKE, J	UVEAL BLOODFLOW AND METABOLISM STUDIES IN VIVO	ROI1NB 04333-06	VIS	23,563
PERLOFF, JOSEPH K	HEART IN PROGRESSIVE MUSCULAR DYSTROPHY	ROI1HE 08390-05	CVB	4,368
PERLOFF, JOSEPH K	THE CIRCULATORY EFFECTS OF VASOACTIVE DRUGS	ROI1HE 09093-04	CVB	10,232
PIPBERGER, HUBERT V	DIGITAL COMPUTER ANALYSIS OF THE ELECTROCARDIOGRAM	ROI1HE 09696-04	COM	194,568
PRINCIOTTO, JOSEPH V	AMINO ACID CHELATING AGENTS AND IRON METABOLISM	ROI1AM 04447-07	HEM	35,183
RAMEY, ESTELLE R	STEROID HORMONE EFFECTS ON NA-K ACTIVATED ATPASE	ROI1AM 08843-04	GMB	15,157
RATH, CHARLES E	EFFECT OF TURBULENT FLOW ON RED CELLS AND PLATELETS	ROI1HE 10174-03	HEM	8,869
ROSE, JOHN C	GENERAL CLINICAL RESEARCH CENTER	MO1FR 00060-07	CLR	440,294
SAZ, ARTHUR K	PEPTIDES AS INDUCERS AND SUBSTRATES FOR PENICILLINASE	ROI1A1 06497-04	MBC	33,638
SHNIDER, BRUCE I	COOPERATIVE CANCER CHEMOTHERAPY STUDY—EASTERN GROUP	R10CA 02824-12S1	SRC	32,595
SHNIDER, BRUCE I	COOPERATIVE CANCER CHEMOTHERAPY STUDY EASTERN GROUP	R10CA 02824-13	SRC	159,541

TABLE 2—RESEARCH GRANTS, BY AREA, INSTITUTION, AND PRINCIPAL INVESTIGATOR

INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRG	DOLLARS
DIST OF COL—(CON.)				
SLIWINSKI, ANTHONY J	THE CLINICAL RESPONSE OF RHEUMATOID PATIENTS TO GOLD	R01AM 09476-02	GM	22,702
STANDAERT, FRANK G	PHARMACOLOGY OF NERVE TERMINALS	R01NB 07651-02	PHRA	24,746
STEINHARDT, JACINTO	EFFECTS OF PROTEIN INTERACTIONS ON PROTEIN STABILITY	R01GM 12085-05	BBCB	35,160
ZWAIFLER, NATHAN J	SYNOVIAL TISSUES IN RHEUMATOID ARTHRITIS	R01AM 05140-06	GM	30,090
ZWAIFLER, NATHAN J	EXPERIMENTAL & CLINICAL INVESTIGATION PROGRAM IN R A	R01AM 12059-02	SSS	37,045
INSTITUTION TOTAL	59	2,659,836		
GORGAS MEMORIAL INSTITUTE OF TROPICAL AND PREVENTIVE MEDICINE				
GALINDO, PEDRO	ECOLOGY OF ARTHROPOD-BORNE VIRUSES IN PANAMA	R01AI 02984-09	TMP	95,726
HERRER, ARISTIDES	THE TRANSMISSION OF LEISHMANIASIS IN PANAMA	R01AI 01251-12	TMP	103,618
JOHNSON, CARL M	CHAGAS DISEASE IN PANAMA	P01HE 10689-02	HEPA	101,164
INSTITUTION TOTAL	3	300,508		
HOWARD UNIVERSITY				
COSTELLO, LESLIE C	PARATHORMONE OXIDATIVE METABOLISM AND PHOSPHORYLATION	R01AM 12187-01S1	GMB	3,528
COSTELLO, LESLIE C	PARATHYROID METABOLISM AND CALCIUM CONTROL	R01AM 12188-01S1	GMB	3,078
DONALDSON, KENNETH D	MECHANISM OF 5-CH3-FOLATE-H4, SYNTHESIS AND OXIDATION	R01AM 07394-06	PC	21,503
ESTEP, ROGER D	SUPPORT OF ANIMAL FACILITIES	P06FR 00201-04	AR	41,348
FINLEY, HAROLD E	COMPARATIVE PHYSIOLOGY OF PERITRICH PROTOZOA	R01AI 00800-14	TMP	31,359
HAWTHORNE, EDWARD W	STUDIES IN EXPERIMENTAL O HUMAN HYPERTENSION	R01HE 01015-17	CVB	58,200
HAWTHORNE, EDWARD W	GENERAL RESEARCH SUPPORT GRANT	S01FR 05361-07	NSS	72,345
HENRY, JOSEPH L	GENERAL RESEARCH SUPPORT GRANT	S01FR 05307-07	NSS	38,935
KAPADIA, GOVIND J	ACOSPECTOSIDE A AND RELATED CARDENOLIDES	R01HE 11212-02	MCHA	8,227
MORRIS, HAROLD P	INDUCTING; CHARACTERIZING; MINIMAL DEVIATION HEPATOMAS	R01CA 10729-01	SSS	197,455
PIPKIN, SARAH B	OCTONOL DEHYDROGENASE POLYMORPHISM IN DROSOPHILA	R01GM 14937-02	GEN	24,421
YOUNG, ROSCOE C, JR	THE PATHOPHYSIOLOGY AND ETIOLOGY OF SARCOIDOSIS	R01AI 04819-06	PTHA	25,819
INSTITUTION TOTAL	12	526,218		
JAMES F. MITCHELL FOUNDATION FOR MEDICAL EDUCATION AND RESEARCH				
ASTRUP, TAGE	INVESTIGATIONS ON PATHOGENESIS OF ARTERIOSCLEROSIS	R01HE 05020-07S1	HEM	9,607
ASTRUP, TAGE	INVESTIGATIONS ON PATHOGENESIS OF ARTERIOSCLEROSIS	R01HE 05020-08	HEP	254,203
INSTITUTION TOTAL	2	263,810		
LEONARD WOOD MEMORIAL				
BINFORD, CHAPMAN H	LEPROSY CULTIVATION, TRANSMISSION, PATHOLOGY, THERAPY	R22AI 07266-02	SSS	190,155
CHANG, SING C	STRUCTURAL CHANGES IN M LEPRAE AND OTHER MYCOBACTERIA	R01AI 03546-08	BM	37,107
INSTITUTION TOTAL	2	227,262		
NATIONAL ACADEMY OF SCIENCES				
VORIS, LE ROY	EVALUATION OF HUMAN NUTRIENT REQUIREMENTS	R01AM 05296-07	NTN	30,780
INSTITUTION TOTAL	1	30,780		
PAN AMERICAN HEALTH ORGANIZATION				
MATA, LEONARDO J	COLONIZATION OF INTESTINE OF CHILDREN BY MICROORGANISMS	R01AI 05405-06	VR	50,174
INSTITUTION TOTAL	1	50,174		
SMITHSONIAN INSTITUTION				
HOGUE, ALPHONSE R	MONOGRAPHIC STUDY OF THE PIT VIPERS OF THE WORLD	R01LM 00418-01	SSS	22,203
VELASQUEZ, CARMEN C	PARASITES OF PHILIPPINE FISHES	R01AI 06603-03	TMP	5,464
INSTITUTION TOTAL	2	27,667		
ST. ELIZABETH'S HOSPITAL				
NEUMANN, META A	RETICULAR FORMATION AND BASAL GANGLIA PATHOLOGY	R01NB 05783-03	NEUA	11,454
THONNARD, ERNST	HORMONAL CONTROL OF BASOPHILIC LEUKOCYTES	R01HE 07362-07	HEM	16,383
INSTITUTION TOTAL	2	27,837		
TRINITY COLLEGE				
DIMOND, MARIE T	TURTLE PITUITARY HISTOGENESIS AND THYROID FUNCTION	R01AM 01766-07	CBY	7,033
INSTITUTION TOTAL	1	7,033		
WASHINGTON HOSPITAL CENTER				
MAUGER, ANTHONY B	ANALOGS OF ACTINOMYCIN, AN ANTITUMOR AGENT	R01AI 07662-02	MCHA	29,105
WINSHIP, THEODORE	CARCINOMA OF THE THYROID IN CHILDREN	R01CA 09263-16	EDC	1,921
INSTITUTION TOTAL	2	31,026		
STATE TOTAL	145	6,395,470		
FLORIDA				
BOCA RATON				
FLORIDA ATLANTIC UNIVERSITY				
MICHEL, KENNETH M	PHYLOGENY AND ONTOGENY OF DISCRIMINATION BEHAVIOR	R01HD 01454-04S1	EP	2,001
MICHEL, KENNETH M	PHYLOGENY AND ONTOGENY OF DISCRIMINATION BEHAVIOR	R01HD 01454-05	EXP	14,498
INSTITUTION TOTAL	2	16,499		
CORAL GABLES				
MIAMI UNIVERSITY OF				
ANDERSON, DAVID G	FORMATION AND UTILIZATION OF TERPENES	R01GM 12229-05	PC	20,845

TABLE 2—RESEARCH GRANTS, BY AREA, INSTITUTION, AND PRINCIPAL INVESTIGATOR

INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRG	DOLLARS
FLORIDA—(CON.)				
CLEGG, JAMES S	AN ANALYSIS OF DEVELOPMENT IN ARTEMIA SALINA EMBRYOS	RO1HD 03478-03	CBY	21,466
EHRENKRANZ, N JOEL	NON HOSPITAL CARRIERS OF RESISTANT STAPHYLOCOCCI	RO1AI 02429-10	BM	34,137
GOLLAN, FRANK	THE EFFECT OF HYPOTHERMIA ON ACUTE CARDIAC DECOMPENSATIO	RO1HE 11199-02	SGYA	17,391
GRABOWSKI, CASIMER T	TERATOGENIC SIGNIFICANCE OF FLUID AND IONIC IMBALANCE	RO1HD 00641-05	HED	28,263
LUYKX, PETER V	CHROMOSOME ORIENTATION AND MOVEMENT IN CELL DIVISION	RO1HD 03519-01	CBY	22,069
MAN, EUGENE H	BIOMEDICAL SCIENCES SUPPORT	S05FR 07022-03	NSS	62,924
MEYERS, SAMUEL P	WATER QUALITY & FUNGI-NEMATODE-SEAGRASS RELATIONSHIPS	RO1GM 12482-04	TMP	31,674
MORTON, JULIA F	SEARCH FOR POSSIBLE PLANT CAUSES OF ESOPHAGEAL CANCER	RO1CA 07966-04	PTHB	45,119
OWRE, HARDING B	DEVELOPMENTAL STUDIES OF SELECTED INVERTEBRATES	RO1GM 12541-04	SSS	25,408
TEAS, HOWARD J	CYCASIN BIOSYNTHESIS AND METABOLISM	RO1CA 10642-01	MBY	32,801
INSTITUTION TOTAL	11	342,097		
GAINESVILLE				
FLORIDA UNIVERSITY OF				
ALLEN, CHARLES M, JR	PHOSPHATE ESTER HYDROLYSIS AND TERPENE BIOSYNTHESIS	RO1AM 12193-01	PC	14,359
ANDERSEN, NIKAAAN B	EFFECT OF ANESTHETICS ON NA AND K TRANSPORT	RO1GM 13029-04	PHRA	23,850
ANDERSEN, NIKAAAN B	TERATOGENICITY OF ANESTHETICS	RO1HD 00083-05	HED	13,436
ANDERSEN, THORKILD W	DRUG INTERACTIONS IN ANESTHESIA IN MAN	RO1GM 16239-07	SGYA	12,875
ANTON, AARON H	EPINEPHRINE METABOLISM IN HYPERTENSION	RO1HE 05251-08	CVA	27,475
BEALL, CHARLES N	BIOMEDICAL SCIENCES SUPPORT	S05FR 07021-03	NSS	83,053
BERNSTEIN, JERALD J	REGENERATION IN THE CENTRAL NERVOUS SYSTEM	RO1NB 06164-03	NEUB	11,395
BILLEN, DANIEL	ALKYLATION AND REGULATION OF DNA SYNTHESIS	RO1CA 10753-01	PC	18,432
BLOCK, SEYMOUR S	ACTIVITY OF MIXED THIOISULFONATES AND DISULFIDES	RO1CA 10853-01	PHRB	41,260
BROOKBANK, J W	ANTIGEN DISTRIBUTION OF DEVELOPING SEA URCHIN EMBRYOS	RO1GM 04659-12	CBY	14,664
BUTLER, GEORGE B	SYNTHESES RELATED TO POLYMERS OF ANTI-CANCER ACTIVITY	RO1CA 06838-06	MCHB	23,883
BYVOET, PAUL	MAMMALIAN CHROMATIN DURING CARCINOGENESIS	RO1CA 10472-01	BIO	49,387
CADE, JAMES R	PHYSIOLOGIC REGULATION OF ALDOSTERONE SECRETION	RO1AM 05712-06	GMB	29,022
CASSIN, SIDNEY	CONTROL OF FETAL AND NEONATAL PULMONARY CIRCULATION	RO1HE 10834-02	HED	13,781
CHILDERS, DONALD G	QUANTIFICATION OF CORTICAL SIGNALS AND NOISE IN VISION	RO1NB 06875-02	VIS	59,259
CLUFF, LEIGHTON E	EPIDEMIOLOGY & PATHOGENESIS OF ADVERSE DRUG REACTIONS	RO1GM 15489-01	PHRB	45,880
COLLINS, GEORGE H	ULTRASTRUCTURAL NEUROPATHOLOGY OF NUTRITIONAL DISEASE	RO1NB 04494-06	NEUB	25,414
CRANDALL, CATHARINE A	HISTOPATHOLOGIC AND IMMUNOLOGIC STUDIES IN ASCARIASIS	RO1AI 03212-09	TMP	23,412
CREVASSE, LAMAR E	INCREASE IN OXYGEN CONSUMPTION BY GLYCOSIDES	RO1HE 07190-06S1	PTHA	2,142
DAVIS, GEORGE K	FACTORS CAUSING SOFT TISSUE CALCIFICATION	RO1AM 09089-03	PTHA	42,388
DAVIS, GEORGE K	DIETARY TRACE ELEMENTS AND HEART MUSCLE FUNCTION	RO1HE 01318-15S1	NTN	12,186
DAWSON, WILLIAM W	ONTOGENESIS OF HUMAN VISUAL DISCRIMINATION	RO1NB 06635-02	VIJ	30,432
DRAGSTEDT, LESTER R	THE PATHOGENESIS OF GASTRIC ULCER	RO1AM 04178-09	SGYA	49,620
ELIOT, ROBERT S	BIOCHEMICAL QUANTITATIVE CARDIOVASCULAR PATHOLOGY	RO1HE 11910-01	PTHA	28,569
FISHER, WALDO R	ACYLATED MOIETY OF PLASMA LIPOPROTEINS	RO1HE 10316-03	PC	16,252
FREGLY, MELVIN J	EFFECT OF DIURETICS ON RENAL IODIDE EXCRETION	RO1AM 10772-02	END	10,535
FREGLY, MELVIN J	THE ROLE OF THE THYROID GLAND IN HYPERTENSION	RO1HE 03503-10	END	9,282
FRIED, MELVIN	CHARACTERIZATION OF PROTEIN MOIETIES OF LIPOPROTEINS	RO1AM 02457-10	MET	32,770
GARRETT, EDWARD R	STABILITY KINETICS AND OPTIMIZATION OF DRUGS	RO1CA 10738-06	MCHA	25,817
GIFFORD, GEORGE E	STUDIES ON INTERFERON	RO1AI 04361-07	VR	25,510
GOODMAN, DONALD C	STUDIES ON FUNCTIONAL ANATOMY OF THE CEREBELLUM	RO1NB 01548-11	NEUA	17,894
GRAVENSTEIN, JOACHIM S	ANESTHETIC EFFECTS ON ABNORMAL ATRIA	RO1HE 09947-03	PHRA	8,581
GREER, MELVIN	ABNORMAL AMINO ACID METABOLISM IN MENTAL RETARDATION	RO1HD 01326-04	MET	12,700
GREGG, JAMES H	INTERACTIONS BETWEEN CELLS OF AMOEBOID SLIME MOLDS	RO1GM 10138-06	CBY	27,883
HARMS, ROBERT H	REPRODUCTIVE DISORDERS OF PROTEIN DEFICIENT CHICKENS	RO1HD 00029-03	NTN	21,992
HILDEBRANDT, RICHARD J	TRANSFER OF VIRAL INFECTIONS ACROSS THE PLACENTA	RO1HD 02289-02	VR	31,466
HOREL, JAMES A	EXPERIMENTS ON THE VISUAL SYSTEM	RO1NB 05569-04	VIS	27,479
HUMPHREYS, THOMAS E	ABSORPTION OF SUGARS BY CORN SCUTELLUM SLICES	RO1AM 07299-06	PC	13,166
JOHNSON, E MARSHALL	HISTOCHEMICAL CHANGES ASSOCIATED WITH TERATOGENESIS	RO1HD 00109-05	HED	23,391
KALLENBACH, ERNST A	FINE STRUCTURE OF ENAMEL OF INCISOR	RO1DE 02241-03	DEN	5,540
KAUFMAN, HERBERT E	OUTPATIENT CLINICAL RESEARCH ON EXTERNAL OCULAR DISEASE	P15NB 06839-02	NBP	77,843
KAUFMAN, HERBERT E	OCULAR HERPES SIMPLEX	RO1NB 03538-07	VIS	78,960
KAUFMAN, HERBERT E	CORNEAL PRESERVATION AND KERATOPLASTY	RO1NB 05037-05	VIS	59,434
KOHUT, ROBERT I	VESTIBULAR AND AUDITORY FUNCTION OF THE SACCULUS	RO1NB 07007-02	CMS	15,748
KONISHI, TERUZO	ELECTRO-ANATOMY OF THE COCHLEA	RO1NB 05016-05	CMS	45,922
LANGDON, ROBERT G	LIPID BIOSYNTHESIS AND ITS PHYSIOLOGICAL CONTROL	RO1HE 12383-01	PC	36,256
MAREN, THOMAS H	INHIBITION OF CARBONIC ANHYDRASE AND RELATED SYSTEMS	RO1NB 01297-12	PHRA	28,556
MC KERNS, KENNETH W	MECHANISM OF HORMONAL REGULATION OF METABOLISM	RO1AM 04930-08	END	25,793
MOORE, PAUL	A COMMUNICATION SCIENCES RESEARCH PROGRAM	P01NB 06459-02S1	NBP	366
MOORE, PAUL	A COMMUNICATION SCIENCES RESEARCH PROGRAM	P01NB 06459-03	NBPB	251,784
MOORELAND, ALVIN F	PRIMATE RESEARCH PROGRAM	RO1HE 06379-07	PR	65,649
MOSCOVICI, CARLO	SPECIFICITY OF AVIAN MYELOBLASTOSIS VIRUS	RO1CA 10697-01	VR	11,437
MOSCOVICI, CARLO	SPECIFICITY OF AVIAN MYELOBLASTOSIS VIRUS	RO1CA 10697-02	VR	39,750
NEWCOMB, THOMAS F	HEMOLYTIC DISEASE AND THROMBOSIS	RO1HE 04967-09	HEM	18,012
NOYES, WARD D	PROBLEMS IN ERYTHROKINETICS	RO1HE 06126-08	HEM	32,923
O BRIEN, THOMAS W	STRUCTURE AND FUNCTION OF MITOCHONDRIAL RIBOSOMES	RO1GM 15438-01	MBY	20,770
PASCHALL, HOMER A	ULTRASTRUCTURE MORPHOLOGY OF BONE	R 01AM 12225-01	CBY	20,692
PERRY, NATHAN W, JR	MONOCULAR AND BINOCULAR EVOKED POTENTIALS	RO1NB 06654-02	VIS	32,483
PREVIC, EDWARD P	MECHANISM OF CELL DIVISION IN BACTERIA	RO1AI 07541-02	MBY	10,629

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INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRG	DOLLARS
FLORIDA—(CON.)				
PRYSTOWSKY, HARRY	CIRCULATORY AND RESPIRATORY PHYSIOLOGY IN FEMALES	RO1HD 00546-07	HED	23,263
PRYSTOWSKY, HARRY	PHYSIOLOGICAL ASPECTS OF PLACENTAL PERMEABILITY	RO1HD 01683-03	HED	20,267
ROBERTS, LAMAR	STIMULATION COMPARED WITH EXCISION IN BRAIN	RO1NB 02131-10	EXP	55,860
ROBERTSON, DOUGLAS R	ENDOCRINE MECHANISMS OF THE ULTIMOBRANCHIAL BODY	RO1AM 11795-01	GMB	16,208
RUBIN, MELVIN L	OUTER SEGMENT PRODUCTION AND DYSTROPHY	RO1NB 07528-01	VIS	8,894
RYSCHKEWITSCH, GEORGE E	BORON CATIONS AND RELATED HETEROCYCLIC COMPOUNDS	RO1GM 13650-02	MCHA	36,766
SANDER, EUGENE G	DIHYDROPYRIMIDINE SYNTHESIS AND DEGRADATION	RO1CA 10847-01	BIO	23,494
SANDERS, W EUGENE, JR	BACTERIAL INTERFERENCE AND PYOGENIC INFECTIONS	RO1AI 06514-03	BM	13,759
SHANDS, JOSEPH W, JR	ENDOTOXIN AND PATHOGENESIS OF INFECTION	RO1AI 07257-02	BM	24,150
SHIPP, JOSEPH C	CELL PERMEABILITY AND METABOLISM OF HEART MUSCLE	RO1AM 04829-09	MET	24,209
SIMPSON, CHARLES F	CAUSE OF DISSECTING ANEURYSMS	RO1HE 03776-10	PTHA	25,770
SIMPSON, CHARLES F	ULTRASTRUCTURE OF THE CARDIOVASCULAR SYSTEM	RO1HE 06580-07	PTHA	25,753
SINGLETON, GEORGE T	RANDOM NOISE ANALYSIS IN VESTIBULAR EVALUATION	RO1NB 03451-07	CMS	23,387
SISLER, HARRY H	CHLORAMINATION OF ELECTRON DONORS AND ACCEPTORS	RO1CA 08263-03	MCHB	37,752
SMALL, PARKER A, JR	IMMUNOGLOBULINS OF PHYLOGENETICALLY ANCIENT ANIMALS	RO1AI 07713-02	ALY	19,284
SMITH, DOROTHY M	A PROJECT TO IMPROVE RESEARCH COMPETENCY IN FACULTY	RO2NU 00112-05	NR	59,321
SMITH, RICHARD T	ONTOGENY OF IMMUNE MECHANISMS	RO1HD 00384-10	IMB	99,020
SMITH, RICHARD T	WORKSHOP ON DEVELOPMENTAL IMMUNOLOGY	R13HD 01224-04	NSS	13,367
STAINSBY, WENDELL N	REGULATION OF OXYGEN USE BY MAMMALIAN SKELETAL MUSCLE	RO1GM 06264-10	PHY	12,693
STENGER, VINCENT G	MATERNAL-FETAL RELATIONSHIPS IN THE PRIMATE	RO1HD 01542-03	HED	20,687
SUNDERMAN, F WILLIAM, JR	PULMONARY CARCINOGENESIS WITH NICKEL AND BENZPYRENE	RO1CA 08783-02	PTHB	21,991
SUTER, EMANUEL	GENERAL CLINICAL RESEARCH CENTER	MO1FR 00082-06	CLR	312,975
SUTER, EMANUEL	GENERAL RESEARCH SUPPORT GRANT	SO1FR 05362-07	NSS	279,745
SWENSON, EDWARD W	PULMONARY EDEMA FROM PULMONARY ARTERY OCCLUSION	RO1HE 09333-03S1	CVB	6,026
TALBERT, JAMES L	METABOLIC RESPONSES TO SURGICAL STRESS IN INFANCY	RO1HD 03297-01	SGYA	33,724
TAYLOR, WILLIAM J	SICKLE CELL ANEMIA	RO1HE 05004-09	HEM	44,343
THOMAS, WILLIAM C, JR	THE CONTROL OF BIOLOGIC MINERALIZATION	RO1AM 10732-02	GMB	33,018
VAN MIDDELEM, CHARLES H	PESTICIDE METHODOLOGY AND FATE IN THE ENVIRONMENT	PO1ES 00208-02	SSS	93,754
VAN MIEROP, LODEWYK	DEVELOPMENT OF THE CONDUCTION SYSTEM OF THE HEART	RO1HE 10912-03	CVB	12,141
VIERCK, CHARLES J, JR	SPINAL SOMESTHETIC PATHWAYS	RO1NB 07261-02	NEUB	20,233
WALKER, ROBERT D, JR	DIFFUSIVITY OF GASES & VAPORS IN SOLVENT SYSTEMS	RO1GM 14570-02	BBCA	28,616
WEIL, WILLIAM B, JR	EARLY NUTRITION, BODY COMPOSITION AND AGING	RO1HD 00642-05	NTN	2,849
WHEAT, MYRON W, JR	COOPERATIVE LUNG CANCER STUDY	RO1CA 07452-05	SRC	9,079
WHITE, FRANKLIN H	VIRIO FETUS INFECTIONS IN ANIMALS AND MAN	RO1AI 07912-02	BM	16,902
WILDER, B JOE	EPILEPTOGENESIS AND SUBCORTICAL MECHANISMS	RO1NB 06881-02	NEUA	15,630
WILLIAMS, CLYDE M	MAMMALIAN AROMATIC AMINE METABOLISM	RO1AM 08391-07	MET	9,666
WINEFORDNER, JAMES O	PHOSPHORIMETRIC ANALYSIS OF DRUGS IN BLOOD AND URINE	RO1GM 11373-05	MCHB	35,640
WOODARD, JAMES C	TOXICITY OF DIETS CONTAINING ALPHA PROTEIN	RO1ES 00266-02	PTHA	13,972
WOODWARD, EDWARD R	NEUROHUMORAL MECHANISMS INFLUENCING GASTRIC FUNCTION	RO1AM 02372-10	SGYB	29,126
INSTITUTION TOTAL	98	3,482,773		
JACKSONVILLE				
BAPTIST MEMORIAL HOSPITAL				
ANDERSON, AUGUSTUS E, JR	FIBROSIS IN EMPHYSEMATOUS AND AGING LUNGS	RO1HE 04088-07S1	PTHA	5,128
ANDERSON, AUGUSTUS E, JR	FIBROSIS IN EMPHYSEMATOUS AND AGING LUNGS	RO1HE 04088-08	PTHA	21,026
FORAKER, ALVAN G	CARDIAC MASS, PULMONARY VASCULATURE AND EMPHYSEMA	RO1HE 11009-02	PTHA	4,829
INSTITUTION TOTAL	3	30,983		
FLORIDA STATE BOARD OF HEALTH				
BECK, ELISABETH C	THE CHIRONOMIDAE OF FLORIDA	RO1AI 04098-07	TMP	6,607
SOWDER, WILSON T	GENERAL RESEARCH SUPPORT GRANT	SO1FR 05553-06	NSS	105,764
INSTITUTION TOTAL	2	112,371		
JACKSONVILLE HOSPITALS EDUCATIONAL PROGRAM				
MICHAEL, MAX, JR	THE MEDICAL LIBRARY IN CONTINUING EDUCATION	RO1LM 00357-02	NSS	10,307
INSTITUTION TOTAL	1	10,307		
MIAMI				
COMMUNICATION RESEARCH INSTITUTE				
TRUBY, HENRY M	NEONATAL CRY-SOUND ANALYSIS IN PEDIATRIC DIAGNOSIS	RO1HD 01985-02	CMS	32,525
INSTITUTION TOTAL	1	32,525		
MIAMI UNIVERSITY OF				
ANDERSON, W A	STUDIES ON NORMAL AND MALIGNANT GROWTHS	RO1CA 06045-07	PTHB	16,345
AVERETTE, HERY E	CELLULAR KINETICS OF FEMALE GENITAL TISSUES	RO1CA 10192-01A1	PTHB	27,414
BERGS, VICTOR V	VIRUS 9HV INDUCED PELIOSIS HEPATIS IN THE RAT	RO1CA 10627-01	VR	34,555
BERMAN, IRWIN	A STUDY OF BONE MARROW STEM CELLS	RO1AM 10104-03	HEM	32,352
BLANK, HARVEY	ELECTRON MICROSCOPY OF NORMAL AND NEOPLASTIC CELLS	RO1CA 04036-10	GM	29,101
BOUCEK, ROBERT J	ROLE OF CONNECTIVE TISSUE IN CARDIOVASCULAR DISEASE	PO1HE 11035-02	HEPA	149,737
BRIDGERS, WILLIAM F	STUDIES ON MAMMALIAN DEVELOPMENTAL BIOCHEMISTRY	RO1HD 02793-01S1	BIO	3,799
BRIDGERS, WILLIAM F	STUDIES ON DEVELOPMENTAL BIOCHEMISTRY	RO1NB 07880-02	BIO	26,685
CLEVELAND, WILLIAM W	ANDROGEN METABOLISM IN SEXUAL DEVELOPMENT OF CHILDREN	RO1AM 04431-08	END	18,408
COLSKY, JACOB	STUDY OF COMPLEMENT C AND C FACTORS IN CANCER	RO1CA 10555-01	PHRB	26,596
COLSKY, JACOB	COOPERATIVE CLINICAL EVALUATION OF ANTI TUMOR DRUGS	R10CA 02822-13	SRC	66,726

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INVESTIGATOR	PROJECT TITLE	GRANT NO	IRG	DOLLARS
FLORIDA—(CON.)				
CONNOR, JAMES D	PERTUSSIS SYNDROME AND INFECTIONS LYMPHOCYTOSIS	ROI1 07719-02	VR	32,537
DAVID, NOBLE J	EXPERIMENTAL FLUORESCIN ANGIOGRAPHY	ROI1 07302-02	VIS	31,445
DEICHMANN, WILLIAM B	THE STUDY OF THE ECOLOGY OF PESTICIDES	PO1E 00052-04	ERT	162,615
DIETRICH, LA ROY S	COENZYME METABOLISM IN INTACT CELLS	ROI1 03049-09	MET	19,790
DIETRICH, LAROE S	HORMONAL REGULATION OF NEOPLASTIC GROWTH	ROI1 04868-09	PHRB	40,123
FLYNN, JOHN T	CHANGE OF FIXATION IN AMBLYOPIA	ROI1 06787-02	VIS	23,482
FROST, PHILLIP	METABOLIC EFFECTS OF STEROID HORMONES ON SKIN	ROI1 11559-01S1	GMA	1,545
FROST, PHILLIP	METABOLIC EFFECTS OF STEROID HORMONES ON SKIN	ROI1 11559-02	GMA	56,478
GOLLAN, FRANK	INTRACARDIAC IMPEDANCE PLETHYSMOGRAPHY	ROI1 09868-02S1	CVA	246
GUNN, SAMUEL A	COINDUCED INTERSTITIAL CELL TUMORS PREVENTION BY ZN	ROI1 07004-05	END	32,400
GUNN, SAMUEL A	HORMONE SYNERGISM ON DORSOLATERAL PROSTATE ZN65 UPTAKE	ROI1 10010-02	END	12,839
GUNN, SAMUEL A	TRACE METAL IMBALANCES IN CONTROL OF MALE FERTILITY	ROI1 02999-02	REB	27,839
GUNN, SAMUEL A	VASCULAR MANIFESTATIONS CAUSED BY SELENIUM IMBALANCES	ROI1 11349-02	PTHA	33,688
HALBERT, SEYMOUR P	STREPTOCOCCAL PRODUCTS INVOLVED IN HUMAN DISEASE	ROI1 10215-03	ALY	73,171
HAMASAKI, DUCO I	EFFECT OF VISUAL DEPRIVATION ON THE RETINA	ROI1 07575-01	VIS	55,358
HARRINGTON, WILLIAM J	IMMUNOLOGY AND BIOCHEMISTRY OF BLOOD DISEASES	PO1A 09001-04	AMP	176,951
HILLS, A GORMAN	SUPPLEMENTAL RENAL DEFENSE AGAINST ALKALI EXCESS	ROI1 11872-01	GMB	36,782
HOWELL, DAVID S	ROLE OF PHOSPHOLIPIDS IN MINERALIZATION OF OSTEOID	ROI1 08662-04	MET	57,578
HSIA, S L	METABOLIC STUDIES OF MONOHYDROXYLATED BILE ACIDS	ROI1 07924-06	MET	38,839
HSIA, S L	STEROID BIOGENESIS AND METABOLISM IN HUMAN SKIN	ROI1 09497-04	GM	45,723
HSIA, S L	LIPOGENESIS IN HUMAN SKIN	ROI1 10933-02	GMA	38,623
JOFFE, SEYMOUR	PLASMALOGEN BIOSYNTHESIS, CNS CHEMICAL PATHOLOGY	ROI1 06415-01S1	NEUB	3,498
JUDE, JAMES R	SURGICAL TREATMENT IN ACUTE MYOCARDIAL INFARCTION	ROI1 11024-02	SGYA	58,807
KALSER, MARTIN H	SUGAR OSMOLALITY AND GUT FLUX OF WATER AND CATIONS	ROI1 05715-06	GM	26,154
KROLL, ARNOLD J	ELECTRON MICROSCOPY OF RETINAL CHANGES	ROI1 05918-03	VIS	35,724
LAMPE, KENNETH F	PROTEIN BINDING AND METABOLISM OF 3 NITRO 3 HEXENE	ROI1 08160-04	PTHB	17,880
LE MAIRE, WILLIAM J	ENDOMETRIAL CARCINOMA AND OVARIAN STEROIDOGENESIS	ROI1 10692-01	END	27,462
LESSNER, HOWARD E	SOUTHEASTERN COOPERATIVE CHEMOTHERAPY GROUP	ROI1 05641-08	SRC	39,450
LITTLE, WILLIAM A	TERATOLOGICAL STUDIES	ROI1 02743-02	HED	36,680
MARKS, ASHER	PULMONARY FUNCTION IN BULLOUS EMPHYSEMA	ROI1 10402-03	CVA	29,684
MARSH, JOHN M	MECHANISM OF ACTION OF LUTEINIZING HORMONE	ROI1 03142-01	REB	31,325
MARTIN, DANIEL S	THERAPEUTIC STUDIES ON SPONTANEOUS MAMMARY CANCER	ROI1 04497-10	PHRB	77,283
MODELL, JEROME H	PATHOPHYSIOLOGY OF DROWNING	ROI1 12154-02S1	PTHA	915
MODELL, JEROME H	PATHOPHYSIOLOGY OF DROWNING	ROI1 12154-03	PTHA	35,401
MOYA, FRANK	TERATOGENIC EFFECTS OF ANESTHESIA	ROI1 01434-04	HED	34,037
NORTON, EDWARD W	A STUDY OF MACULAR DISEASE	PI1 06841-03	N8PB	112,622
NORTON, EDWARD W	RETINAL ANGIOGRAPHY	ROI1 05051-05	CVB	24,314
NYHAN, WILLIAM L	PHYSIOLOGY OF NORMAL AND ABNORMAL GROWTH AMINO ACIDS	ROI1 00127-05	SSS	13,909
NYHAN, WILLIAM L	DEVELOPMENTAL PHARMACOLOGY THALIDOMIDE	ROI1 01073-04	PET	24,868
NYHAN, WILLIAM L	AMINO ACID INTERRELATIONS IN HUMAN METABOLIC DISEASE	ROI1 02609-06	PC	40,354
NYHAN, WILLIAM L	ACUTE LEUKEMIA COOPERATIVE GROUP B	ROI1 08080-04	SRC	68,633
PAFF, GEORGE H	METABOLIC PROPERTIES OF THE EMBRYONIC HEART	ROI1 03565-11	PHY	20,531
PETERSON, ERNEST A	PERIPHERAL AUDITORY RESPONSES	ROI1 06524-03	CMS	36,567
RADOMSKI, JACK L	MECHANISM OF BLADDER CANCER	ROI1 05449-07	PHRB	82,365
ROCKSTEIN, MORRIS	SOME PHYSIOLOGICAL ASPECTS OF AGING	ROI1 00261-07	MET	22,139
ROCKSTEIN, MORRIS	AGING IN MUSCA DOMESTICA L	ROI1 00571-07	TMP	29,923
SALLMAN, BENNETT	A CENTER FOR THE STUDY OF CELLULAR AGING	PO1H 00670-06S2	HOP	5,520
SALLMAN, BENNETT	STUDIES IN THE AGING OF CELLULAR COMPONENTS	ROI1 01971-03	MET	35,327
SAVARD, KENNETH	ACTION OF GONADOTROPINS IN GONADAL TISSUES	ROI1 04004-10S1	END	4,897
SAVARD, KENNETH	ACTION OF GONADOTROPINS IN GONADAL TISSUES	ROI1 03248-11	END	104,858
SCHEINBERG, PERITZ	RESEARCH CENTER FOR CEREBRAL VASCULAR DISEASE	ROI1 05820-03	N8PA	322,240
SHIPLEY, THORNE	VISUAL DIRECTION AND ANOMALOUS CORRESPONDENCE	ROI1 06343-03	VIS	25,276
SIGEL, M MICHAEL	IMMUNITY AND RESISTANCE IN MARINE FISHES	ROI1 05758-05	IMB	61,437
SILVERBLATT, CHARLES W	COOPERATIVE STUDY OF DRUGS AND CORONARY HEART DISEASE	ROI1 10703-03	SRC	62,282
SMITH, EDWARD M	EXPERIMENTAL CLINICAL INVESTIGATION IN R A	ROI1 12060-01	GMA	67,071
SMITH, J LAWTON	EXPERIMENTAL OCULAR HISTOPLASMOSIS	ROI1 06308-03	VIS	40,515
SPELLACY, WILLIAM N	PLASMA INSULIN AND GROWTH HORMONE LEVELS IN PREGNANCY	ROI1 03145-01S1	NSS	3,568
STRAIGHT, WILLIAM M	HISTORY OF MEDICINE IN FLORIDA	ROI1 00074-02	HLS	7,674
TOBIN, WAYNE E	CHARACTERIZATION OF INDIVIDUAL MOTOR NEURONS IN MAN	ROI1 07063-02	NEUB	20,159
VAN WAGTENONK, WILLEM J	ENDOSYMBIOTES OF PARAMECIUM AURELIA	ROI1 03644-08	CBY	48,111
VIAMONTE, MANUEL, JR	SYNTHESIS OF SOLUBLE MACROMOLECULES FOR ANGIOGRAPHY	ROI1 06567-06	RAO	18,093
VIAMONTE, MANUEL, JR	HODGKINS DISEASE PROTOCOL	ROI1 08968-02	RAD	5,858
VIAMONTE, MANUEL, JR	SECOND INTERNATIONAL CONGRESS ON LYMPHOLOGY CONFERENCE	ROI1 10730-01	NSS	2,693
WARREN, W DEAN	GENERAL CLINICAL RESEARCH CENTER	MO1R 00261-03	CLR	459,479
WARREN, W DEAN	PHYSIOLOGY OF PORTAL HYPERTENSION AND PORTACAVAL SHUNT	ROI1 08411-05	SGYA	101,533
WARREN, W DEAN	GENERAL RESEARCH SUPPORT GRANT	SO1F 05363-07	NSS	332,669
WEBSTER, HENRY DEF	FINE STRUCTURE OF PATHOLOGICAL PERIPHERAL NERVE	ROI1 07011-02	PTHA	44,024
WEINSTEIN, GERALD D	CELLULAR KINETICS OF CUTANEOUS PROLIFERATIVE DISEASES	ROI1 10292-02	PTHB	35,839
WHELAN, WILLIAM J	STRUCTURE AND METABOLISM OF GLYCOGEN	ROI1 12532-01	MET	96,735
ZAIAS, NARDO	THE BIOLOGY & PATHOPHYSIOLOGY OF NAILS	ROI1 09692-03	GM	41,792
ZINNER, DORAN D	ROLE OF CARIOGENIC STREPTOCOCCI IN DENTAL CARIES	PO1D 02552-02	DEP	253,927
INSTITUTION TOTAL	82	4,561,872		

TABLE 2—RESEARCH GRANTS, BY AREA, INSTITUTION, AND PRINCIPAL INVESTIGATOR

INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRG	DOLLARS
FLORIDA—(CON.)				
PAPANICOLAOU RESEARCH INSTITUTE				
SCHULTZ, JULIUS	BIOCHEMICAL STUDIES IN CANCER	R01CA 10904-01	PC	51,763
INSTITUTION TOTAL	1 51,763			
VARIETY CHILDREN'S HOSPITAL, VARIETY CHILDREN'S RESEARCH FOUNDATION				
BERGS, VICTOR V	LEUKEMOGENIC AGENT DERIVED FROM DMBA RAT TUMORS	R01CA 08708-04	VR	35,640
INSTITUTION TOTAL	1 35,640			
MIAMI BEACH				
MIAMI HEART INSTITUTE				
GOSSELIN, ARTHUR J	COOPERATIVE STUDY OF DRUGS AND CORONARY HEART DISEASE	R01HE 11370-02	SRC	40,618
INSTITUTION TOTAL	1 40,618			
MOUNT SINAI HOSPITAL OF GREATER MIAMI				
BERNSTEIN, WILLIAM H	COOPERATIVE STUDY OF DRUGS AND CORONARY HEART DISEASE	R01HE 10446-03	SRC	88,782
KUSHNER, DANIEL S	GENERAL RESEARCH SUPPORT GRANT	S01FR 05662-01	NSS	26,226
NATHAN, DAVID A	SYNCHRONOUS PROGRAMMED VENTRICULAR PACING	R01HE 07109-06	CVA	28,074
SACKNER, MARVIN A	VOLUMES AND COMPLIANCE OF PULMONARY CIRCULATION	R01HE 10622-01S2	CVB	18,688
SACKNER, MARVIN A	VOLUMES AND COMPLIANCE OF PULMONARY CIRCULATION	R01HE 10622-02	CVB	12,948
SAMET, PHILIP	PHYSIOLOGIC BASES OF ELECTRONIC PACING	R01HE 09782-03	CVB	21,240
INSTITUTION TOTAL	6 195,958			
ST PETERSBURG				
FLORIDA PRESBYTERIAN COLLEGE				
FERGUSON, PHILIP R	UNIQUE NITROSO CARCINOSTATIC/CARCINOGENIC AGENTS	R01CA 10224-02	MCHB	8,225
INSTITUTION TOTAL	1 8,225			
SANFORD				
INDIVIDUAL GRANT				
LOVELL, WILLIAM V	MODIFIED LOVELL EYE MAGNET FOR NONMAGNETIC METALS	R01NB 04633-06	VIS	10,000
INSTITUTION TOTAL	1 10,000			
TALLAHASSEE				
FLORIDA STATE UNIVERSITY				
BAKER, HOWARD D	DICHROMATIC NEUTRAL LOCI IN PERIPHERAL NORMAL RETINAS	R01NB 07228-02	VIS	15,477
BEIDLER, LLOYD M	SENSORY BIOLOGY RESEARCH CENTER	P01NB 07468-01	NBPB	127,703
BEIDLER, LLOYD M	BASIS OF ODOR QUALITY DISCRIMINATION	R01NB 01083-12	CMS	24,475
DE TAR, DE LOS F	BIOPHYSICAL STUDIES OF SEQUENCE PEPTIDE POLYMERS	R01GM 12666-02	BBC	42,475
EASTON, DEXTER M	MOLECULAR BIOLOGY OF NERVE IMPULSES	R01NB 05734-02S1	NEUB	365
EASTON, DEXTER M	MOLECULAR BIOLOGY OF NERVE IMPULSES	R01NB 05734-03S1	NEUB	5,841
EMERSON, MERLE T	STRUCTURES OF BIOGENETICALLY ABNORMAL SESQUITERPENES	R01GM 12408-04	MCHA	18,180
FISHER, JAMES R	XANTHINE DEHYDROGENASE AND OXIDASE - HORMONAL CONTROL	R01HD 02579-03	MET	25,135
FRIEDEN, EARL	BIOCHEMISTRY OF AMPHIBIAN METAMORPHOSIS	R01HD 01236-13	MBY	60,672
FRIEDEN, EARL	COPPER ENZYMES AND PROTEINS AND COPPER ION CATALYSES	R01HE 08344-05	BIO	34,418
GREENBERG, MICHAEL J	PHARMACOLOGY OF MOLLUSCAN HEARTS	R01HE 09283-04	PHRA	29,155
HERZ, WERNER	STUDIES IN PHYTOCHEMISTRY	R01GM 05814-10	MCHB	60,913
KEIRS, RUSSELL J	BIOMEDICAL SCIENCES SUPPORT	S05FR 07020-03	NSS	69,656
KENSHALO, DANIEL R	PSYCHOPHYSICAL AND NEURAL RESPONSE TO THERMAL STIMULI	R01NB 02992-08	CMS	57,926
KROMHOUT, ROBERT A	NITROGEN N M R IN AMINO ACIDS	R01GM 13897-02	BBC	22,512
SCHWELER, JOHN E	FREE RADICAL AND REDOX REACTIONS OF IODINE COMPOUNDS	R01AM 10489-03	MCHA	27,085
LIPNER, HARRY	STUDIES OF THE PHYSIOLOGY OF OVULATION	R01HD 00814-04	REB	25,139
LOFTIN, HORACE	NORTH AMERICAN MIGRATORY BIRDS IN PANAMA	R01AI 06078-05	TMP	5,825
MANN, CHARLES K	ANODIC OXIDATION OF ALIPHATIC AMINES	R01GM 10064-06	MCHB	24,288
MASTERTON, R BRUCE	ANALYSIS OF SENSORY CORTEX	R01NB 07726-01	PHY	4,026
MASTERTON, R BRUCE	ANALYSIS OF SENSORY CORTEX	R01NB 07726-02	PHY	29,483
QUAGLIANO, JAMES V	STUDIES OF AMINO ACID, SIMPLE PROTEIN METAL COMPLEXES	R01AM 02734-10	BBCB	10,419
RHODES, WILLIAM C	THEORY OF ELECTRONIC INTERACTIONS HELICAL POLYMERS	R01GM 09202-06	BBCA	20,378
ROHTER, FRANK D	PRE-ADOLESCENT & ADOLESCENT POST EXERCISE BLOOD FLOWS	R01HE 11632-01	AFY	14,627
SCHWARTZ, MARTIN A	BIOGENETIC-TYPE SYNTHESIS OF AMARYLLIDACEAE ALKALOIDS	R01CA 10136-02	MCHB	17,532
VICKERS, THOMAS J	TRACE ELEMENT ANALYSIS IN BIOLOGICAL SAMPLES	R01GM 15996-01	MCHB	22,828
WALBORSKY, HARRY M	CYCLOPROPYL RADICALS-STUDIES IN ASYMMETRIC SYNTHESSES	R01CA 04065-10	MCHA	24,589
INSTITUTION TOTAL	27 821,122			
TAMPA				
FLORIDA STATE BOARD OF HEALTH				
BOND, JAMES O	ARBOVIRUS EPIDEMIOLOGY IN FLORIDA	R01AI 05504-06	VR	176,904
INSTITUTION TOTAL	1 176,904			
SOUTH FLORIDA UNIVERSITY OF				
CAUGHEY, WINSLOW S	ISOLATION, STRUCTURE, AND MODEL REACTIONS OF HEME A	R01HE 11807-01	BBCB	195,828
CORY, JOSEPH G	RIBONUCLEOTIDE REDUCTASE IN MAMMALIAN CELLS	R01CA 10380-01	MBC	22,106
WEISS, BURTON A	COMPARATIVE STUDY OF SONIC SENSITIVITY	R01NB 07459-02	EXP	10,502
INSTITUTION TOTAL	3 228,436			

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INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRG	DOLLARS
FLORIDA—(CON.)				
SOUTHWEST FLORIDA TUBERCULOSIS HOSPITAL				
DUNBAR, FRANK P	EXPERIMENTAL INFECTIONS WITH AIRBORNE MYCOBACTERIA	RO1AI 06070-03	8M	5,990
INSTITUTION TOTAL 1	5,990			
VERO BEACH				
FLORIDA STATE BOARD OF HEALTH				
PROVOST, MAURICE W	THE NATURAL HISTORY OF MOSQUITOES	P01AI 06587-04	TMP	273,820
INSTITUTION TOTAL 1	273,820			
STATE TOTAL 244	10,437,903			
GEORGIA				
ALBANY				
ALBANY STATE COLLEGE				
BLACK, BILLY C	FATTY ACID METABOLISM IN PENICILLIUM JAVANICUM	RO1HE 10022-03	MBC	15,351
INSTITUTION TOTAL 1	15,351			
ATHENS				
GEORGIA UNIVERSITY OF				
BALDWIN, JACK N	STUDIES OF STAPHYLOCOCCUS AUREUS BY TRANSDUCTION	RO1AI 08450-01	8M	22,685
BOWEN, JOHN M	DECAMETHONIUM AND NEUROMUSCULAR TRANSMISSION	RO1N8 05458-04	PHRA	9,346
BRADY, ULLMAN E, JR	MODES OF ACTION OF ORGANOPHOSPHORUS INSECTICIDES	RO1ES 00253-02	TOX	15,092
CASTER, WILLIAM O	BIOLOGICAL EVALUATION OF NUTRIENT REQUIREMENTS	RO1AM 08595-05	NTN	17,062
COSGROVE, WILLIAM B	MORPHOGENETIC MECHANISMS IN TRYPANOSOMATIDS	RO1AI 08509-01	TMP	23,338
EAGON, ROBERT G	SOME STUDIES ON PSEUDOMONAS AERUGINOSA	RO1AI 05156-06	BM	13,105
EDWARDS, HARDY M JR	LIPID NUTRITION OF AVES	RO1AM 06338-07	NTN	39,580
FOSTER, JOHN W	VIRUS-HELMINTH-VERTEBRATE INTERRELATIONSHIPS A MODEL	RO1AI 07746-02	TMP	19,892
GREENE, FRANK E	ROLE OF EPOXIDATION IN THE TOXICITY OF HEPTACHLOR	RO1GM 14694-02	TOX	20,603
HIMEL, CHESTER M	FLUORESCENCE IN ENZYME-INSECTICIDE INTERACTIONS	RO1ES 00207-02	TOX	29,303
HINTON, CLAUDE W	CHROMOSOME INSTABILITY IN DROSOPHILA MELANOGASTER	RO1GM 15877-13	GEN	9,988
HONIGBERG, IRWIN L	CYNARIN ANALOGS HYPOCHOLESTEROLEMIC ANABOLIC AGENTS	RO1HE 09933-02S1	MCHB	898
HONIGBERG, IRWIN L	CYNARIN ANALOGS HYPOCHOLESTEROLEMIC ANABOLIC AGENTS	RO1HE 09933-03	MCHB	25,490
KING, ROBERT B	ORGANOMETALLIC TRANSITION METAL FLUORINE COMPOUNDS	RO1GM 14664-02	MCHB	37,062
KNIGHT, KENNETH L	BIONOMICS AND BEHAVIOR OF AEDES VEXANS	RO1AI 07822-02	TMP	15,371
LEYDEN, DONALD E	ISOTOPE EFFECTS IN COMPOUNDS OF BIOLOGICAL INTEREST	RO1GM 13935-03	B8C8	119
LEYDEN, DONALD E	ISOTOPE EFFECTS IN COMPOUNDS OF BIOLOGICAL INTEREST	RO1GM 13935-03	B8C8	18,252
MC GHEE, R BARCLAY	BIOLOGY OF HAEMOSPORIDIIDEA AND TRYPANOSOMIDAE	RO1AI 00924-13	TMP	29,690
MC RORIE, ROBERT A	BIOMEDICAL SCIENCES SUPPORT	S05FR 07025-03	NSS	62,029
MENDICINO, JOSEPH F	MECHANISM OF BIOSYNTHESIS OF HETEROPOLYSACCHARIDES	RO1AI 08908-01	PC	30,638
MILLER, W J	EFFECTS OF ZINC-DEFICIENCY ON RUMINANTS	RO1AM 07367-05	NTN	38,207
MULLIGAN, B EDWARD	PHYSICAL BASES FOR BINAURAL IMPROVEMENT OF HEARING	RO1NB 07092-02	CMS	17,523
NEURAUER, LLOYD J	GENERAL RESEARCH SUPPORT GRANT	S01FR 05601-01	NSS	152,207
ODUM, EUGENE P	LIPID DEPOSITION	RO1HE 08294-04S1	MET	9,474
PECK, HARRY D, JR	OXIDATIVE PHOSPHORYLATION IN ANAEROBIC BACTERIA	RO1AM 10879-02	MBC	32,883
PELLETIER, S WILLIAM	CHEMISTRY OF ACONITUM AND DELPHINIUM ALKALOIDS	RO1GM 10921-06	MCHA	38,058
PELLETIER, S WILLIAM	CHEMISTRY OF THE SAPOGENINS OF SENEGA ROOT	RO1GM 10966-06	MCHA	16,224
STAMMER, CHARLES H	NEW PEPTIDE COUPLING AGENTS	RO1AM 11070-02	MCHB	14,720
WEATHERSBY, A BURNS	FACTORS OF SUSCEPTIBILITY OF MOSQUITOES TO MALARIA	RO1AI 05253-06	TMP	42,439
WILLIAMS, WILLIAM L	BIOCHEMICAL ASPECTS OF REPRODUCTION	RO1GM 10034-06	REB	11,577
INSTITUTION TOTAL 30	812,855			
ATLANTA				
EMORY UNIVERSITY				
BALENTINE, J DOUGLAS	PATHOLOGIC EFFECTS OF HYPERBARIC OXYGEN EXPOSURE	RO1NB 07545-01	PTHA	34,179
BORING, JOHN R, III	MUCOID PSEUDOMONAS AERUGINOSA IN CYSTIC FIBROSIS	RO1AI 08505-01	8M	19,455
BOURNE, GEOFFREY H	HISTOCHEMISTRY OF BLOOD VESSELS	RO1HE 04553-08S1	CVA	420
BOURNE, GEOFFREY H	HISTOCHEMISTRY OF BLOOD VESSELS	RO1HE 04553-09	CVA	25,220
CAMBELL, WALLACE, JR	STUDIES OF CORTISONE-INDUCED DYSTROPHY & OF PROTEINURIA	RO1AM 06805-07	PTHA	10,378
CAMPBELL, WALLACE G, JR	PATHOGENIC FACTORS OF NECROTIZING ARTERITIS	RO1HE 09552-03	PTHA	20,552
CORRIGAN, JAMES J, JR	PREVENTION OF INTRAVASCULAR CLOTTING	RO1HE 11246-02	HEM	10,703
DAVENPORT, RICHARD K, JR	EARLY EXPERIENCE INTELLECTUAL AND ADAPTIVE DEVELOPMENT	RO1HD 03720-01A1	EXP	31,783
FARRAR, WILLIAM E, JR	INTERACTIONS BETWEEN BACTERIA AND DIGESTIVE SYSTEM	RO1AI 06863-03	BM	22,746
FREDERICKSON, EVAN L	CARDIAC ELECTRO-MECHANICAL DISSOCIATION IN ANESTHESIA	RO1HE 10498-03	PHRA	16,354
GALAMBOS, JOHN T	PREVENTION OF HEPATITIS AFTER CARDIOVASCULAR SURGERY	RO1HE 10232-02	SRC	32,204
GOLDBERG, LEON I	HUMAN DRUG METABOLISM AND TOXICOLOGY	P11GM 14270-02S2	PTR	16,130
GOLDBERG, LEON I	CARDIOVASCULAR DRUGS	RO1HE 06491-07	PHRA	44,910
GOLDSMITH, DAVID J	MODEL SYSTEMS FOR BIOGENESIS OF STEROIDS AND TERPENES	RO1GM 11728-04S1	MCHA	218
GRAHAM, CHARLES E	ESTROGEN AND CARCINOGEN EFFECTS ON THE UTERINE CERVIX	RO1CA 10085-02	PTHB	14,310
GROTH, DONALD P	NUCLEIC ACID STUDIES IN CANCER CHEMOTHERAPY	RO1CA 03528-11	PHRB	28,398
HATCHER, CHARLES R, JR	PACEMAKER PROTECTION IN CORONARY ARTERY OCCLUSION	RO1HE 11371-02	CVA	27,079
HORN BROOK, KENT R	DRUG AND HORMONE EFFECTS ON CARBOHYDRATE METABOLISM	RO1AM 10270-03	MET	25,381
HUGULEY, CHARLES M	CHEMOTHERAPY OF NEOPLASTIC DISEASES	R10CA 03227-12	SRC	141,115

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INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRG	DOLLARS
GEORGIA—(CON.)				
HUGULEY, CHARLES M. JR	PYRIMIDINE AND PURINE METABOLISM IN MAN	R01CA 05733-07	PHRB	45,788
HUGULEY, CHARLES M. JR	CHEMOTHERAPY OF NEOPLASTIC DISEASES	R10CA 03227-11S2	SRC	11,585
INGRAM, ROLAND H. JR	PARADOXICAL AIRWAY RESPONSE TO BRONCHODILATOR THERAPY	R01HE 12002-01	CVB	30,052
JACKSON, RICHARD T	METABOLIC STUDIES CONCERNING NASAL PATENCY	R01AI 06094-05	CMS	36,919
KAYE, HERBERT	BASIC CORRELATES OF NEONATAL SUCKING BEHAVIOR	R01HO 02458-02	DBR	39,254
KIBLER, ROBERT F	LYMPHOCYTE STUDIES IN DEMYELINATING DISEASES	R01NB 06469-03	NEUA	14,093
KOSTYO, JACK L	ANABOLIC ACTIONS OF ADRENOPHOPHYSICAL HORMONES	R01AM 12782-01	END	9,783
KUCK, JOHN F. JR	LENS METABOLISM IN NORMAL AND PRE-CATARACTOUS STATES	R01NB 04866-05	VIS	35,901
LESTER, CHARLES T	BIOMEDICAL SCIENCES SUPPORT	S05FR 07023-03	NSS	46,635
LYON, JOHN B. JR	ROLE OF VITAMIN B6 IN METABOLISM	R01AM 03524-09	NTN	20,623
MANDELL, LEON	NMR SPECTROSCOPY AND BIOLOGICALLY IMPORTANT COMPOUNDS	R01GM 10848-11	BBCB	121,043
MANNING, JOHN W	CENTRAL INTEGRATION OF CARDIOVASCULAR ACTIVITY	R01NB 02645-08	PHY	36,808
MAYER, STEVEN E	THE BIOCHEMISTRY OF THE SYMPATHETIC NERVOUS SYSTEM	R01HE 04626-09	PHRA	32,310
MC CORQUODALE, D JAMES	THE TRANSFER OF BIOLOGICAL INFORMATION	R01GM 06298-09S1	PC	458
MC PHEDRAN, ALEXANDER M	NEUROMUSCULAR FATIGUE DURING TETANIC STIMULATION	R01NB 07847-01	NEUB	11,319
MORAN, NEIL C	AUTONOMIC AND CARDIOVASCULAR PHARMACOLOGY	R01HE 02953-11	PHRA	24,300
MOULTON, GEORGE H	GENERAL RESEARCH SUPPORT GRANT	S01FR 05308-07	NSS	39,868
MYERS, ORIE E. JR	SUPPORT OF THE YERKES REGIONAL PRIMATE RESEARCH CENTER	P06FR 00165-08	PME	1,149,760
O STEEN, W KEITH	HISTOCHEMISTRY OF NORMAL AND DYSTROPHIC MYOGENESIS	R01NB 08136-01	PTHA	12,430
PEIRCE, EDMUND C. II	THE PHYSIOLOGY OF PERFUSION HYPOTHERMIA	R01HE 09253-04	SGYA	57,305
PERKINS, CHARLES C. JR	REINFORCING STIMULI	R01HD 00906-08	EP	12,923
POPOVIC, VOJIN P	COMPARATIVE STUDY OF DEEP HYPOTHERMIA AND HIBERNATION	R01GM 09652-07	PHY	32,628
PREEDY, JOHN R	DETERMINATION OF ESTROGENS IN URINE AND PLASMA	R01AM 02221-09S1	END	746
PREEDY, JOHN R K	DETERMINATION OF ESTROGENS IN URINE AND PLASMA	R01AM 02221-10	END	75,733
RICHARDSON, ARTHUR P	GENERAL CLINICAL RESEARCH CENTER	M01FR 00039-08	CLR	254,373
RICHARDSON, ARTHUR P	GENERAL RESEARCH SUPPORT GRANT	S01FR 05364-07	NSS	251,159
SANTOS-BUCH, CHARLES A	RELATION OF PLASMA PROTEIN CONSTITUENTS TO ARTERITIS	R01HE 08012-06	HEM	11,259
SCHLANT, ROBERT C	COOPERATIVE STUDY OF DRUGS AND CORONARY HEART DISEASE	R01HE 10705-03	SRC	106,786
SCHRODER, J SPALDING	ESOPHAGEAL MOTILITY AND ANGINA PECTORIS	R01AM 09682-03	GM	2,515
SHAPIRA, RAYMOND	EFFECTS OF RADIATIONS ON PROTEINS	R01AM 05851-06	BIO	15,991
SHAPIRO, MARTIN M	EFFECTIVE REINFORCEMENT AND CLASSICAL CONDITIONING	R01HD 01333-05	EXP	19,350
SUTIN, JEROME	PALLIDAL INHIBITION OF BRAIN STEM ACTIVITY	R01NB 06948-03	NEUA	45,680
SYMBAS, PANAGIOTIS N	EFFECT OF PROLONGED OBSTRUCTION OF CAROIC LYMPHATICS	R01HE 09535-04	SGYA	14,864
TAGER, MORRIS	CHEMISTRY & ENZYMOLOGY OF STAPHYLOCOAGULASE ACTIVITY	R01HE 01895-14	ALY	29,123
TREADWELL, PERRY E	THE MECHANISM OF ANAPHYLACTIC SHOCK IN THE MOUSE	R01AM 06764-05S1	IMB	361
TREADWELL, PERRY E	THE MECHANISM OF ANAPHYLACTIC SHOCK IN THE MOUSE	R01AM 06764-06	IMB	8,296
TROWBRIDGE, C G	SPECTROSCOPIC CHARACTERIZATION OF ENZYMIC COMPLEXES	R01GM 13201-03	BIO	15,480
TURNER, MALCOLM E. JR	THE EMORY COMPUTING CENTER	P07FR 00231-04	COM	283,176
TUTTLE, ELBERT P. JR	COMPUTER ANALYSIS OF RENAL THERMAL WASHOUT CURVES	R01HE 11788-01	CVA	10,367
TUTTLE, ELBERT P. JR	COOPERATIVE STUDY ANTIHYPERTENSIVE TREATMENT AND STROKE	R01NB 06934-02	SSS	17,439
UNDERWOOD, ARTHUR L. JR	ELECTROCHEMICAL STUDIES OF BIOLOGICAL COMPOUNDS	R01GM 08282-07	BBCB	23,050
WAITZMAN, MORTON B	METABOLIC SYSTEMS IN AQUEOUS HUMOR DYNAMICS	R01NB 04243-06	VIS	48,318
WAITZMAN, MORTON B	PARASYMPATHOMIMETIC PROPERTIES OF OCULAR EXTRACTS	R01NB 04319-07	VIS	19,574
WATKINS, W LORRAINE	SOUTHWEST CANCER CHEMOTHERAPY STUDY GROUP	R10CA 06226-06S1	SRC	11,992
WILHELMI, ALFRED E	PRODUCTION OF PITUITARY HORMONES FOR USE IN RESEARCH	R01AM 03598-09	ENO	161,810
WILHELMI, ALFRED E	STUDIES ON ANTERIOR PITUITARY HORMONES	R01HD 01231-18	END	49,724
INSTITUTION TOTAL	65	3,820,486		
GEORGIA INSTITUTE OF TECHNOLOGY				
CAINE, DRURY S. III	PHOTOCHEMICAL SYNTHESIS OF HYDROAZULENES	R01GM 15044-02	MCHA	15,690
DYER, JOHN R	THE BIOSYNTHESIS OF VIOMYCIN	R01AI 07230-03	MCHB	29,540
FETNER, ROBERT H	BIOMEDICAL SCIENCES SUPPORT	S05FR 07024-03	NSS	50,335
MOODY, WILLIS E	DIFFUSION AND KINETICS OF DENTAL ENAMEL	R01DE 01972-05	DEN	35,458
SIKORSKI, MATHEW E	P-N JUNCTION TRANSDUCERS IN CARDIOVASCULAR RESEARCH	R01HE 11317-02	CVB	25,074
YOUNG, ROBERT A	NEUTRON DIFFRACTION STUDIES OF TOOTH COMPONENTS	R01DE 01912-06	SSS	109,870
ZALKOW, LEON H	SESQUITERPENOID STUDIES	R01AM 10099-03	MCHA	12,664
ZALKOW, LEON H	THE TOXIC PRINCIPLE OF APLOPAPPUS HETEROPHYLLUS BLAKE	R01GM 13654-03	MCHB	15,306
INSTITUTION TOTAL	8	293,937		
AUGUSTA				
GEORGIA MEDICAL COLLEGE OF				
ABDEL-LATIF, ATA A	STUDIES ON SUBCELLULAR FRACTIONS OF DEVELOPING BRAIN	R01NB 07876-01	MET	10,089
ABDEL-LATIF, ATA A	STUDIES ON SUBCELLULAR FRACTIONS OF DEVELOPING BRAIN	R01NB 07876-02	MET	35,119
AHLQUIST, R P	GENERAL RESEARCH SUPPORT GRANT	S01FR 05365-07	NSS	172,747
AHLQUIST, RAYMOND P	GENERAL CLINICAL RESEARCH CENTER	M01FR 00061-07	CLR	158,594
ALLEN/LANE H	MODIFICATION OF ASCITES IN SEALED PERITONEAL CAVITIES	R01HE 09468-04	CVB	13,919
ALLEN, MARSHALL B. JR	ANEURYSMS AND ACUTE SUBARACHNOID HEMORRHAGE	R01NB 04345-06	SSS	5,863
ALLEN, MARSHALL B. JR	ELECTROPHYSIOLOGICAL STUDIES IN DIABETIC NEUROPATHY	R01NB 07239-01	NEUA	25,324
BEHAL, FRANCIS J	BASIC AMINOPEPTIDASE STUDIES RELATED TO CANCER	R01CA 06389-05S1	PC	123
BEHAL, FRANCIS J	BASIC AMINOPEPTIDASE STUDIES RELATED TO CANCER	R01CA 06389-06	PC	36,053
BOHLER, CLORINDA S-S	CARDIAC OUTPUT THROUGHOUT PREGNANCY-LABOR-PUERPERIUM	R01HE 10158-02	HED	20,997
BOLLET, ALFRED J	METABOLIC ASPECTS OF CONNECTIVE TISSUE DISEASE	R01AM 11328-02	GMA	50,498
BOLLET, ALFRED J	EXPERIMENTAL CLINICAL INVESTIGATION PROGRAM IN RA	R01AM 12047-02	SSS	32,576

TABLE 2—RESEARCH GRANTS, BY AREA, INSTITUTION, AND PRINCIPAL INVESTIGATOR

INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRG	DOLLARS
GEORGIA—(CON.)				
BROWN, AUDREY K	FETAL AND NEONATAL DETOXIFICATION MECHANISMS	RO1HD 02800-02	HED	29,493
BROWN, WALTER J, JR	CO-OP STUDY ANTIHYPERTENSIVE TRTMT & STROKE RECURRENCE	RO1NB 06933-02	SSS	25,454
BYRD, JEROME R	INHERITED CYTOGENETIC DEFECTS IN SPONTANEOUS ABORTION	RO1HD 03324-01	GEN	25,279
CARR, ALBERT A	EFFECT OF MEQUILLIN ON RENAL PHYSIOLOGY	RO1HE 11913-01	CVA	14,641
CHANOLER, ARTHUR B	NEW TECHNIQUE FOR IN VITRO PRODUCTION OF THROMBI	RO1HE 03973-10	PTHA	21,520
CROUNSE, ROBERT G	BIOCHEMISTRY OF KERATINIZATION	RO1AM 12131-01S1	GMA	6,171
CROUNSE, ROBERT G	KERATINIZATION AND CUTANEOUS DISEASE	RO1AM 12131-02	GMA	46,420
DOW, PHILIP	PHYSIOLOGICAL AND CLINICAL CARDIOVASCULAR STUDIES	RO1HE 00240-18	PHY	10,939
ELLISON, ROBERT G	EFFECT OF HYPOTHERMIA UPON MYOCARDIAL METABOLISM	RO1HE 05432-08	SGYA	34,734
ELLISON, ROBERT G	ELECTROLYTE METABOLISM DURING CARDIOPULMONARY BYPASS	RO1HE 09083-03S1	SGYA	5,323
FRANK, MARTIN J	VENTRICULAR PERFORMANCE AND MYOCARDIAL METABOLISM	RO1HE 11670-01	CVB	26,363
HORAN, LEO G	LIMITS OF INFORMATION IN THE BODY SURFACE ECG	RO1HE 11667-01S1	CVA	6,608
HUISMAN, TITUS H	INHOMOGENEITY OF HEMOGLOBIN AND MYOGLOBIN TYPES	RO1HE 05168-09	HEM	58,738
HUMPHRIES, ARTHUR L, JR	STORAGE OF KIDNEY BY HYPOTHERMIA AND PERFUSION	RO1GM 08472-08	SGYB	22,192
MAHESH, VIRENDRA B	BIOSYNTHESIS OF STEROIDS IN THE POLYCYSTIC OVARY	RO1AM 04429-09	END	65,244
MARTIN, CHESTER B, JR	UTEROPLACENTAL BLOOD FLOW DURING PREGNANCY IN PRIMATES	RO1HD 02036-03	HED	11,506
MC DONALD, THOMAS F	FINE STRUCTURE OF ABNORMAL NEUROGENESIS	RO1HD 01922-02	NEUA	30,163
MC PHERSON, JAMES C, JR	CHARACTERIZATION OF THE HYPERLIPEMIA OF TUNG OIL	RO1HE 11782-01	NTN	8,696
MORSE, RUSSELL W	SINGLE NEURON ANALYSIS OF SOMATOSENSORY AREA II	RO1NB 07184-01A1	NEUA	21,697
NELSON, GEORGE H	PLACENTAL AND SERUM LIPIDS IN ABNORMAL OBSTETRICS	RO1HD 00438-06	HED	20,825
O BRIEN, LARRY J	MECHANICAL PROPERTIES OF MYOCARDIUM	RO1HE 10096-03	PHY	14,585
PUCHTLER, HOLDE	HISTOCHEMISTRY OF EARLY ARTERIOSCLEROTIC LESIONS	RO1HE 12147-01	PTHA	30,049
REICHARD, SHERWOOD M	RELATION OF THE RES TO A TRAUMA PROTECTING FACTOR	RO1HE 08982-05	PTHA	34,097
REMINGTON, JOHN W	GENESIS OF AORTIC PRESSURE PULSE	RO1HE 10602-02	CVA	12,021
SCOGGIN, WILLIAM A	AMNIOCHORIONIC MEMBRANE DYNAMICS	RO1HD 02786-02	HED	15,613
SINGAL, SAM A	METABOLISM IN NUTRITIONAL FATTY LIVERS	RO1AM 05811-07	NTN	27,190
SMITH, J GRAHAM, JR	ACID GLYCOSAMINOGLYCANS OF KERATIN	RO1AM 12062-02	MET	55,990
SMITH, LINDA L	THE DISSOCIATION OF NORMAL AND ABNORMAL HEMOGLOBINS	RO1AM 10509-03	HEM	15,204
TALiedo, OSCAR E	VASCULAR REACTIVITY OF NORMAL AND TOXEMIC PREGNANCY	RO1HE 09289-03S1	GMB	3,718
WRIGHT, CLAUDE S	IMMUNOASSAY AND PURIFICATION OF ERYTHROPOIETIN	RO1HE 10591-06	HEM	46,391
WRIGHT, CLAUDE S	PARTICIPATION IN CCNSC CHEMOTHERAPY STUDY SOUTHEAST	R10CA 06807-06	SRC	15,974
INSTITUTION TOTAL	43 1,324,740			
CLAXTON				
EVANS COUNTY HEALTH DEPARTMENT				
HAMES, CURTIS G	EPIDEMIOLOGY OF ATHEROSCLEROSIS IN EVANS CO, GEORGIA	RO1HE 03341-11A1S1	EDC	6,500
HAMES, CURTIS G	EPIDEMIOLOGY OF ATHEROSCLEROSIS IN EVANS CO GEORGIA	RO1HE 03341-12	EDC	79,550
INSTITUTION TOTAL	2 86,050			
STATE TOTAL	149 6,353,419			
HAWAII				
HONOLULU				
INDIVIDUAL GRANT				
JIM, ROBERT T	SURVEY AND STUDY OF HEMOGLOBIN TYPES IN HAWAII	RO1HE 03480-10	HEM	800
INSTITUTION TOTAL	1 800			
BERNICE P. BISHOP MUSEUM				
FORSTER, RAYMOND R	THE ARANEAE OF THE NEW ZEALAND REGION	RO1GM 11950-05	TMP	3,000
GRESSITT, J LINSLEY	SOUTH PACIFIC INSECTS OF PUBLIC HEALTH IMPORTANCE	RO1AI 01723-11	TMP	104,700
WILSON, NIXON	TAXONOMY AND BIOLOGY OF THE PARASITIC GAMASID MITES	RO1AI 08229-01	TMP	25,520
WILSON, NIXON A	TROMBICULIDAE ACARINA PROSTIGMATA OF NEW GUINEA	RO1AI 07575-02	TMP	27,590
WILSON, NIXON A	TICKS (ACARINA METASTIGMATA) OF NEW GUINEA	RO1AI 07576-02	TMP	14,685
INSTITUTION TOTAL	5 175,495			
HAWAII DEPARTMENT OF HEALTH				
WHEELER, CHARLES M	STUDIES ON THE ECOLOGY OF PLAGUE	RO1AI 02886-09	TMP	31,551
INSTITUTION TOTAL	1 31,551			
HAWAII UNIVERSITY OF				
ALICATA, JOSEPH E	LUNG PARASITE DISTRIBUTION AND HOST RELATIONSHIPS	RO1NB 04965-05	TMP	67,776
ARAGAKI, MINORU	LIGHT AND TEMPERATURE EFFECTS ON FUNGAL SPORULATION	RO1AI 06717-03	BM	14,647
ARAKAKI, DAVID T	CYTOGENETICS OF EARLY FETAL DEATHS	RO1HD 01133-04	HED	23,428
ARNOLD, JOHN M	CEPHALOPOD LENS DEVELOPMENT	RO1HD 02688-02	VIS	24,704
ASHTON, GEOFFREY C	FACTORS MAINTAINING BIOCHEMICAL POLYMORPHISMS	RO1HD 01831-03S1	GEN	7,641
ASHTON, GEOFFREY C	FACTORS MAINTAINING BIOCHEMICAL POLYMORPHISMS	RO1HD 01831-04	GEN	29,124
BARBER, GEORGE A	METABOLISM OF 6-DEOXYHEXOSES	RO1AM 10662-03	PC	15,692
BENEDICT, ALBERT A	CELLULAR IMMUNITY IN PSITTACOSIS AND VIRUS INFECTIONS	RO1AI 05660-04S1	VR	180
BENEDICT, ALBERT A	CELLULAR IMMUNITY IN PSITTACOSIS AND VIRUS INFECTIONS	RO1AI 05660-05	VR	18,510
CHUNG, CHIN S	POPULATION STUDIES OF ORAL DISEASES IN HAWAII	RO1DE 02646-02	EDC	42,713
CROWELL, DAVID H	INFANT PSYCHOPHYSIOLOGICAL SYSTEMS	RO1HD 00859-06	PCR	64,939
CUTTING, WINDSOR C	GENERAL RESEARCH SUPPORT GRANT	S01FR 05599-02	NSS	246,844
DIAMOND, MILTON	INDUCED BEHAVIORAL AND GENITAL MASCULINIZATION	RO1HD 03394-01	REB	31,585
FURUSAWA, EIICHI	STUDIES OF NATURAL PRODUCTS WITH ANTIVIRAL ACTIVITY	RO1AI 07441-02	PHRB	27,242

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INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRG	DOLLARS
HAWAII—(CON.)				
GIBBONS, IAN R	STRUCTURAL BASIS OF MOTILITY IN CILIA AND FLAGELLA	RO1GM 15090-01	MBY	126,565
GORTER, WYITZE	BIOMEDICAL SCIENCES SUPPORT	S05FR 07026-03	NSS	63,278
HALL, JOHN B	THE ROLE OF NUCLEIC ACIDS IN POLYPEPTIDE SYNTHESIS	RO1GM 13312-03	PC	52,572
HARDY, D ELMO	EVOLUTION AND GENETICS OF HAWAIIAN DROSOPHILIDAE	RO1GM 10640-06	GEN	82,500
HERZBERG, MENDEL	IMMUNE RESPONSE TO LIVING VACCINES	RO1AI 08041-02	ALY	35,176
HOKAMA, YOSHITSUGI	CATALASE C-REACTIVE PROTEIN BIOCHEMISTRY IN CANCER	RO1CA 10671-01	PTHB	44,736
HUNT, JOHN A	STUDIES ON THE TRANSFER OF GENETIC INFORMATION	RO1AM 09183-04	GEN	36,220
KANE, ROBERT E	STUDIES ON THE MITOTIC APPARATUS	RO1GM 14363-02S1	MBY	46,325
KANE, ROBERT E	STUDIES ON THE MITOTIC APPARATUS	RO1GM 14363-03	MBY	17,169
KIEFER, EDGAR F	PI CHELATE BONDING	RO1GM 14533-02	BBCB	31,634
LICHTON, IRA J	ENDOCRINE CONTROL OF FLUIDS IN PREGNANCY	RO1HE 07733-06	HEO	12,068
LOH, PHILIP C	DNA RNA AND PROTEIN SYNTHESIS IN VIRUS INFECTED CELLS	RO1AI 04685-07	VR	23,710
MANDEL, MORTON	MECHANISM OF INFECTION BY TEMPERATE PHAGE DNA	RO1AI 07919-02	VR	22,969
MATSUMOTO, HIROMU	BIOCHEMISTRY AND HISTOPATHOLOGY OF CYCASIN TOXICITY	RO1NB 03909-07	TOX	13,919
MC KAY, ROBERT H	FLUORESCENCE STUDIES OF ENZYME STRUCTURE AND FUNCTION	RO1GM 11682-05	PC	36,606
MORTON, N E	A RESEARCH PROGRAM IN POPULATION GENETICS	PO1GM 15421-01	GMP	319,606
MORTON, NEWTON E	CRITICAL TESTS OF GENETIC HYPOTHESES IN MAN	RO1GM 15118-02	GEN	23,673
MOWER, HOWARD F	STUDIES OF LOW MOLECULAR WEIGHT REDOX PROTEINS	RO1AM 09327-04	BIO	32,631
MOWER, HOWARD F	STUDIES OF HYDROGENASE ENZYMES	RO1AM 11444-02	MCB	27,566
NISHIMURA, EDWIN T	CATALASE ISOZYMES IN NORMAL AND NEOPLASTIC TISSUES	RO1CA 10130-03	PTHB	55,041
NORTON, TED R	NATURAL PRODUCTS FROM THE PACIFIC	RO1GM 15198-01	SSS	262,298
NUGENT, CHARLES A, JR	COMPETITIVE PROTEIN BINDING IN STEROID ANALYSES	RO1AM 11455-01	END	49,745
PIETTE, LAWRENCE H	ESR STUDIES OF BIOLOGICAL FREE RADICAL MECHANISMS	RO1CA 10977-04	BBCB	38,271
ROGERS, TERENCE A	PACIFIC BIOMEDICAL RESEARCH	PO1GM 09228-07	GMP	81,324
SKINSNES, OLAF K	DEBILITATION OF BIOLOGICAL DEFENSE IN LEPROSY	RO1AI 08644-01	BM	63,811
SKINSNES, OLAF K	PATHOGENESIS OF OSSEOUS LESIONS IN LEPROSY	RO1AI 08645-01	PTHA	39,999
STEFFAN, WALLACE A	MOSQUITOES OF THE NEW GUINEA AREA	RO1AI 07917-02	TMP	44,178
VON BEKESY, GEORG	SENSORY PROCESSES	PO1NB 06890-02	NBP	65,191
WAXMAN, SORRELL H	CYTOGENETICS OF HABITUAL ABORTORS	RO1HD 02159-03	GEN	21,275
WINNICK, THEODORE	BIOGENESIS OF ANTERIOR PITUITARY HORMONES	RO1GM 09335-06S1	PC	10,043
WRATHALL, JAY W	METAL COMPLEXES OF THIOAMINO ACIDS	RO1GM 13444-03	MCHB	15,235
YANAGIMACHI, RYUZO	STUDIES ON IN VITRO FERTILIZATION OF RODENT EGGS	RO1HD 03402-01	REB	34,426
YOUNG, FRANKLIN	BIOCHEMICAL STUDIES OF ATHEROSCLEROSIS	RO1HE 11484-01	NTN	37,903
INSTITUTION TOTAL	47	2,482,688		
STRAUB MEDICAL RESEARCH INSTITUTE OF HAWAII				
GILBERT, FRED I, JR	COOPERATIVE STUDY OF DRUGS AND CORONARY HEART DISEASE	RO1HE 11458-02	SRC	52,649
INSTITUTION TOTAL	1	52,649		
STATE TOTAL	55	2,743,183		
ILLINOIS				
CARBONDALE				
SOUTHERN ILLINOIS UNIVERSITY				
ANDERSON, PAUL M	ALLOSTERIC CONTROL OF CARBAMYL PHOSPHATE SYNTHETASE	RO1AM 11443-01	BIO	27,159
DARLING, STEPHEN D	STEREOSPECIFIC SYNTHESIS VIA METAL-AMMONIA REDUCTIONS	RO1GM 15955-01	MCHB	16,652
HADLER, HERBERT I	CARCINOGENIC POLYNUCLEAR HYDROCARBONS	RO1CA 10759-01	PTHB	72,311
LIT, ALFRED	EFFECTS OF ILLUMINATION ON BINOCULAR SPACE PERCEPTION	RO1NB 07617-06	NP	51,150
INSTITUTION TOTAL	4	167,272		
CHAMPAIGN				
INTERSCIENCE RESEARCH INSTITUTE				
FRY, WILLIAM J	VISUALIZATION OF TISSUE STRUCTURES BY ULTRASOUND	RO1CA 07043-05	SSS	136,862
FRY, WILLIAM J	VENTRICLE SHAPE AND VOLUME VISUALIZED BY ULTRASOUND	RO1HE 12144-01	SSS	58,208
INSTITUTION TOTAL	2	195,070		
CHICAGO				
AMERICAN DENTAL ASSOCIATION				
BOWEN, RAFAEL L	DEVELOPMENT OF AN ADHESIVE RESTORATIVE MATERIAL	RO1DE 02494-02	DEN	29,858
BROWN, WALTER E	CRYSTAL CHEMISTRY OF MINERALIZED TISSUES	RO1DE 00572-09	DEN	40,195
BROWN, WALTER E	SOLUBILITIES OF CALCIUM PHOSPHATES	RO1DE 01819-05S1	DEN	3,125
BROWN, WALTER E	SOLUBILITIES OF CALCIUM PHOSPHATES	RO1DE 01819-06	DEN	15,274
DOTY, J ROY	CONFERENCE ON CLINICAL TESTING OF CARIOSTATIC AGENTS	R13DH 00120-01S1	DEN	21,160
HEFFERREN, JOHN J	LUMINESCENCE OF CALCIFIED TISSUE	RO1DE 02225-04	DEN	54,240
HENDERSHOT, LELAND C	COMPREHENSIVE ABSTRACT SERVICE FOR DENTAL RESEARCHERS	RO1DE 02356-02S1	BCM	2,288
HENDERSHOT, LELAND C	COMPREHENSIVE ABSTRACT SERVICE FOR DENTAL RESEARCHERS	RO1DE 02356-03	BCM	31,138
HENDERSHOT, LELAND C	COMPREHENSIVE ABSTRACT SERVICE FOR DENTAL RESEARCHERS	RO1DH 00092-03	BCM	10,888
HENDERSHOT, LELAND C	COMPREHENSIVE ABSTRACT SERVICE FOR DENTAL RESEARCHERS	RO1DM 00558-01	BCM	24,927
LYON, HARVEY W	DENTAL RESEARCH INFORMATION CENTER	RO1DE 02448-03	SSS	41,085
MORENO, EDGARD C	SOLUBILITY AND DIFFUSION OF CALCIUM PHOSPHATES	RO1DE 02659-02	DEN	43,441
PAFFENBARGER, GEORGE C	RHEOLOGICAL STUDY OF PLASTIC IMPRESSION MATERIALS	RO1DE 01659-04S1	DEN	725
PAFFENBARGER, GEORGE C	LABORATORY AND CLINICAL RESEARCH ON DENTAL MATERIALS	RO1DE 02742-01	OEN	22,266
STANFORD, JOHN W	FORMATION AND COMPOSITION OF DENTAL CALCULUS	RO1DE 02475-02	DEN	58,256

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INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRG	DOLLARS
ILLINOIS—(CON.)				
WATERSTRAT, RICHARD M	CONSTITUTION DIAGRAMS FOR ALLOYS OF THE NOBLE METALS	ROI0E 02455-02	DEN	19,050
INSTITUTION TOTAL 16	417,916			
AMERICAN MEDICAL ASSOCIATION				
CRAWFORD, SUSAN	STATISTICAL SURVEY OF U S HEALTH SCIENCE LIBRARIES	ROI1M 00641-01	MT	16,777
INSTITUTION TOTAL 1	16,777			
CHICAGO BOARD OF HEALTH				
STAMLER, JEREMIAH	EPIDEMIOLOGY OF HYPERTENSION & ATHEROSCLEROSIS	ROI1E 09426-04	SRC	205,601
INSTITUTION TOTAL 1	205,601			
CHICAGO COLLEGE OF OSTEOPATHY				
MELCHIOR, JACKLYN B	GENERAL RESEARCH SUPPORT GRANT	SO1FR 05436-07	NSS	31,855
INSTITUTION TOTAL 1	31,855			
CHICAGO UNIVERSITY OF				
ARCHER, FRANCIS L	EXTRACELLULAR SUBSTANCES IN TUMOR DIFFERENTIATION	ROI1CA 06981-05S1	PTHB	4,430
BAKER, WILLIAM K	GENETIC CONTROL OF DIFFERENTIAL CELL FUNTION	ROI1GM 07428-07S1	GEN	1,871
BAKER, WILLIAM K	GENETIC CONTROL OF DIFFERENTIAL CELL FUNCTION	ROI1GM 07428-08	GEN	29,270
BARCLAY, WILLIAM R	MYCOBACTERIUM LEPRAE IN RABBIT EAR CHAMBERS	R22AI 07480-02	SSS	14,625
BEEM, MARC O	VIRUSES ASSOCIATED WITH ACUTE RESPIRATORY DISEASES	ROI1AI 03292-09	VR	65,280
BEEM, MARC O	INVESTIGATIONS OF ACUTE MINOR ILLNESSES IN CHILDREN	ROI1HD 00289-11	VR	70,112
BESIC, FRANK C	INFRARED MICROSCOPY OF CARIOUS AND HYPOCALCIFIED ENAMEL	ROI1DE 02348-02S1	DEN	4,195
BLOOM, WILLIAM	ULTRASTRUCTURE OF MITOTIC CELLS	ROI1GM 15878-11	MBY	47,728
BURKS, JAMES L	AN ELECTRONIC DATA-PROCESSING SYSTEM FOR MATERNITY CARE	ROI1HD 03432-01	COM	52,600
BURROWS, BENJAMIN	PROGNOSIS OF CHRONIC OBSTRUCTIVE PULMONARY EMPHYSEMA	ROI1HE 04109-09	CVA	37,433
BURROWS, WILLIAM	EFFECTIVE IMMUNITY TO CHOLERA	ROI1AI 02310-10	ALY	36,660
BURROWS, WILLIAM	TOXIC PRODUCTS OF THE CHOLERA VIBRIO	R22AI 07624-02	SSS	77,990
BUTLER, ROBERT A	ELECTROPHYSIOLOGY OF THE AUDITORY SYSTEM	ROI1NB 03815-06	CMS	3,850
CARSON, PAUL E	CELL METABOLISM, SUSCEPTIBILITY TO INJURY AND DISEASE	ROI1HE 06078-07	HEM	49,781
CHIANG, KWEN-SHENG	DNA REPLICATION & GENETICS OF CHLAMYDOMONAS REINHARDI	ROI1GM 15114-02	GEN	31,260
CHILDERS, RODERICK W	PROPERTIES OF EMERGENT SUBSIDIARY CARDIAC PACEMAKERS	ROI1HE 11326-02	CVB	34,398
DAHLBERG, ALBERT A	DENTAL MORPHOLOGICAL VARIATION IN POPULATIONS	ROI1DE 01874-05S1	DEN	5,153
DE BRUYN, PETER P	LEUKOPOIETIC MECHANISMS	ROI1CA 05493-08	HEM	55,920
DEBUS, ALLEN G	THE EVOLUTION OF CHEMISTRY IN THE SERVICE OF MEDICINE	ROI1M 00046-06	HLS	11,877
DORFMAN, ALBERT	GENERAL CLINICAL RESEARCH CENTER-CHILDREN	MO1FR 00305-02	CLR	103,235
DORFMAN, ALBERT	BIOCHEMISTRY OF CONNECTIVE TISSUES	PO1AM 05996-07	AMP	251,028
DU BOIS, KENNETH P	INTERACTION OF PESTICIDES, DRUGS AND OTHER CHEMICALS	ROI1ES 00109-03	PHRA	53,639
EATON, PHILIP E	REACTIVE STATES OF PHOTOEXCITED UNSATURATED KETONES	ROI1GM 13451-03	MCHB	38,636
EISENMAN, GEORGE	MECHANISMS OF MEMBRANE PERMEATION BY IONS	ROI1GM 14404-02	PHY	52,569
EPSTEIN, WOLFGANG	REGULATORY MECHANISMS IN E COLI	ROI1GM 15766-01	MBC	21,084
EVANS, AUDREY E	CHEMOTHERAPY OF LEUKEMIA IN CHILDREN	ROI1CA 01300-19	SRC	15,062
FARKAS, TIBOR G	MECHANISM OF DEVELOPMENT OF DIABETIC CATARACTS	ROI1AM 06966-07	VIS	35,436
FERGUSON, DONALD J	PHYSIOLOGY OF GASTRIC SECRETION AND PEPTIC ULCER	ROI1AM 03247-10	GMA	36,230
FERNANDEZ-MORAN, HUMBERTO	MOLECULAR ORGANIZATION OF CELL MEMBRANES & DERIVATIVES	PO1GM 13243-03S1	GMP	67,170
FERNANDEZ-MORAN, HUMBERTO	MOLECULAR ORGANIZATION OF CELL MEMBRANES & DERIVATIVES	PO1GM 13243-04	GMP	193,644
FERNANDEZ, CESAR	ALTERATIONS OF COCHLEAR POTENTIALS	ROI1NB 00682-14	CMS	26,949
FERNANDEZ, CESAR	VESTIBULAR SYSTEM CLINICAL AND EXPERIMENTAL	ROI1NB 01330-12	CMS	33,096
FITCH, FRANK W	ANTIBODY FORMATION BY LYMPHOID CELLS	ROI1AI 04197-06S1	ALY	64
FITCH, FRANK W	ANTIBODY FORMATION BY LYMPHOID CELLS	ROI1AI 04197-07	ALY	25,077
FLEISCHER, EVERLY B	PHYSICAL CHEMICAL STUDIES OF PORPHYRINS	ROI1AM 05785-07	BBC	39,120
FORLAND, MARVIN	HORMONAL EFFECTS ON RENAL EXCRETORY FUNCTION	ROI1AM 11026-02	GMB	26,684
FOX, C FRED	STUOIES ON MEMBRANE TRANSPORT	ROI1AM 10987-02	PC	32,861
FOX, EUGENE N	THE CHEMISTRY AND IMMUNOLOGY OF STREPTOCOCCAL ANTIGENS	ROI1AI 04342-07	MBC	32,708
FOZZARD, HARRY A	MECHANISM OF THE HEART BEAT	ROI1HE 11665-02	PHY	35,612
FRIED, JOSEF	SYNTHESIS OF PROSTAGLANDINS AND PROSTAGLANDIN ANALOGS	ROI1AM 11499-02	MCHB	34,719
FRIED, JOSEF	CHEMISTRY OF STEROIDS AND ANITUMOR ANTIBIOTICS	ROI1CA 07445-05	MCHB	66,154
FRIEDMANN, HERBERT C	ENZYME STUDIES ON VITAMIN B12 AND ITS CONSTITUENTS	ROI1AM 09134-03S1	BIO	7,413
GEIDUSCHEK, E PETER	STUDIES ON NUCLEIC ACIDS AND NUCLEOPROTEINS	ROI1GM 15880-10	MBC	92,210
GETZ, GODFREY S	ENDOPLASMIC RETICULUM PHOSPHOLIPIDS IN RAPID GROWTH	ROI1CA 10463-01	MBY	34,831
GILBERT, BENTLEY B	TOWARD A NATIONAL HEALTH SERVICE	ROI1M 00486-01	HLS	4,470
GLAGOV, SEYMOUR	PATHOLOGY OF ARTERIAL ADAPTATION TO CHANGES IN FLOW	ROI1HE 05654-08	PTHB	43,704
GLAGOV, SEYMOUR	VASCULAR CHANGES IN DISEASE	ROI1HE 08471-05	PTHA	24,128
GOLDBERG, JAY M	ANATOMY AND PHYSIOLOGY OF BRAINSTEM AUDITORY SYSTEM	ROI1NB 05237-05	CMS	37,226
HARPER, PAUL V	STUDIES ON EXPERIMENTAL PANCREATIC DEFICIENCIES	ROI1AM 03142-08S1	MET	21,108
HARVEY, RONALD G	FACE-HINDERED AROMATIC CARCINOGENS	ROI1CA 08674-02S1	MCHB	16,317
HARVEY, RONALD G	FACE-HINDERED AROMATIC CARCINOGENS	ROI1CA 08674-03	MCHB	44,671
HASELKORN, ROBERT	BIOSYNTHESIS AND STRUCTURE OF PLANT VIRUSES	ROI1AI 04448-07	VR	16,943
HASELKORN, ROBERT	BLUE GREEN ALGAE VIRUS	ROI1AI 06279-04	VR	10,744
HASELKORN, ROBERT	PROTEIN SYNTHESIS IN BACTERIA	ROI1GM 12344-04	BIO	35,066
HILL, IDEN N	EPIDEMIOLOGY OF ORAL HEALTH IN A FLUORIOATED AREA	ROI1DH 00046-03	DEN	37,665
HINOJOSA, RAUL	ELECTRON MICROSCOPE STUDIES ON THE VESTIBULAR SYSTEM	ROI1NB 06809-02	CMS	36,794
HOFFMANN, PHILIP C	INHIBITION OF ELECTRON TRANSPORT IN ISOLATED ATRIA	ROI1HE 08895-05	PHRA	34,296
HOLZWARTH, GEORGE M	ELECTRONIC PROPERTIES OF ORIENTED POLYPEPTIDES	ROI1NB 07286-02	BBCA	37,961

TABLE 2—RESEARCH GRANTS, BY AREA, INSTITUTION, AND PRINCIPAL INVESTIGATOR

INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRG	DOLLARS
ILLINOIS—(CON.)				
HRUBAN, ZDENEK	STUDIES ON THE MECHANISM OF ACTION OF B3TA	RO1CA 05310-08	PTHB	29,752
HUBBY, JOHN L	GENETIC STUDIES OF PROTEIN DIFFERENCES IN DROSOPHILA	RO1GM 12126-05	GEN	51,162
HUTCHENS, JOHN O	THERMODYNAMICS OF PROTOPLASMIC SYNTHESIS	RO1AM 07963-05	BBCA	41,205
INGLE, DWIGHT J	FACTORS AFFECTING REGENERATION OF LIVER	RO1AM 11140-02	GMA	41,663
JACOBSON, LEON O	GENERAL CLINICAL RESEARCH CENTER	MO1FR 00055-07	CLR	325,177
JACOBSON, LEON O	GENERAL RESEARCH SUPPORT GRANT	SO1FR 05367-07	NSS	478,705
JENSEN, ELWOOD V	STERIODS AND GROWTH	RO1CA 02897-12	END	85,291
JONES, RICHARD J	COOPERATIVE STUDY OF DRUGS AND CORONARY HEART DISEASE	RO1HE 10444-03	SRC	38,162
KAISER, EMIL T	THE MECHANISM OF CARBOXYPEPTIDASE ACTION	RO1AM 07957-05	BIO	38,497
KAISER, EMIL T	NEW REAGENTS FOR THE STUDY OF HYDROLYTIC ENZYMES	RO1GM 15951-01	BIO	28,175
KAPLAN, LEONARD	RADICAL ADDITION TO CARBONYL GROUPS	RO1GM 13662-03	MCHB	12,197
KASIK, JOHN E	PENICILLIN INACTIVATION IN MYCOBACTERIA	RO1AI 07336-02	BM	22,570
KATZ, ARNOLD M	BIOCHEMICAL BASIS FOR CONTROL OF CARDIAC CONTRACTION	RO1HE 11734-01	CVA	40,653
KATZ, ARNOLD M	CONTRACTILE PROTEINS OF THE NORMAL AND FAILING HEART	RO1HE 12349-01	PC	10,610
KEFALIDES, NICHOLAS A	CHEMISTRY AND METABOLISM OF BASEMENT MEMBRANES	RO1AM 11634-02	PTHB	37,713
KEZDY, FERENC J	PROTEIN-PROTEIN INTERACTIONS OF PROTEOLYTIC ENZYMES	RO1GM 13885-03	BIO	22,800
KIRSNER, JOSEPH B	EXPERIMENTAL & CLINICAL STUDIES OF ULCERATIVE COLITIS	RO1AM 02133-11	GMA	93,175
KIRSNER, JOSEPH B	ULCERATIVE COLITIS AS A PRECANCEROUS PROBLEM	RO1CA 09467-12	GMA	65,486
KIRSTEN, WERNER H	PATHOGENESIS OF INDUCED LEUKEMIA AND TUMORS IN RATS	RO1CA 04311-10	VR	42,923
KITTLE, C FREDERICK	REGULATORY MECHANISMS OF BLOOD FLOW	RO1HE 10945-02	CVB	20,329
KITTLE, C FREDERICK	COOPERATIVE STUDY OF RESULTS OF CARDIAC SURGERY	RO1HE 10987-03	SRC	57,875
KOHLBERG, LAWRENCE	THE LONGITUDINAL DEVELOPMENT OF MORAL JUDGMENT	RO1HD 02469-02	CPR	23,465
KRAFT, SUMNER C	SERUM AND FECAL PROTEINS IN GASTROINTESTINAL DISEASE	RO1AM 10473-03	GMA	19,015
KRAHL, MAURICE E	NITROGEN METABOLISM IN ISOLATED TISSUES	RO1AM 01653-11	MET	38,133
KRILL, ALEX E	STUDIES OF CARRIERS OF INHERITED RETINAL DISORDERS	RO1NB 05342-04	VIS	26,412
LANDAU, RICHARD L	ENDOCRINE ASPECTS OF GROWTH & METABOLIC REGULATION	PO1HD 01290-04	HDP	104,522
LANGRIDGE, ROBERT	THE STRUCTURE OF NUCLEOPROTEIN	RO1GM 14740-02	BBCB	84,974
LAVENDER, A R	ISOLATED PERFUSED KIDNEY	RO1HE 09513-02	SGYA	38,316
LAW, JOHN H	LIPID METABOLISM	RO1GM 13863-03	BIO	75,247
LEWERT, ROBERT M	ANTIGEN ANTIBODY REACTIONS IN PARASITE INFECTIONS	RO1AI 00884-14	TMP	43,085
LEWERT, ROBERT M	HYPERSENSITIVITY AND RESISTANCE IN SCHISTOSOMIASIS	R22AI 07724-02	SSS	50,516
LIAO, SHUTSUNG	MACROMOLECULAR SYNTHESIS IN ACCESSORY GENITAL ORGANS	RO1AM 09461-03	PC	62,055
LIEBERMAN, MORTON A	ADAPTATION AND SURVIVAL UNDER STRESS IN THE AGED	RO1HD 00364-06	DBR	13,776
LINDSAY, JOHN R	SUPPORT OF THE MIDWESTERN TEMPORAL BONE BANKS CENTER	PO1NB 03768-07A1	CMS	42,273
LORINCZ, ALBERT B	ROLE OF FREE AMINO ACID IMBALANCE IN REPRODUCTION	RO1HD 02601-03	MET	32,991
LUBRAN, MYER M	AMYLASE AND LIPASE ISOENZYMES IN PANCREATIC PATHOLOGY	RO1AM 10942-02	PTHB	28,644
MARKOVITZ, ALVIN	GENETIC AND BIOCHEMICAL STUDIES OF CAPSULE SYNTHESIS	RO1AI 06966-03	MBC	97,326
MATHEWS, MARTIN B	PREPARATION OF ACID MUCOPOLYSACCHARIDE STANDARDS	RO1HE 11083-02	MET	33,433
MEIER, PAUL	BIOLOGICAL SCIENCES COMPUTATION CENTER	PO7FR 00013-06	COM	288,672
MENGUY, RENE	ROLE OF LIVER IN REGULATION OF GASTRIC SECRETION	RO1AM 10423-03	GMA	65,146
MOORE, ROBERT Y	A COMPARATIVE STUDY OF TECTOTHALAMIC CONNECTIONS	RO1NB 04677-06	NEUA	16,504
MOORE, ROBERT Y	HISTOCHEMICAL STUDIES OF BIOGENIC AMINES IN THE BRAIN	RO1NB 05002-05	NEUB	32,059
MOSCONA, ARON A	AGGREGATION OF DISSOCIATED CELLS AND TISSUE FORMATION	RO1HD 01253-10	CBY	46,406
MOULDER, JAMES W	STUDIES ON THE PSITTACOSIS GROUP OF ORGANISMS	RO1AI 01594-12	VR	55,839
MOULDER, PETER V	CO-OPERATIVE LUNG CANCER STUDY	RO1CA 07581-05	RAD	1,926
NAKAMOTO, TOKUMASA	THE SPECIFIC ROLE OF RIBOSOMES IN PROTEIN SYNTHESIS	RO1GM 13841-03	PC	24,710
NEWELL, FRANK W	SENSORY DISEASE CLINICAL RESEARCH CENTER	PO1NB 03358-07	BBCB	162,796
NIDEN, ALBERT H	PULMONARY EDEMA	RO1HE 06918-06	CVB	26,428
OLSEN, LEONARDO K	BIOMEDICAL SCIENCES SUPPORT	SO5FR 07029-03	NSS	77,398
OVERTON, JANE	GROWTH PATTERNS AND FINE STRUCTURE	RO1HD 00223-07	CB	23,799
OXNARD, CHARLES E	MORPHOMETRIC ANALYSIS IN THE PRIMATES	RO1HD 02852-01	AFY	73,519
PAGE, ERNEST	ELECTRON MICROSCOPY OF HEART MUSCLE CELL DEVELOPMENT	RO1HE 10503-03	PHY	37,762
PERLMAN, HENRY B	CIRCULATION OF INNER AND MIDDLE EAR	RO1NB 00269-16	CMS	41,772
POTTS, ALBERT M	NUTRITION AND METABOLISM OF EYE AVASCULAR STRUCTURES	RO1NB 02521-09	VIS	49,653
POTTS, ALBERT M	EXPERIMENTAL AND CLINICAL VISUAL ELECTROPHYSIOLOGY	RO1NB 02522-09	VIS	45,593
POTTS, ALBERT M	THE ACTION OF DRUGS AND POISONS ON THE EYE	RO1NB 05505-04	PET	51,107
PRICE, DOROTHY	HORMONES IN DEVELOPMENT AND AGING OF TISSUES	RO1HD 03481-11	CBY	8,473
PULLMAN, THEODORE N	RENAL EXCRETORY FUNCTIONS AND HEMODYNAMICS	RO1HE 00315-18S1	CVB	17,343
RABINOWITZ, MURRAY	REACTIONS OF CYCLIC PSEUDOURIDINE NUCLEOTIDES	RO1HE 04442-10	PC	29,133
RABINOWITZ, MURRAY	PROTEIN AND RNA SYNTHESIS IN HEART MUSCLE	RO1HE 09172-04	PC	55,256
RAMACHANDRAN, GOPALASAMUDRAM N	THEORETICAL STUDIES ON PROTEIN STRUCTURE	RO1AM 11493-02	BBCB	41,904
RANNIGER, KLAUS	EXPERIMENTALLY INDUCED ISCHEMIA OF THE BOWEL	RO1HE 10570-02S1	GM	631
RANNIGER, KLAUS	EXPERIMENTALLY INDUCED ISCHEMIA OF THE BOWEL	RO1HE 10570-03	GMA	30,140
RAPPAPORT, HENRY	HODGKINS DISEASE RADIOTHERAPY CLINICAL TRIAL STUDY	RO1CA 08970-02	RAD	17,926
RATTENBORG, CHRISTEN C	REGULATION OF RESPIRATION RESISTANCE	RO1HE 08776-05	PHY	19,470
RAVITCH, MARK M	EVALUATION OF SOVIET TISSUE STAPLING DEVICES	RO1GM 14350-03	SCYB	29,750
REILLY, RICHARD W	ABNORMAL HUMAN TISSUE HETEROTRANSPLANTATION	RO1CA 04904-07S1	IMB	845
REILLY, RICHARD W	ABNORMAL HUMAN TISSUE HETEROTRANSPLANTATION	RO1CA 04904-08	IMB	18,529
RENNERT, OWEN M	AMINO ACID ANALOG METABOLISM	RO1CA 10506-01	PHRB	42,073
RIPPON, JOHN W	EXPERIMENTAL PATHOGENICITY OF SAPROPHYTIC FUNGI	RO1AI 06127-04	BM	17,022
RIPPON, JOHN W	COLLAGENASE FROM STREPTOMYCES NOCARDIA MADURAE	RO1AI 06444-03	MBC	11,631
ROIZMAN, BERNARD	MECHANISMS OF VIRAL INFECTION IN RELATION TO CANCER	RO1CA 08494-03	VR	50,833
ROTH, LLOYD J	CELLULAR AUTORADIOGRAPHY OF SOLUBLE OR UNBOUND DRUGS	RO1NB 04500-06	PTHB	36,239

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INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRG	DOLLARS
ILLINOIS—(CON.)				
ROTH, LLOYD J	BLOOD BRAIN BARRIER WITH DAMAGE, STIMULATION, ISOMERS	R01NB 05668-04	NEUA	42,616
ROTHBERG, RICHARD M	IMMUNOLOGIC CAPACITY OF NEWBORNS	R01AI 07854-02	IMB	13,873
ROWE, MARC I	SHOCK IN INFANCY - METABOLIC AND HEMODYNAMIC ASPECTS	R01HD 02610-02	SCYB	14,499
ROWLEY, DONALD A	PATHOLOGY OF INFLAMMATION AND IMMUNITY	R01HE 05667-08	IMB	27,595
RUST, JOHN H	RESEARCH ANIMAL DIAGNOSTIC LABORATORY	P06FR 00409-01	AR	110,441
SCANU, ANGELO M	NATURE AND FUNCTION OF PLASMA LIPOPROTEINS	R01HE 08727-05	BIO	52,655
SCHUMACHER, GEBHARD F	PROTEINS IN THE CONTENT OF THE HUMAN UTERINE CERVIX	R01HD 03696-01	REB	45,048
SIGLER, PAUL B	STRUCTURAL STUDIES OF PROTEINS AND POLYPEPTIDES	R01GM 15225-01	BBCB	67,105
SINGER, RONALD	EVOLUTION AND GENETICS OF SOUTH AFRICAN RACES OF MAN	R01GM 10113-06	GEN	51,721
SKAGGS, LESTER S	ANALOG COMPUTER FOR RESEARCH IN BIOLOGY AND MEDICINE	R01CA 06475-07	COM	29,415
SPARGO, BENJAMIN H	ZONAL RENAL CHANGE WITH POTASSIUM DEPLETION	R01HE 02986-12	PTHA	34,242
SPARGO, BENJAMIN H	ULTRASTRUCTURAL RENAL PATHOLOGY	R01HE 10980-02	PTHA	23,143
SPYROPOULOS, CONSTANTINE S	IONS AND TEMPERATURE IN BEHAVIOUR OF MEMBRANES	R01NB 06719-02	PHY	41,574
STEBLAY, RAYMOND W	SPECIFICITY OF HUMAN NEPHROTOXIC ANTIGENS	R01HE 04785-08	IMB	53,800
STEINBACH, H BURR	REGULATION OF IONIC CONSTITUENTS OF PROTOPLASM	R01GM 10542-05	PHY	29,027
STEINER, DONALD F	STUDIES OF LIVER METABOLISM IN DIABETES	R01AM 04931-08	BIO	35,985
STRAUSS, BERNARD S	A STUDY OF THE MODE OF ACTION OF CHEMICAL MUTAGENS	R01GM 07816-09	GEN	19,800
STUART, FRANK P	IMMUNOLOGICAL ENHANCEMENT OF RAT RENAL ALLOGRAFTS	R01AI 08074-01	IMB	29,665
STUMPF, WALTER E	HORMONE FEEDBACK-CONTROL IN HYPOTHALAMUS	R01AM 12649-01	END	39,502
SWANSON, DON R	EXPERIMENTAL DISSEMINATION OF BIOMEDICAL LITERATURE	R01LM 00036-02	SSS	118,128
SWIFT, HEWSON H	CELL FINE STRUCTURE DURING PROTEIN SYNTHESIS	R01HD 01242-11	MBY	41,400
TAYLOR, EDWIN W	BIOPHYSICAL STUDY OF THE MITOTIC SPINDLE PROTEINS	R01GM 10992-09	BBCB	37,984
THILENIUS, OTTO G	PULMONARY VASOCONSTRICTION DURING HYPOXIA	R01HE 09072-03S1	CVB	9,120
THOMPSON, JOHN S	ESTROGENS EFFECTS ON COMPONENTS OF LYMPHATIC TISSUES	R01AM 08907-04	IMB	48,589
THOMPSON, JOHN S	IMMUNOLOGIC CHARACTERIZATION OF MYCOBACTERIAL B-LACTA	R22AI 08517-01	SSS	33,305
URETZ, ROBERT B	ORGANIZATION OF CHROMOSOMES AND CELL NUCLEOPROTEIN	R01CA 02739-13	MBY	82,056
URRY, WILBERT H	THE MECHANISM OF PHOTOCYCLIZATION REACTIONS	R01GM 10702-06	MCHA	21,432
VENNESLAND, BIRGIT	PHOTOSYNTHESIS AND METABOLISM	R01GM 08735-07	BIO	87,143
WARNOCK, MARTHA L	PHOSPHATASE ISOENZYMES OF INTESTINE	R01AM 11943-01	PTHB	20,428
WISSLER, ROBERT W	INTERRELATIONSHIPS AMONG ATHEROGENIC FACTORS	R01HE 02174-13	PTHA	83,545
WISSLER, ROBERT W	HISTOGENESIS AND CHEMISTRY OF ATHEROSCLEROSIS	R01HE 06894-07	PTHA	181,695
WOOL, IRA G	ENDOCRINE REGULATION OF PROTEIN SYNTHESIS	R01AM 04842-07	MET	73,194
YANG, NIEN-CHU C	PHOTOCHEMICAL SYNTHESIS OF ALKALOIDS AND TERPENES	R01AM 11676-02	MCHA	26,951
YANG, NIEN-CHU C	PHOTOCHEM OF NUCLEIC ACID AND NUCLEOPROTEIN CONSTITUENTS	R01CA 10220-01	MCHA	22,314
ZIRKLE, RAYMOND E	RADIATIONS AND THE MITOTIC CYCLE	R01CA 06632-05	RAD	25,179
ZUSPAN, FREDERICK P	EPINEPHRINE AND NOREPINEPHRINE IN THE OBSTETRIC PATIENT	R01HD 02442-03	HED	17,596
INSTITUTION TOTAL	167 8,029,292			
CHICAGO WESLEY MEMORIAL HOSPITAL				
BUCY, PAUL C	THE DESCENDING CEREBRAL MOTOR PATHWAYS	R01NB 02745-07S2	NEUA	16,702
BUCY, PAUL C	NEURAL CONNECTIONS OF THE TEMPORAL LOBE	R01NB 04297-06	NEUB	8,992
INSTITUTION TOTAL	2 25,694			
CHILDREN'S MEMORIAL HOSPITAL				
BORGES, WAYNE H	CHILDRENS CANCER STUDY GROUP A	R10CA 07431-05	SRC	34,494
EGAN, THOMAS J	CAUSES OF MENTAL RETARDATION IN INFANCY	R01HD 02387-02	GMA	12,130
GREEN, ORVILLE C	ALTERATIONS IN STEROIDAL PATTERNS AT ADOLESCENCE	R01HD 01218-05	END	20,840
HSIA, DAVID Y	PHENYLALANINE AND TRYPTOPHAN HYDROXYLATION IN PKU	R01HD 02643-02	HED	16,525
KASPAR, JOSEPH C	STUDIES OF THE BEHAVIORAL CORRELATES OF BRAIN INJURY	R01NB 06928-02	NEUB	20,838
LAWSON, ROBERT B	GENERAL CLINICAL RESEARCH CENTER FOR CHILDREN	M01FR 00199-04	CLR	205,724
LAWSON, ROBERT B	GENERAL RESEARCH SUPPORT GRANT	S01FR 05475-06	NSS	143,265
MILLICHAP, J GORDON	CONVULSIVE AND ANTICONVULSIVE MECHANISMS IN CHILDREN	R01NB 05161-05	NEUA	21,384
MOFFET, HUGH L	INFECTIOUS ETIOLOGY OF SEVERE INFANTILE DIARRHEA	R01AI 06010-05	VR	37,435
PAUL, MILTON H	CRITERIA FOR VENTRICULAR HYPERTROPHY	R01HE 09941-03	CVA	21,102
SWENSON, ORVAR	ACUTE AND CHRONIC EFFECT OF SHOCK ON HEPATIC CELLS	R01AM 10847-02	PTHA	27,165
INSTITUTION TOTAL	11 560,902			
DE PAUL UNIVERSITY				
WOODS, JAMES E	ONTOGENESIS OF HORMONE SYNTHESIS IN THE CHICK EMBRYO	R01HD 02939-01A1	CBY	15,759
INSTITUTION TOTAL	1 15,759			
FIELD MUSEUM OF NATURAL HISTORY				
HERSHKOVITZ, PHILIP	PUBLICATION NEW WORLD PRIMATES	R01LM 00563-01	BCM	44,979
INSTITUTION TOTAL	1 44,979			
HEKTOEN INSTITUTE FOR MEDICAL RESEARCH OF THE COOK COUNTY HOSPITAL				
ELWYN, DAVID H	QUANTITATIVE ASPECTS OF AMINO ACID METABOLISM	R01AM 07556-06	MET	39,227
GUNNAR, ROLF M	SHOCK IN MYOCARDIAL INFARCTION	R01HE 08834-05	CVA	24,596
HOFFMAN, SAMUEL J	GENERAL RESEARCH SUPPORT GRANT	S01FR 05524-06	NSS	159,834
KUKRAL, JOHN C	TURNOVER OF GLYCOPROTEIN FRACTIONS FOLLOWING INJURY	R01GM 14349-02	SCYA	59,036
LEV, MAURICE	CONGENITAL HEART DISEASE RESEARCH PROGRAM	R01HE 07605-06	CVA	142,715
LEVINE, HAROLD	DEFENSE MECHANISMS IN PATHOGENESIS OF EMPHYSEMA	R01AI 07612-03	SSS	68,631
LONG, DAVID M	CHANGES IN THE FLOW PROPERTIES OF BLOOD WITH TRAUMA	R01HE 12049-01	CVB	30,240
LOURENCO, RUY V	ELECTROMYOGRAPHY IN THE STUDY OF VENTILATORY CONTROL	R01HE 11805-01	CVB	17,858
MARKOWITZ, ABRAHAM S	GLOMERULAR MEMBRANES AND STREPTOCOCCI	R01AM 04459-08	PTHA	43,853

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INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRG	DOLLARS
ILLINOIS—(CON.)				
SHOEMAKER, WILLIAM C	REGULATION OF ORGAN HEMODYNAMICS AND METABOLISM	P01HE 08512-05	HEPA	139,999
SHOEMAKER, WILLIAM C	PHYSIOLOGIC STUDIES IN TRAUMA AND POSTOPERATIVE PATIENT	R01GM 15694-01	SCYA	85,145
STANZLER, ROBERT M	FIBRINOLYTIC MECHANISMS IN PULMONARY VASCULAR DISEASE	R01HE 11339-01S1	HEM	5,994
THAEMERT, JONA C	ULTRASTRUCTURE AND IDENTIFICATION OF MYOCARDIAL AXONS	R01NB 07299-02	PTHA	36,187
INSTITUTION TOTAL	13	853,315		
ILLINOIS INSTITUTE OF TECHNOLOGY				
ADAMS, EMORY T, JR	PHYSICAL CHEMISTRY OF ASSOCIATING SYSTEMS	R01GM 15551-01	BBCA	59,036
CREMER, SHELDON E	SYNTHESES OF PHOSPHORUS HETEROCYCLES	R01CA 07806-05	MCHB	21,836
DRAVNIEKS, ANDREW	FUNDAMENTAL STUDIES ON CHEMOSENSORS	R01NB 05310-04	CMS	20,471
FILLER, ROBERT	CHEMISTRY OF PERFLUOROARYL COMPOUNDS	R01GM 12146-05	MCHA	29,830
GRAD, ARTHUR	BIOMEDICAL SCIENCES SUPPORT	S05FR 07027-03	NSS	54,153
GROSSWEINER, LEONARD I	FAST PHOTOSENSITIZED REACTIONS OF AROMATIC COMPOUNDS	R01GM 10038-05	BBC	38,733
HAYASHI, TERU	THE CONTRACTILE REACTION OF ACTIN AND MYOSIN	R01AM 12243-01	BBCB	8,155
HEDRICK, LESLIE R	ISOLATION AND TAXONOMY OF YEASTS IN LAKES AND SEWAGE	R01AI 04642-06	BM	39,264
KOBLICK, DANIEL C	ACTIVE ION TRANSPORT IN HYDRA	R01NB 05179-05	PHY	25,321
KOPPLE, KENNETH D	CONFORMATION AND ASSOCIATION OF PEPTIDES	R01GM 14069-02	BBCB	28,378
LYKOS, PETER G	QUANTUM CHEMISTRY OF CONJUGATED HETEROCYCLES	R01GM 08068-08	BBCB	40,358
MILLER, SIDNEY I	ACETYLENE CHEMISTRY SYNTHESES AND MECHANISMS	R01GM 07021-09	MCHA	54,128
TAGLIACOZZO, DAISY M	NURSE-PATIENT CONFERENCES AND PATTERNS OF COMPLIANCE	R02NU 00108-03	NR	54,013
INSTITUTION TOTAL	13	473,676		
ILLINOIS STATE DEPARTMENT OF MH—ILLINOIS STATE PSYCHIATRIC INSTITUTE				
BRUNNGRABER, ERIC G	FRACTIONATION OF BRAIN MACROMOLECULES	R01NB 05023-03S1	PC	276
BRUNNGRABER, ERIC G	FRACTIONATION OF BRAIN MACROMOLECULES	R01NB 05023-05	PC	33,888
INSTITUTION TOTAL	2	34,164		
ILLINOIS STATE DEPARTMENT OF MH—INSTITUTE FOR JUVENILE RESEARCH				
JENKIN, NOEL	GENERAL RESEARCH SUPPORT GRANT	S01FR 05666-01	NSS	133,666
POLLACK, ROBERT H	INTELLIGENCE AND PERCEPTUAL DEVELOPMENT IN CHILDHOOD	R01HD 01433-04	DBR	65,745
INSTITUTION TOTAL	2	199,411		
ILLINOIS UNIVERSITY OF AT CHICAGO CIRCLE				
GUTTMAN, HELENE N	NUTRITION AND METABOLISM OF INSECT TRYPANOSOMATIDAE	R01AI 08436-01	TMP	28,796
LIU, CHUI FAN	STEREOSPECIFIC REACTIONS OF COORDINATED MOLECULES	R01GM 14254-03	MCHB	31,374
NICOLETTE, JOHN A	ESTROGEN ACTION AND PROTEIN SYNTHESIS	R01AM 11882-01	END	19,129
STARK, LAWRENCE	BIOMEDICAL ENGINEERING STUDIES & PATTERN RECOGNITION	R01HE 10246-03	COM	63,531
INSTITUTION TOTAL	4	142,830		
ILLINOIS UNIVERSITY OF AT THE MEDICAL CENTER				
ABRAMSON, DAVID I	VASCULAR RESPONSES IN SKIN & MUSCLE TO VARIOUS STATES	R01HE 02568-12	AFY	14,297
ANDERSON, EDMUND G	SPINAL SYNAPTIC TRANSMISSION AND BIOGENIC AMINES	R01NB 05611-04	PHRA	17,484
BINKLEY, STEPHEN B	STUDY OF ANALOGS OF PYRIMIDINES	R01CA 03231-11	PHRB	12,513
BLAKE, MARTIN I	STUDIES WITH FULLY DEUTERIATED ANTIBIOTICS	R01AI 06825-03	MCHB	16,577
BRAMANTE, PIETRO O	ENERGY METABOLISM OF EXPERIMENTAL MYOCARDIAL LESIONS	R01HE 10373-02S1	CVA	5,915
BRODIE, ALLAN G	GROWTH OF THE JAWS AND ERUPTION OF THE TEETH	R01DE 01468-07	DEN	16,554
CARTON, ROBERT W	REPEATED INFECTIONS AND PROGRESS OF CHRONIC BRONCHITIS	R01AI 01690-11	BM	53,325
CATCHPOLE, HUBERT R	HORMONAL MOBILIZATION OF CONNECTIVE TISSUE COMPONENTS	R01DE 02636-02	PTHB	38,911
CORNBLATH, MARVIN	CARBOHYDRATE METABOLISM IN NEONATE	R01HD 00235-07	HED	27,202
CORNBLATH, MARVIN	CARBOHYDRATE METABOLISM IN ERYTHROCYTES OF NEWBORNS	R01HD 02556-08	PC	17,740
COSTEA, NICOLAS V	COLD AGGLUTININ PRODUCTION AND INHIBITION IN RABBITS	R01AI 07085-03	ALY	13,873
DANIELS, RALPH	POLYHALOCYCLOPROPANES AS GENERAL ANESTHETICS	R01GM 13103-03	MCHB	17,040
DERBYSHIRE, ARTHUR J	AER, CNV, AND VASCULAR MEASURES OF SEMANTIC CHANGE	R01NB 06186-02	CMS	15,176
DOUGLAS, BRUCE L	IMPACT OF WATER FLUORIDATION ON DENTAL PRACTICE	R01DH 00044-04	HSR	56,047
DOWLING, HARRY F	GENERAL CLINICAL RESEARCH CENTER	M01FR 00045-06	CLR	271,497
DRAY, SHELDON	SERUM PROTEIN ALLOTYPES	R01AI 07043-03	ALY	20,400
DRAY, SHELDON	CELLULAR MECHANISMS IN DELAYED HYPERSENSITIVITY	R01AI 08576-01	IMB	40,860
FEINBERG, HAROLD	ADENINE NUCLEOTIDE 6-NH2 METABOLISM IN HEART MUSCLE	R01HE 08921-03S1	PHRA	8,683
FRIEDERICI, HARTMANN H	CAPILLARIES OF SKIN AND SUBCUTIS	R01AM 04365-07S1	PTHA	9,000
GALANTE, JORGE O	TOTAL PROSTHETIC REPLACEMENT OF THE HUMAN HIP JOINT	R01AM 12567-01	SCYA	64,986
GANTT, CLARENCE L	NON-ALDOSTERONE RENAL SODIUM RETAINING MECHANISMS	R01HE 09720-03S1	CVB	6,365
GEARREN, JAMES E	1,2,3,4-TETRAHYDROQUINOLINES OF BIOLOGICAL INTEREST	R01AM 06432-06	MCHB	12,066
GERSON, STANLEY J	ORAL UNKERATINIZED EPITHELIUM HISTOCHEMICAL STUDIES	R01DE 02727-01A1	DEN	22,827
GOLAND, PHILIP	FIXATION OF TISSUES BY METALIZABLE CHLORO-S-TRIAZINES	R01DE 02546-01	PTHA	34,248
GOTOFF, SAMUEL P	STUDIES OF THE BETA I C GLOBULIN IN GLOMERULONEPHRITIS	R01AM 10318-03	ALY	17,909
GRIMM, ARTHUR F	GROWTH AND FUNCTION OF THE ORAL STRIATED MUSCULATURE	R01DE 02417-03	DEN	14,440
GROVE, WILLIAM J	GENERAL RESEARCH SUPPORT GRANT	S01FR 05369-07	NSS	277,572
HAHN, JEROME J	CHEMISTRY AND BIOLOGY OF C- AND CX-REACTIVE PROTEINS	R01AM 08093-03S1	ALY	1,655
HAHN, JEROME J	CHEMISTRY AND BIOLOGY OF C- AND CX-REACTIVE PROTEINS	R01AM 08093-04A1	ALY	15,838
HAMBY, WILLIAM M	UNILATERAL RENAL FUNCTION USING URETERAL COMPRESSION	R01HE 09150-03A2S1	CVA	4,520
HANLON, MARY S	INTERACTION OF NUCLEIC ACIDS AND RELATED MODELS	R01GM 15180-02	BBCA	16,860
HAQUE, RIAZ-UL	EXTRACELLULAR ENZYMES AND TOXINS OF S AUREUS	R01AI 08906-01	CDC	38,487
HUDSON, EDSSEL K	PREVENTION OF HEPATITIS AFTER CARDIOVASCULAR SURGERY	R01HE 10229-02	SRC	9,518
ISAACS, EUGENE W	STUDIES ON THE MECHANISM OF COMPENSATORY RENAL GROWTH	R01AM 11553-02	GMA	21,004
JACKSON, GEORGE G	BACTERIAL SPECIES AND HOST RESPONSE IN PYELONEPHRITIS	R01AI 01949-11	BM	32,820

TABLE 2—RESEARCH GRANTS, BY AREA, INSTITUTION, AND PRINCIPAL INVESTIGATOR

INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRG	DOLLARS
ILLINOIS—(CON.)				
JACKSON, GEORGE G	VIRUSES CAUSING COMMON RESPIRATORY INFECTIONS	RO1AI 04059-07	VR	49,380
JEFFAY, HENRY	PROTEIN METABOLISM IN ORAL TISSUES	RO1DE 02300-03	DEN	19,500
JENSIK, ROBERT J	LUNG CANCER PREOPERATIVE RADIATION THERAPY STUDY	R01CA 07197-05	RAD	14,722
JOHNSON, CLARENCE A	STUDIES ON NON-HEME COMPONENTS OF HUMAN ERYTHROCYTES	RO1AI 02520-D9S1	HEM	5,780
KAMINETZKY, HAROLD A	ADJUVANT UTERINE CANCER CHEMOTHERAPY	R01CA 07386-05	SRC	1,607
KARK, ROBERT M	BIOPSY STUDIES OF KIDNEY STRUCTURE AND FUNCTION	R01HE 02253-12	CVA	63,684
KATHAN, RALPH H	STRUCTURE STUDIES OF VIRAL HEMAGGLUTINATION INHIBITORS	RO1AI 05333-05	VR	14,613
KLING, ARTHUR	PRIMATE BREEDING FACILITY	P06FR 00387-01	PME	113,065
KLING, ARTHUR	EXPERIMENTAL CNS LESIONS AND PSYCHOSOMATIC MATURATION	R01HD 02277-03	EXP	62,082
KOHN, PAUL	INTESTINAL ABSORPTION OF CARBOHYDRATES	RO1AM 04967-08	MET	14,481
KOHN, PAUL	POTENTIAL ANTI-CANCER AGENTS	R01CA 07960-02	MCHA	44,009
KRAKOWER, CECIL ALEXANDER	STUDIES ON THE CAPILLARY WALL	R01HE 01623-17	PTHA	22,071
KUKRAL, JOHN C	THE ROLE OF THE LIVER IN PLASMA PROTEIN METABOLISM	RO1AM 10444-03	MET	32,730
KUKRAL, JOHN C	METABOLISM OF PLASMA PROTEIN FRACTIONS AFTER INJURY	R01GM 13655-04	SGYA	43,495
LA VELLE, ARTHUR	LIPID AND NUCLEOPROTEIN IN DEVELOPING NERVE CELLS	R01NB 00415-15	NEUB	16,230
LARRAMENDI, L M	ELECTRON MICROSCOPY OF CEREBELLAR SYNAPTOGENESIS	RO1NB 05408-04	NEUB	15,064
LARRAMENDI, L M H	AN ANALYSIS OF CEREBELLAR SUBCELLULAR FRACTIONS	R01NB 06783-02	NEUB	24,073
LAVRIN, DAVID H	VIRUS-ASSOCIATED MAMMARY TUMORIGENESIS IN C3H/ZB MICE	RO1CA 10272-02	VR	39,446
LICHTER, EDWARD A	CROSS-REACTING ISO- AND HETERO-ANTIBODIES IN PRIMATES	RO1AM 11914-01	ALY	21,426
MARCZYNSKI, THADDEUS	NEUROHUMORAL SUPRASPINAL CONTROL OF MOTOR SYSTEMS	R01NB 06385-03	NEUB	16,028
MASSLER, MAURY	REPLANTATION OF TEETH	R01DE 02651-02	DEN	24,163
MAYNERT, E W	METABOLIC FATE OF NEUROPHARMACOLOGICAL AGENTS	R01NB 06288-04	PHRA	33,301
MAYNERT, EVERETT W	NERVE-ENDING PARTICLES AND SYNAPTIC VESICLES	R01NB 06312-03	NEUB	30,308
MC DONALD, GERALD O	THE EFFECT OF DRUGS UPON DNA SYNTHESIS	RO1CA 07574-05	PHRB	39,828
MEYER, JULIA	STUDIES ON NORMAL AND ALTERED ORAL MUCOSA	R01DE 02342-02	DEN	45,601
MILLER, GEORGE E	THE EFFICIENT USE OF MEDICAL MANPOWER	R01PM 00014-05	HSR	111,082
MILLER, GEORGE E	COMPUTER SIMULATION OF CLINICAL ENCOUNTERS	R01PM 00024-01	NSS	123,582
MILLER, ROBERT A	COMPUTER ANALYSIS OF THE ORTHOGONAL ECG IN CHILDREN	R01HE 08956-03S1	COM	17,836
MOLNAR, JANOS	METABOLISM OF GLYCOPROTEINS	R01HD 02591-03	MET	27,944
MYERS, TERRELL C	PHOSPHATE REACTION MECHANISMS OF BIOCHEMICAL INTEREST	RO1AM 11702-01	MCHA	20,263
NISONOFF, ALFRED	STRUCTURAL BASIS OF ANTIBODY SPECIFICITY	RO1AI 06281-04	ALY	30,330
NYHUS, LLOYD M	PHYSIOLOGY & REPAIR OF GASTROESOPHAGEAL INCOMPETENCE	RO1AM 11835-01	SGYB	61,985
OMACHI, AKIRA	ROLE OF PHOSPHATE METABOLISM IN TRANSPORT	RO1GM 11430-05	PHY	25,482
PRUZANSKY, SAMUEL	STUDIES ON CONGENITAL MALFORMATIONS OF THE HEAD	R01HD 01153-04	DEN	159,977
REYNOLDS, WYNETKA A	EFFECTS OF LOW TEMPERATURES ON AMPHIBIAN METAMORPHOSIS	RO1GM 13979-03	CBY	18,066
ROSENTHAL, IRA M	CATECHOLAMINE METABOLISM IN NEUROBLASTOMA	R01NB 04703-06	PHRB	23,112
SAMACHSON, JOSEPH	THE SURFACE CHEMISTRY OF BONE, DENTIN, AND ENAMEL	R01DE 02005-05	DEN	15,911
SCHULMAN, IRVING	HEMORRHAGIC DISEASE IN INFANTS AND CHILDREN	R01HD 00568-08	HEM	36,781
SCHULMAN, IRVING	LONGEVITY AND SIGNIFICANCE OF COAGULATION FACTORS	R01HE 07418-06	HEM	30,947
SCHUMER, WILLIAM	STUDY OF THE VASODILATOR PROTECTIVE MECHANISM IN SHOCK	RO1GM 15614-02	SGYA	18,372
SCHUMER, WILLIAM	GLYCOPROTEIN BIOSYNTHESIS IN SHOCK	RO1GM 15615-02	MET	17,802
SCHWARTZ, NEENA B	ENVIRONMENTAL AND HORMONAL INTERPLAY OF OVULATION	R01HD 00440-06S1	REB	8,889
SCHWARTZ, NEENA B	ENVIRONMENTAL AND HORMONAL INTERPLAY OF OVULATION	R01HD 00440-07	REB	54,987
SHEKELLE, RICHARD	THE EPIDEMIOLOGY OF CEREBROVASCULAR DISEASE	R01NB 04182-06	EOC	144,006
SMITH, ROGER D	PATHOLOGY OF COMBINED VIRAL - CHEMICAL CARCINOGENESIS	R01CA 10293-02	PTHB	20,582
STANLEY, MALCOLM	IODINE METABOLISM IN THE GUT IN MAN	RO1AM 08602-05	GM	20,763
STERN, KURT	ISOSENSITIZATION CAUSED BY PREGNANCY OR TRANSFUSION	R01HD 00533-09	IMB	15,848
VAN ALTEN, PIERSON J	ONTOGENY OF ADAPTIVE IMMUNITY IN THE CHICKEN	RO1AI 08289-01	IMB	25,789
WEISSMANN, BERNARD	ISOLATION AND STRUCTURE OF ACID MUCOPOLYSACCHARIDES	RO1AM 02479-10	PC	34,124
WHITEHORN, WILLIAM V	ENDOCRINE FACTORS IN MYOCARDIAL FUNCTION	R01HE 01353-16	PHY	16,354
WOLF, ARNOLD V	REGULATION OF CONCENTRATION IN BODY LIQUIDS	R01HE 04517-08	PHY	8,081
YALE, SEYMOUR H	THE TEMPOROMANDIBULAR JOINT AND ASSOCIATED STRUCTURES	PO1DE 01849-05	DEP	158,585
YALE, SEYMOUR H	GENERAL RESEARCH SUPPORT GRANT	SO1FR 05309-07	NSS	99,034
INSTITUTION TOTAL	88	3,417,410		
LOYOLA UNIVERSITY				
AKTIPIS, STELIOS	NUCLEIC ACID INTERACTION WITH POLYPEPTIDES AND DIAMINES	RO1CA 10346-01S1	PC	770
AKTIPIS, STELIOS	NUCLEIC ACID INTERACTION WITH POLYPEPTIDES AND DIAMINES	RO1CA 10346-02	PC	15,426
BIAVA, CLAUDE G	ULTRASTRUCTURE OF METAPLASTIC RESPIRATORY EPITHELIUM	R01HE 10168-03	PTHB	25,549
BIAVA, CLAUDE G	ULTRASTRUCTURE OF HUMAN RENAL VASCULAR LESIONS	R01HE 10175-03	PTHB	48,480
DAVIS, JOSEPH R	METABOLIC STUDIES ON NORMAL & CRYPTORCHID RAT TESTES	R01HD 01573-04	MET	22,242
DERN, RAYMOND J	HEREDITARY ABNORMALITIES OF ERYTHROCYTE METABOLISM	RO1AM 09919-03	HEM	39,123
DOMM, LINCOLN V	IDENTIFICATION OF CELLULAR SITES OF HORMONE SYNTHESIS	RO1AM 09926-03	END	24,110
DOMM, LINCOLN V	ENDOCRINE EFFECTS ON INCISORS AND RELATED STRUCTURES	R01DE 00694-09	DEN	26,760
GOLDBERG, JULIUS	EPIDEMIOLOGY OF GRANULOMA INGUINALE	RO1AI 08465-01	BM	13,577
GRUBER, ROLF G	SELF-CURING RESINS-BOND STRENGTH, PHYSICAL PROPERTIES	R01DH 00110-02	DEN	9,051
HADEK, ROBERT	CELL DIFFERENTIATION STUDY ON EARLY MAMMALIAN EMBRYOS	R01HD 00552-07	HED	26,268
HADEK, ROBERT	NERVE TERMINATIONS IN THE HEART	R01HE 09843-03	PTHA	22,392
HILGERS, DONALD C	EXPERIMENTAL CLEFT PALATE WITH INTERNAL IRRADIATION	R01HD 02077-03	DEN	12,470
KARCZMAR, ALEXANDER G	ORGANOPHOSPHORUS AGENTS WITHIN VARIOUS SYNAPSES	R01NB 06455-03	PHRA	69,608
KERESZTES-NAGY, STEVEN	NON-HEME IRON PROTEINS STRUCTURE FUNCTION RELATIONS	RO1GM 14831-02	BBCB	31,624
KOKETSU, KYOZO	STUDIES ON SINGLE NEURON ACTIVITY	R01NB 06672-03	PHY	34,607
MARCUS, LEDN	PROTEIN BIOSYNTHESIS IN A CELL-FREE YEAST SYSTEM	RO1GM 14117-02	MBC	23,958

TABLE 2—RESEARCH GRANTS, BY AREA, INSTITUTION, AND PRINCIPAL INVESTIGATOR

INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRG	DOLLARS
ILLINOIS—(CON.)				
MEADOWS, WILLIAM R	CARDIOGLOBULIN IN IDIOPATHIC MYOCARDIAL FAILURE	RO1HE 06459-06	CVB	9,345
OESTER, Y T	DENERVATION AND REVERSIBLE NERVE BLOCK	RO1NB 05728-03	PHRA	3,486
RABINOWITZ, YALE	STUDIES OF BLOOD AND MARROW CELLS IN TISSUE CULTURE	RO1CA 06504-07	HEM	18,385
RANDALL, WALTER C	REGULATION OF THE CARDIOVASCULAR SYSTEM	PO1HE 08682-05	HEP	185,079
RAPP, GUSTAV W	BIOCHEMICAL STUDY ON LOCAL ANESTHETICS AND ANESTHESIA	RO1NB 06488-03	NEUB	18,858
SCHMIDT, ROBERT S	ANURAN NEUROETHOLOGY	RO1NB 06673-03	EXP	28,213
SHEEHAN, JOHN F	GENERAL RESEARCH SUPPORT GRANT	SO1FR 05368-07	NSS	137,189
SICHER, HARRY	COMPARATIVE ANATOMY OF FEEDING ORGANS	RO1DE 02309-03	DEN	24,948
TOTO, PATRICK D	GENERAL RESEARCH SUPPORT GRANT	SO1FR 05310-07	NSS	46,127
VELARDO, JOSEPH T	HISTO AND BIOCHEMISTRY OF UTERINE GROWTH AND PATHOLOGY	RO1HD 03487-01	PTHA	40,188
YOTIS, WILLIAM W	SEX HORMONES AND STAPHYLOCOCCAL INFECTION	RO1AI 06618-03	BM	11,580
INSTITUTION TOTAL	28 969,413			
MICHAEL REESE HOSPITAL AND MEDICAL CENTER				
BARAM, PETER	DELAYED HYPERSENSITIVITY ANTIBODY CHARACTERIZATION	RO1AI 03309-08	ALY	55,340
BERLOW, STANLEY	BIOCHEMICAL INVESTIGATION OF MENTAL RETARDATION	RO1HD 02143-03	MET	14,548
BURKE, GERALD	CIRCULATING INHIBITOR OF LATS	RO1AM 11136-02	END	34,952
CHERNAK, NEIL S	CO2 STORES RELATION TO OPEN-LOOP VENTILATORY CONTROL	RO1HE 10979-02	PHY	25,309
COHEN, SIDNEY	SYNTHESIS OF STAPHYLOCOCCAL PENICILLINASE	RO1AI 02457-10	BM	22,821
COHEN, SIDNEY	RESISTANCE TRANSFER FACTORS IN ENTEROBACTERIACEAE	RO1AI 07715-02	BM	20,364
COHN, CLARENCE	INFLUENCE OF DIET ON METABOLIC PROCESSES	RO1AM 00193-15S1	NTN	1,797
COHN, CLARENCE	INFLUENCE OF DIET ON METABOLIC PROCESSES	RO1AM 00193-16	NTN	23,446
FISHMAN, ALFRED P	CARDIOVASCULAR CLINICAL RESEARCH	PO1HE 06375-06S1	HEPA	227,631
FISHMAN, ALFRED P	CARDIOVASCULAR CLINICAL RESEARCH	PO1HE 06375-07	HEPA	654,294
GOLDSTEIN, MAURICE S	MECHANISM OF ACTION OF INSULIN	RO1AM 00396-16	MET	89,577
GORDON, EDWARD E	MUSCLE PROTEINS AND DNA	RO1AM 08776-03S1	AFY	14,054
KELLER, ROBERT	STUDIES ON VIRUS ANTIBODY SUBUNIT INTERACTIONS	RO1AI 06550-04	VR	23,011
LEWY, JOHN E	RENAL ION AND WATER TRANSPORT IN NEPHROSIS	RO1AM 11871-01	GMB	32,480
METCOFF, JACK	NUTRITION, CELL FNCTION AND GROWTH RETARDATION	R22HD 02912-01	HED	41,624
NATELSON, SAMUEL	LEVELS OF GUANIDINO COMPOUNDS IN HEALTH AND DISEASE	RO1AM 09958-04	PTHA	18,010
NECHELES, HEINRICH	ANTRUM GASTRITIS AND ULCER BY VAGUS STIMULATION	RO1AM 06078-05S1	GM	5,335
NICKSON, JAMES J	COOPERATIVE HODGKINS DISEASE CLINICAL TRIAL	RO1CA 08971-02S1	RAD	24,461
NICKSON, JAMES J	AN AUTOMATED TREATMENT CONTROL SYSTEM FOR RADIOTHERAPY	RO1CA 10041-02S1	NSS	9,429
OFFER, DANIEL	THE MODAL ADOLESCENT	RO1HD 02571-05	DBR	34,144
OVADIA, JACQUES	PULSE RADIOLYSIS IN RADIATION BIOLOGY	RO1GM 12716-04	RAD	50,400
PESCE, AMADEO J	TRANSPORT OF ALBUMIN AND ITS FRAGMENTS BY THE KIDNEY	RO1AM 12330-01	GMA	26,020
PESKIN, GERALD W	CIRRHOSIS, ASCITES AND THE HEPATIC CIRCULATION	RO1HE 11909-01	SGYB	35,400
PIETRA, GIUSEPPE G	SKIN CAPILLARIES IN CARDIAC AND METABOLIC DISORDERS	RO1HE 12077-01	PTHA	30,687
PIRANI, CONRAD L	KIDNEY CHANGES IN RENOVASCULAR HYPERTENSION	RO1HE 10203-03	SRC	29,052
POLLAK, VICTOR E	CLINICOPATHOLOGIC AND OTHER STUDIES ON RENAL DISEASE	RO1AM 10314-02S1	PTHA	2,657
POLLAK, VICTOR E	CLINICOPATHOLOGIC AND OTHER STUDIES ON RENAL DISEASE	RO1AM 10314-03	PTHA	81,006
REISS, ERIC	RADIOIMMUNOASSAY OF PARATHYROID HORMONE IN MAN	RO1AM 08572-04	END	20,615
SILVERMAN, WILLIAM J	GENERAL RESEARCH SUPPORT GRANT	SO1FR 05476-06	NSS	304,490
TANNENBAUM, ALBERT	FACTORS AND MECHANISMS IN CARCINOGENESIS	RO1CA 03787-11	PTHB	80,012
INSTITUTION TOTAL	30 2,032,966			
MICHAEL REESE RESEARCH FOUNDATION				
GOODMAN, HAROLD S	HISTOCOMPATIBILITY ANALYSIS OF LEUCOCYTE ISOANTIGENS	RO1AI 07505-02	IMB	15,336
ROBBINS, KENNETH C	SEPARATION AND PURIFICATION OF POLLEN ALLERGENS	RO1AI 03185-09	ALY	12,578
ROBBINS, KENNETH C	PREPARATION OF HUMAN PLASMIN FOR CLINICAL EVALUATION	RO1HE 04366-10	HEM	36,626
INSTITUTION TOTAL	3 64,540			
NORTHWESTERN UNIVERSITY				
ALLEN, GEORGE W	CEREBROSPINAL FLUID PRESSURE INFLUENCES UPON HEARING	RO1NB 05406-04	CMS	31,042
ALT, HOWARD L	THE PATHOGENESIS OF AZOTEMIC ANEMIA	RO1AM 05289-07	HEM	28,106
ANDERSON, MARION C	SIGNIFICANCE OF VASCULAR INJURY IN PANCREATITIS	RO1AM 02188-10	PTHA	23,723
ANNEGERS, JOHN H	ABSORPTION FROM THE INTESTINE	RO1AM 04916-07	PHY	9,919
BAHN, ARTHUR N	ALTERATION OF THE ORAL MICROBIOTA AND SEQUELAE	RO1DE 02240-03	DEN	20,973
BARRETT, RICHARD J	PITUITARY PEPTIDES	RO1AM 07435-06	END	22,910
BARRON, KEVIN D	ENZYME HISTOCHEMISTRY OF AXON INJURY	RO1NB 04722-06	NEUB	12,671
BELL, NORMAN H	STUDIES OF VITAMIN D METABOLISM	RO1AM 09016-03S1	NTN	9,194
BELL, NORMAN H	STUDIES OF VITAMIN D AND CALCIUM METABOLISM	RO1AM 09016-04	GMB	19,289
BERGAN, JOHN J	SYSTEMIC EFFECTS OF INTESTINAL REVASCULARIZATION	RO1HE 09153-03S1	CVA	7,973
BERGAN, JOHN J	SYSTEMIC EFFECTS OF INTESTINAL REVASCULARIZATION	RO1HE 09153-04	CVA	34,935
BERNSOHN, JOSEPH	STUDY OF MYELIN IN BRAIN	RO1NB 04191-06	PC	14,853
BLEVINS, CHARLES E	TYMPANIC AND LARYNGEAL MUSCLE INNERVATION PATTERNS	RO1NB 07905-01	CMS	16,835
BLEVINS, CHARLES E	TYMPANIC AND LARYNGEAL MUSCLE INNERVATION PATTERNS	RO1NB 07905-02	CMS	16,465
BONDAREFF, WILLIAM	MORPHOLOGY OF MONOAMINE STORAGE VESICLES	RO1NB 07044-02	NEUB	15,166
BRANDFONBRENER, MARTIN	THE HEART IN SHOCK	RO1HE 12027-01	CVA	27,138
BREWER, JOHN I	CHEMOTHERAPY AND STUDIES IN TROPHOBLASTIC DISEASES	RO1CA 06616-06	PHRB	152,477
BREWER, JOHN I	PLANNING FOR CHORIOCARCINOMA COOPERATIVE STUDY	RO1CA 10919-01	NSS	9,067
CARHART, RAYMOND T	OUTPATIENT RESEARCH CENTER FOR SENSORINEURAL DEAFNESS	P15NB 07791-01	NBPB	89,028
CARONE, FRANK A	RENAL HANDLING OF PROTEIN, PHOSPHATE AND CALCIUM	RO1HE 06896-07	PHY	19,440
CHEH, CHIADAO	SYNTHESIS OF BUFADIENOLIDES	RO1AM 09685-03	MCHA	16,050

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INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRG	DOLLARS
ILLINOIS—(CON.)				
COE, ELMON L	FACTORS CONTROLLING GLYCOLYSIS IN CELLULAR SYSTEMS	ROI1CA 10723-05	BIO	13,841
COLWELL, ARTHUR R, JR	EXTRAPANCREATIC STIMULATION OF INSULIN SECRETION	ROIAM 10039-03	MET	20,349
COLWELL, JOHN A	INSULIN SECRETION AND DEGRADATION IN MAN	ROIAM 05871-07	MET	18,464
EARLE, DAVID P	DEVELOPMENT AND PROGRESSION OF RENAL DISEASE	PO1HE 07057-06	HEP	96,563
ECKENHOFF, JAMES E	ANESTHESIA RESEARCH CENTER	PO1GM 15420-02	GMP	274,851
EKSTEDT, RICHARD D	THE TEICHODIC ACID ANTIGENS OF STAPHYLOCOCCUS AUREUS	ROI1AI 07716-02	BM	19,063
EVERINGHAM, JOHN W	CYTOLOGY OF NEURAL TUBE FORMATION	ROI1NB 06626-02	CB	10,320
FARBMAN, ALBERT I	CYTOLOGICAL STUDIES OF INDUCTION DURING DEVELOPMENT	ROI1NB 06181-02	CBY	16,072
FREINKEL, NORBERT	REGULATORY MECHANISMS IN METABOLISM	ROI1AM 10699-03	MET	98,023
FREINKEL, RUTH K	INTERMEDIATE METABOLISM OF SKIN	ROI1GM 14553-02	GMA	38,852
GOREN, SEYMOUR B	THE LOCALIZATION OF TRITIATED DIGOXIN IN THE EYE	ROI1NB 07684-01	VIS	17,278
GREENER, EVAN H	THE REINFORCED AMALGAM	ROI1DE 02305-03	DEN	15,394
GREENER, EVAN H	REACTIONS OF METALLIC OXIDES AND EUGENOL	ROI1DE 02404-03	DEN	14,760
GREENER, EVAN H	ALLOYS FOR BIOMEDICAL APPLICATIONS	ROI1GM 14099-03	DEN	43,064
HAMMOND, JAMES B	HISTOCHEMISTRY OF ADULT ENTERIC LACTASE DEFICIENCY	ROI1AM 09663-03S1	GMA	4,649
HARING, OLGA M	COOPERATIVE STUDY OF DRUGS AND CORONARY HEART DISEASE	ROI1HE 10696-02S1	SRC	2,764
HARING, OLGA M	COOPERATIVE STUDY OF DRUGS AND CORONARY HEART DISEASE	ROI1HE 10696-03	SRC	58,262
HART, CECIL W	VESTIBULAR DYSFUNCTION IN OTOSCLEROSIS	ROI1NB 05898-02	CMS	25,610
HELD, IRENE R	NEUROTROPHIC PROTEINS RELATED TO MUSCLE METABOLISM	ROI1NB 07205-02	NEUB	17,152
HOLLAND, JAMES M	HORMONE DEPENDENT UROGENITAL TUMORS IN RODENTS	ROI1CA 10286-01	PTHA	22,445
HOLLIFIELD, GUY F	STUDIES IN EXPERIMENTAL OBESITY	ROI1AM 11299-01A1	NTN	42,383
HUGHES, JOHN R	ANALYSIS OF VERTEBRATE DLFACTORY SYSTEMS	ROI1NB 05377-05S1	CMS	2,882
HUGHES, JOHN R	ANALYSIS OF VERTEBRATE DLFACTORY SYSTEMS	ROI1NB 05377-06	CMS	25,259
ISAACS, BERTHA L	SOUTHWEST COOPERATIVE CHEMOTHERAPY STUDY GROUP	ROI1CA 06746-05S1	SRC	5,849
JACOBS, HENRY R	DEFORMABILITY OF RED CELL PACKS IN HEALTH AND DISEASE	ROI1HE 05446-08S1	HEM	1,134
JACOBS, HENRY R	DEFORMABILITY OF RED CELL PACKS IN HEALTH & DISEASE	ROI1HE 05446-09	HEM	13,335
JENNINGS, ROBERT B	MYOCARDIAL CELL INJURY	ROI1HE 08729-05	PHRB	79,181
JOHNSON, TERRY C	MAMMALIAN BRAIN DEVELOPMENT	ROI1NB 06853-02	NEUB	16,807
JUNGMANN, RICHARD A	CLEAVAGE OF THE CARBON 17-20 BOND IN STEROIDS	ROI1AM 09193-02	END	13,043
KAHN, JULIUS B, JR	ACTIONS OF DRUGS AFFECTING TRANSPORT PROCESSES	ROI1HE 06388-07	PHRA	22,730
KALTENBACH, JOHN P	BIOCHEMICAL STUDY OF HOST RESPONSE TO ABNORMAL GROWTH	ROI1CA 10698-01	PTHB	16,651
KESSLER, RICHARD H	ADENINE NUCLEOTIDE METABOLISM OF KIDNEY MEDULLA	ROI1AM 13098-01	PHY	9,444
KOENIG, HAROLD	PYRIMIDINE NUCLEOTIDE METABOLISM IN THE NERVOUS SYSTEM	ROI1NB 01456-10	NEUB	54,864
KOENIG, HAROLD	STUDIES OF NEURAL LYOSOMES	ROI1NB 05509-04	NEUB	36,435
KOENIG, HAROLD	EFFECTS OF CERTAIN ANTIBIOTICS ON SPINAL CORD	ROI1NB 06838-02	NEUB	33,493
KOUSHANPOUR, ESMAIL	THE BAROCEPTOR PROCESS IN THE CAROTID SINUS	ROI1HE 09735-04	PHY	2,378
KURAMITSU, HOWARD K	ALLOSTERIC REGULATION IN BACTERIAL METABOLISM	ROI1AM 12132-01	BIO	21,660
KWAAN, HAU C	ORIGIN OF FIBRINOLYTIC ACTIVITY IN THE BODY	ROI1HE 10573-02S2	HEM	6,994
KWAAN, HAU C	SOUTHWEST CANCER CHEMOTHERAPY STUDY GROUP	ROI1CA 08043-03S1	SRC	3,898
LEVIN, MURRAY L	UREMIC RED CELL METABOLISM, SODIUM FLUXES AND ATPASE	ROI1AM 11869-01	GMB	23,972
LEWIS, F JOHN	RESPIRATORY FUNCTION IN POSTOPERATIVE PATIENTS	ROI1HE 10177-03	SGYA	34,750
LOEVY, HANNELORE	CLEFT-PALATE AND HARELIP IN DIFFERENT STRAINS OF MICE	ROI1HD 02092-03	DEN	11,336
MACKAY, ROLAND P	COOPERATIVE STUDY OF ACTH IN MULTIPLE SCLEROSIS	ROI1NB 05836-04	SRC	12,972
NADLER, HENRY L	ENZYME STUDIES IN CULTIVATED FETAL CELLS	ROI1HD 02752-02	HED	22,904
O CONOR, VINCENT J, JR	COOPERATIVE STUDY OF RENOVASCULAR HYPERTENSION	ROI1HE 06652-06	SRC	16,107
OKITA, GEORGE T	IN VIVO BIOCHEMICAL STUDIES OF MAMMARY CARCINOGENS	ROI1CA 07930-03S1	PHRB	11,453
OKITA, GEORGE T	METABOLISM & MECHANISM OF ACTION OF DIGITALIS	ROI1HE 08749-05	PHRA	32,038
PARKER, RICHARD H	INFECTIOUS/IMMUNE FACTORS- OBSTRUCTIVE PULMONARY DISEASE	ROI1AI 07952-02	ALY	37,630
PATERSON, PHILIP Y	IMMUNE BASIS OF DISEASE - ALLERGIC ENCEPHALOMYELITIS	ROI1NB 06262-04	ALY	54,297
PERRY, DENNIS	TRANSFORMABILITY OF ANTIBIOTIC-RESISTANT STREPTOCOCCI	ROI1AI 07694-02	BM	11,964
PERRY, HAROLD T, JR	RELATION OF DENTO FACIAL DEVELOPMENT TO BODY GROWTH	ROI1DE 02224-03	DEN	7,022
PRUZANSKY, JACOB J	DETECTION OF ANTIBODIES IN RAGWEED ALLERGY	ROI1AI 06139-05	IMB	12,508
ROSENBLUM, WILLIAM I	CEREBRAL MICROCIRCULATION	ROI1HE 12042-01	CVB	42,203
ROSSI, ENNIO C	PLATELET PHOSPHORUS DURING CLOTTING AND STORAGE	ROI1HE 11171-02	HEM	12,847
SCHMID, FRANK R	BIOLOGIC ACTION OF RHEUMATOID FACTOR AND COMPLEMENT	ROI1AM 11513-02	ALY	19,284
SCHREK, ROBERT	IN VITRO SURVIVAL OF LYMPHOCYTES FROM IRRADIATED RATS	ROI1CA 06631-06	RAD	13,624
SHAMBAUGH, GEORGE E, JR	METABOLISM OF THE INNER EAR	ROI1NB 02674-09	CMS	57,304
SIEGEL, ALAN C	GROUP A STREPTOCOCCAL INFECTIONS IN CHILDREN	ROI1HE 04164-10	BM	33,463
SLADE, HUTTON D	BIOLOGICAL ACTIVITIES OF GROUP A STREPTOCOCCUS	ROI1HE 03709-10S1	BMA	1,871
SLADE, HUTTON D	BIOLOGICAL ACTIVITIES OF GROUP A STREPTOCOCCUS	ROI1HE 03709-11	BM	27,598
SPEHLMANN, RAINER	MICROELECTROPHORETIC STUDY OF VISUAL CORTEX	ROI1NB 06820-02	NEUA	24,267
STERN, PAULA H	EFFECTS OF HORMONES ON BONE RESORPTION IN VITRO	ROI1AM 11262-02	GMB	17,016
TEUSCHER, GEORGE W	GENERAL RESEARCH SUPPORT GRANT	SO1FR 05311-07	NSS	65,591
VEIS, ARTHUR	THE STATE OF COLLAGEN IN CALCIFIED TISSUES	ROI1DE 01374-08	PC	20,143
VEIS, ARTHUR	PHASE SEPARATION IN POLYELECTROLYTE SYSTEMS	ROI1GM 08114-08	BBCB	12,960
VEIS, ARTHUR	THE MACROMOLECULAR STRUCTURE OF COLLAGEN FIBERS	ROI1GM 08222-08	BBCB	33,088
YOUNG, GUY P	ACQUIRED IMMUNITY IN TUBERCULOSIS	ROI1AI 01636-11	ALY	80,154
YOUNG, RICHARD H	GENERAL CLINICAL RESEARCH CENTER	MO1FR 00048-07	CLR	262,733
YOUNG, RICHARD H	GENERAL RESEARCH SUPPORT GRANT	SO1FR 05370-07	NSS	342,479
ZELLER, E ALBERT	MECHANISM OF AMINE OXIDASES AND RELATED ENZYMES	ROI1GM 12671-02	PC	34,754
ZELLER, E ALBERT	CHEMISTRY AND METABOLIC ROLE OF OCULAR ENZYMES	ROI1NB 06252-02	VIS	14,608
INSTITUTION TOTAL	92	3,238,390		

TABLE 2—RESEARCH GRANTS, BY AREA, INSTITUTION, AND PRINCIPAL INVESTIGATOR

INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRG	DOLLARS
ILLINOIS—(CON.)				
PRESBYTERIAN-ST LUKE'S HOSPITAL				
APTER, JULIA T	MECHANICAL PROPERTIES OF TISSUES	RO1GM 14659-02	SGYA	43,616
BEZKOROVAINY, ANATOLY	TRANSFERRIN AND RELATED IRON BINDING PROTEINS	RO1GM 11985-05	PC	18,989
BOGDONOFF, MAURICE L	RADIOLOGIC STUDY OF LUNG EMBOLISM	RO1HE 09269-04	RAD	7,929
CARTON, ROBERT W	MECHANICAL ANALYSIS OF TISSUE ELASTICITY OF THE LUNG	RO1HE 07121-07	CVB	13,279
CHEIFETZ, DAVID I	VISUAL SCANNING PATTERNS IN COPYING DISABILITY	RO1NB 06861-02	EXP	11,860
CLASEN, RAYMOND A	EXPERIMENTAL CEREBRAL INJURY AND EDEMA	RO1NB 03677-07	PTHA	25,014
COHEN, MAYNARD M	PHOSPHOETHANOLAMINE METABOLISM IN DEVELOPING BRAIN	RO1NB 06113-03	NEUB	11,760
COLE, EDMOND R	HYDROLYTIC PROPERTIES OF THROMBIN	RO1HE 10146-03	HEM	23,827
DEINHARDT, FRIEDRICH W	CHARACTERISTICS OF ATTENUATED MUMPS VIRUSES	RO1AI 06652-03	VR	56,961
DYE, WILLIAM S	COOPERATIVE STUDY OF RESULTS OF CARDIAC SURGERY	RO1HE 10439-03	SRC	55,397
EISENSTEIN, REUBEN	PATHOGENESIS OF ARTERIAL CALCIFICATION	RO1HE 06713-07	PTHA	26,808
GARRON, DAVID C	COGNITION & ATTITUDE IN TURNERS SYNDROME	RO1HD 01716-03	MNHA	17,328
GRAETTINGER, JOHN S	VENTRICULAR FUNCTION IN MAN	RO1HE 09923-03	CVB	20,340
HARRISON, WILLIAM H	OCCURRENCE AND MECHANISM OF CATECHOLAMINE OXIDATION	RO1GM 12614-03	BIO	15,310
HARTMANN, J FRANCIS	ELECTRON MICROSCOPY OF CEREBRAL TISSUE	RO1NB 05591-04	NEUB	28,278
HASS, GEORGE M	HUMAN AND EXPERIMENTAL ATHERO-ARTERIOSCLEROSIS	RO1HE 03215-11	PTHA	49,371
HASS, GEORGE M	PATHOLOGY OF ISOLATED MYOFIBRILS	RO1HE 09295-04	PTHA	15,798
HASS, GEORGE M	THE PATHOLOGIC EFFECTS OF LEAD	RO1NB 04872-04S1	PTHA	82
HASS, GEORGE M	THE PATHOLOGIC EFFECTS OF LEAD	RO1NB 04872-05	PTHA	18,720
HAYASHI, JAMES A	STUDIES OF STREPTOCOCCAL CELL WALLS	RO1AI 04777-07	MBC	17,984
HAYASHI, JAMES A	EXTRACELLULAR ENZYMES OF ORAL STREPTOCOCCI	RO1DE 02812-01	OEN	19,755
HENDRICKSON, FRANK R	IN VIVO GROWTH CYCLE MARKERS AND RADIATION EFFECTS	RO1CA 05497-07S1	RAD	626
HENDRICKSON, FRANK R	RADIATION EFFECTS ON CELL KINETICS, NORMAL AND TUMOR	RO1CA 05497-08	RAD	36,546
HENDRY, DEREK P	REINFORCING VALUE OF INFORMATION	RO1GM 14221-02	NP	23,877
JULIAN, ORMAND C	COOPERATIVE STUDY OF RENOVASCULAR HYPERTENSION	RO1HE 06687-07	SRC	46,148
JULIAN, ORMAND C	COOPERATIVE STUDY OF RESULTS OF CARDIAC SURGERY	RO1HE 10437-03	SRC	125,702
KARK, ROBERT M	INTRARENAL BLOOD FLOW IN RENOVASCULAR HYPERTENSION	RO1HE 09851-03	SRC	17,628
KOPPEL, JOHANNES L	RELATION OF PLATELET LIPIDS TO PLATELET ADHESIVENESS	RO1HE 08953-03	HEM	23,640
KORNEL, LUDWIG	STEROID METABOLISM IN HYPERTENSION	RO1HE 11651-02	END	38,530
KUETTNER, KLAUS E	BIOCHEMISTRY OF BONE AND CONNECTIVE TISSUE	RO1AM 09132-04	PC	52,586
LEPPER, MARK H	GENERAL RESEARCH SUPPORT GRANT	SQ1FR 05477-06	NSS	190,109
MATTENHEIMER, HERMANN G W	METABOLIC ASPECTS OF NEPHRON FUNCTION	RO1HE 03912-10	PTHA	51,148
MC DONALD, JAMES H	URINARY BLADDER CARCINOGENESIS IN MAN AND ANIMAL	RO1CA 08857-02	PTHB	23,464
NAJAFI, HASSAN	ROLE OF THE LIVER IN RENOVASCULAR HYPERTENSION	RO1HE 11052-02	SGYA	38,956
OLWIN, JOHN H	METABOLIC EFFECTS OF EDTA THERAPY IN ATHEROSCLEROSIS	RO1HE 09946-03	CVB	23,520
RAFELSON, MAX E, JR	BIOCHEMICAL CHARACTERIZATION OF PLATELET COMPONENTS	RO1HE 07565-06	HEM	23,333
RAY, ROBERT D	A STUDY OF BONE TRANSPLANTS AND IMPLANTS	RO1AM 12527-01	SGYA	41,294
SCHWARTZ, THEODORE B	CARBOHYDRATE, LIPID, PROTEIN AND ELECTROLYTE METABOLISM	PO2AM 05760-07	AMP	48,823
SCHWARTZ, THEODORE B	DIABETIC TREATMENT AND COMPLICATIONS	RO1AM 06739-06	SSS	51,913
STAMLER, JEREMIAH	COOPERATIVE STUDY OF DRUGS AND CORONARY HEART DISEASE	RO1HE 08889-04	SRC	51,416
STARK, LAWRENCE	NEUROLOGICAL NONLINEAR CONTROL SYSTEMS	RO1NB 06197-03	SSS	56,593
STARK, LAWRENCE	MECHANISMS UNDERLYING NEUROLOGICAL CONTROL SYSTEMS	RO1NB 06487-02S1	NEUB	6,974
STARK, LAWRENCE	NEUROPHYSIOLOGICAL INFORMATION CODING	RO1NB 07803-01	NEUB	28,890
TAYLOR, SAMUEL G	EVALUATION OF CHEMOTHERAPEUTIC AGENTS IN HUMAN CANCER	RO1CA 03060-12	PHRB	99,059
TROBAUGH, FRANK E, JR	CORRELATIVE STUDIES OF BONE MARROW VIABILITY	RO1CA 04144-10	HEM	92,400
WEINBERG, MILTON	EFFECTS OF HYPERBARIC OXYGEN ON CEREBRAL AIR EMBOLISM	RO1HE 09555-03	SGYA	13,289
ZUBER, BERT L	BIOENGINEERING STUDIES IN OCULOMOTOR PHYSIOLOGY	RO1NB 07777-01	VIS	20,721
INSTITUTION TOTAL	47	1,725,591		
ST. JOSEPH HOSPITAL				
BERKSON, DAVID M	COOPERATIVE STUDY OF DRUGS AND CORONARY HEART DISEASE	RO1HE 10541-03	SRC	65,255
INSTITUTION TOTAL	1	65,255		
UNIVERSITY OF HEALTH SCIENCES				
ALIVISATOS, SPYRIDON G A	STUDIES ON NUCLEAR RIBOSOMES WITH OLIGONUCLEOTIDES	RO1CA 10143-02	BIO	32,215
BLIVAIS, BEN B	EXPERIMENTAL ALCAPTONURIA AND OCHRONOSIS	RO1AM 05858-06S1	GMA	5,400
BOGDANOVA, LASCA H	OPERANT CEREBRAL ACTIVITY IN CRETINISM	RO1NB 07889-01A1	EXP	43,415
COMBS, C MURPHY	NEUROPHYSIOLOGICAL REGULATION OF LINGUAL MOVEMENT	RO1DE 02683-01	CMS	30,600
COMBS, C MURPHY	CEREBELLAR CORTICOCORTICAL RELATIONS	RO1NB 07142-02	NEUA	15,825
DAVIDSOHN, ISRAEL	EXPERIMENTAL HEMOLYTIC ANEMIA	RO1AM 08705-04	IMB	32,177
DAVIDSOHN, ISRAEL	IMPAIRMENT OF FUNCTIONS OF EPITHELIAL CELLS IN CANCER	RO1CA 10261-01	IMB	21,820
ELIAS, HANS	BASIC STEREOLOGY OF THE LIVER	RO1AM 11225-02	PTHA	29,977
ELIAS, HANS	POSTNATAL GROWTH OF THE KIDNEY	RO1AM 11658-02	PTHA	9,477
ELIAS, HANS	GROSS STEREOLOGY OF THE HUMAN CEREBRUM	RO1NB 07104-02	PTHA	12,350
HOVNIANIAN, AUGUST P	RECONSTRUCTION OF URETER BY FREE BLADDER MUCOSA GRAFT	RO1AM 10576-02	SGYA	4,492
LEVITT, LE ROY P	GENERAL RESEARCH SUPPORT GRANT	SO1FR 05366-07	NSS	247,285
LIJINSKY, WILLIAM	HYDROGENATION OF CARCINOGENS AND BIOLOGICAL ACTIVITY	RO1CA 04249-09S1	PHRB	4,749
LUISADA, ALDO A	BIOPHYSICS OF CARDIAC VIBRATIONS	RO1HE 09350-04	PHY	11,490
LUISADA, ALDO A	ALTITUDE PULMONARY EDEMA-HYPOXIA BLOOD ACCOMMODATION	RO1HE 09527-02S1	CVA	4,780
LYON, IRVING	GUT POTENTIALS AND NA AND SUGAR FLUXES	RO1AM 08359-03S1	PHY	2,248
MARTIN, CHARLES J	CHARACTERISTICS OF PROTEOLYTIC ENZYMES	RO1GM 10902-07	GM	38,959
MC CORMACK, CHARLES E	THE ROLE OF PROGESTERONE IN FACILITATING OVULATION	RO1HD 02199-03	END	7,372

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INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRG	DOLLARS
ILLINOIS—(CON.)				
NICKERSON, JOHN L	TRANSMISSION BETWEEN HEART AND BALLISTOCARDIOGRAPH	R01HE 08615-05	CVB	19,058
SHAFFER, JAMES G	STUDIES ON THE NATURE OF ENTAMOEBIA HISTOLYTICA	R01AI 08004-01S1	TMP	5,823
SHAFFER, JAMES G	STUDIES ON THE NATURE OF ENTAMOEBIA HISTOLYTICA	R01AI 08004-02	TMP	53,930
STRAUS, WERNER	LYSOSOMES AND PHAGOSOMES IN CELL INJURY AND PHYSIOLOGY	R01GM 12123-04	MBY	26,923
INSTITUTION TOTAL 22	660,365			
DE KALB				
NORTHERN ILLINOIS UNIVERSITY				
KRESHECK, GORDON C	PEPTIDE HYDROGEN BOND STRENGTH IN AQUEOUS SOLUTION	R01GM 13623-02	BBC	19,644
INSTITUTION TOTAL 1	19,644			
ELGIN				
ILLINOIS STATE DEPARTMENT OF MH--ELGIN STATE HOSPITAL				
CENTURY, BERNARD	DIET LIPIDS CELL FUNCTIONS & RESPONSES TO DRUGS	R01AM 10823-02	TOX	17,282
HORWITT, MAX K	NUTRITIONAL VARIABLES IN HUMAN METABOLISM	PO2AM 07184-05	AMP	18,390
INSTITUTION TOTAL 2	35,672			
EVANSTON				
INDIVIDUAL GRANT				
CARHART, RAYMOND T	1968 CONGRESSES AUDIOLOGY AND LOGOPEDICS - PHONIATRICS	R13NB 08135-01	NSS	1,000
INSTITUTION TOTAL 1	1,000			
EVANSTON HOSPITAL ASSOCIATION				
BERGER, SHELDON	GENERAL RESEARCH SUPPORT GRANT	S01FR 05629-02	NSS	72,073
DANFORTH, DAVID N	CONNECTIVE TISSUE CHANGES IN CERVICAL EFFACEMENT	R01HD 01173-07	HED	26,347
MC KEEVER, WILLIAM P	CARDIAC OXYGEN UPTAKE IN BEATING & ASYSTOLIC STATES	R01HE 06102-08	CVA	48,929
SHANBERGE, JACOB N	HEPARIN HEPARINOIDES AND BLOOD COAGULATION	R01HE 09122-05	HEM	23,857
SPRINGER, GEORG F	INFLUENZA VIRUS ACTION ON HUMAN RED CELLS	R01AI 05681-06	HEM	29,363
SPRINGER, GEORG F	PROPERTIES OF MONONUCLEOSIS RECEPTOR OF ERYTHROCYTES	R01AI 05682-06	HEM	22,850
TAYLOR, C BRUCE	HUMAN ARTERIOSCLEROSIS WITH COMPARATIVE STUDIES	R01HE 11029-01A1	MET	53,473
INSTITUTION TOTAL 7	276,892			
NORTHWESTERN UNIVERSITY				
ALLREAD, ALBERT L	INVESTIGATION'S OF ORGANOGermanium COMPOUNDS	R01AI 07513-02	MCHB	26,712
BASOLO, FRED	STEREOCHEMISTRY AND REACTIONS OF METAL COMPLEXES	R01GM 07488-06	BBCB	22,276
BENDER, MYRON L	ENZYME MECHANISM	R01HE 05726-08	PC	98,716
BORDWELL, FREDERICK G	HETEROCYCLIC COMPOUNDS RELATED TO CANCER	R01CA 07351-05	MCHB	38,950
BRYAN, JAMES H	EFFECT OF INCONSISTENCY & HYPOCRISY ON MORAL BEHAVIOR	R01HD 03234-01	PCR	18,465
CARHART, RAYMOND T	PSYCHO-PHYSICAL STUDY OF HEARING DISORDERS	R01NB 01310-12	CMS	34,956
COOPER, JOHN A	BIOMEDICAL SCIENCES SUPPORT	S05FR 07028-03	NSS	89,350
DALLOS, PETER J	A STUDY OF COCHLEAR GENERATOR POTENTIALS	R01NB 06730-02	CMS	22,457
DOLE, MALCOLM	DEVELOPMENT OF A MACROMASS SPECTROMETER	R01GM 13194-03	BBCA	45,956
DUNCAN, CARL P	RESEARCH ON HUMAN PROBLEM SOLVING	R01HD 00901-09	NP	21,231
GESTELAND, ROBERT C	INFORMATION TRANSFER IN NONMYELINATED NERVE	R01NB 06063-02	PHY	23,242
GILBERT, LAWRENCE I	BIOCHEMICAL ANALYSIS OF THE ACTION OF INSECT HORMONES	R01AM 02818-10	END	70,979
HOFACKER, G LUDWIG	PROTON TRANSFER IN H-BONDED STRUCTURES	R01GM 13367-03	BBCB	30,334
JACOBS, JOHN E	BIO-MEDICAL ENGINEERING RESEARCH PROGRAM PROJECT	PO1GM 15418-06A1	GMP	315,396
JACOBS, JOHN E	ULTRASOUND VISUALIZATION SYSTEM FOR CLINICAL USE	R01GM 08522-06	BBC	30,531
JONES, RICHARD W	DYNAMICS OF THE VISUAL SYSTEM	R01NB 02165-08S1	VIS	2,811
KLOTZ, IRVING M	STABILITY OF HYDROGEN BONDS IN PROTEINS	R01GM 09280-06S1	BBC	809
KLOTZ, IRVING M	STABILITY OF HYDROGEN BONDS IN PROTEINS	R01GM 09280-07	BBC	36,522
KLOTZ, IRVING M	MOLECULAR BIOLOGY OF HEMERYTHRIN AND HEMOCYANIN	R01HE 08299-05	BIO	51,311
LETSINGER, ROBERT L	SYNTHESIS OF POLYNUCLEOTIDES ON POLYMER SUPPORTS	R01GM 10265-06	MCHA	55,192
LIPPINCOTT, JAMES A	EFFECTS OF NUCLEIC ACIDS ON PLANT TISSUES	R01CA 05387-08	GEN	53,811
LOACH, PAUL A	PRIMARY REDOX CHANGES IN PHOTOSYNTHESIS	R01GM 11741-03S1	BBCA	30,060
LORAND, L	COAGULATION OF BLOOD	R01HE 02212-13	HEM	65,520
MARSHALL, JAMES A	SESQUITERPENE TOTAL SYNTHESSES	R01AI 04965-06	MCHA	18,161
NEUHAUS, FRANCIS C	BIOSYNTHESIS OF BACTERIAL CELL WALL COMPONENTS	R01AI 04615-07	MCHB	57,855
NEUHAUS, FRANCIS C	AMINO ACID ANALYZER FOR BIOCHEMICAL RESEARCH	R01HE 11119-07	BIO	13,747
NOLL, HANS	REPLICATION OF INFLUENZA VIRUS	R01AI 06672-04	VR	58,813
RUBENSTEIN, ALBERT H	EXPERIMENTS ON INFORMATION ENVIRONMENTS OF RESEARCHERS	R01LM 00098-03	CSP	15,118
SEKULER, ROBERT W	MOVEMENT AND CONTOUR PROCESSES IN HUMAN VISION	R01NB 06354-03	VIS	12,724
TILLMAN, TOM W	PROBLEMS IN AUDITORY MASKING	R01NB 07559-01	CMS	32,942
WELKER, NEIL E	BIOCHEMICAL STUDIES ON THERMOPHILIC BACTERIA	R01AI 06382-04	MBC	28,987
INSTITUTION TOTAL 31	1,423,934			
ST. FRANCIS HOSPITAL				
HOVNANIAN, AUGUST P	RECONSTRUCTION OF URETER BY FREE BLADDER MUCOSA GRAFT	R01AM 12786-01	SGYA	7,028
INSTITUTION TOTAL 1	7,028			
HINES				
LOYOLA UNIVERSITY				
PALMER, JERRY L	CHEMICAL NATURE OF IMMUNOGLOBULINS	R01AI 08040-01	ALY	34,532
REMENCHIK, ALEXANDER P	EFFECT OF EXERCISE UPON THE LIFE SPAN OF HYPERTENSIVES	R01HE 10562-02S1	AFY	3,698

TABLE 2—RESEARCH GRANTS, BY AREA, INSTITUTION, AND PRINCIPAL INVESTIGATOR

INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRG	DOLLARS
ILLINOIS—(CON.)				
INSTITUTION TOTAL	2	38,230		
NORMAL				
ILLINOIS STATE UNIVERSITY AT NORMAL				
FREHN, JOHN L	CELLULAR ADAPTATION TO COLD EXPOSURE AND HIBERNATION	R01GM 13358-03	MET	14,508
HARRISON, HOWARD N	BASIC STUDIES IN TISSUE TYPING	R01AI 08451-01	IMB	14,812
SAYEED, MOHAMMED M	CHARACTERISTICS OF INTESTINAL ENZYMES WITH AGING	R01AM 11945-01	GMA	11,882
INSTITUTION TOTAL	3	41,202		
OAK PARK				
WEST SUBURBAN HOSPITAL				
KENT, GEOFFREY	IRON EXCESS AND TISSUE INJURY	R01AM 05986-06S1	NSS	15,003
MUEHRCKE, ROBERT C	RELATION OF KIDNEY TO HYPERTENSION	R01HE 09770-03	CVA	32,038
INSTITUTION TOTAL	2	47,041		
PEORIA				
BRADLEY UNIVERSITY				
STEINER, WILLIAM G	CONTINGENT CORTICAL D C CHANGES IN RETARDED CHILDREN	R01HD 03488-01	EXP	23,063
INSTITUTION TOTAL	1	23,063		
URBANA				
ILLINOIS UNIVERSITY OF				
ABBOTT, BERNARD C	COMPARATIVE CARDIOVASCULAR PHYSIOLOGY	R01HE 08218-06	PHY	44,533
ABBOTT, BERNARD C	THE ENERGETICS OF EXCITABLE MEMBRANES	R01NB 07475-01	PHY	21,153
ARGOUDELIS, CHRISTOS J	BIOLOGICAL FUNCTIONS OF VITAMIN B6	R01AM 00257-17	NTN	34,304
BALDWIN, JOHN E	MECHANISMS OF CYCLOREACTIONS	R01GM 14381-02	MCHA	22,596
BEAK, PETER A	HETEROAROMATIC STUDIES	R01GM 12595-03	MCHA	16,896
BLACK, LINDSAY M	FUNDAMENTAL RESEARCH ON PLANT VIRUSES	R01AI 06392-04	VR	56,743
BLOOMFIELD, VICTOR A	SOLUTION PROPERTIES AND SYNTHESIS OF NUCLEIC ACIDS	R01GM 12555-03S1	BBCA	308
BLOOMFIELD, VICTOR A	SOLUTION PROPERTIES AND SYNTHESIS OF NUCLEIC ACIDS	R01GM 12555-04	BBCA	39,116
BOGARTZ, RICHARD S	ATTENTION AND MEMORY IN YOUNG CHILDREN	R01HD 03574-01	EXP	17,086
BRANDLY, C A	GENERAL RESEARCH SUPPORT GRANT	S01FR 05460-06	NSS	138,178
BROQUIST, HARRY P	MECHANISM OF LYSINE BIOSYNTHESIS IN YEAST	R01AM 03156-09	PC	31,992
BUETOW, DENNIS E	CELLULAR AND COMPARATIVE BIOLOGY OF AGING	P01HD 03163-01	HDP	86,027
CAMPBELL, L LEON	METABOLIC STUDIES ON SULFATE REDUCING BACTERIA	R01AI 04673-07	BMB	42,798
CAMPBELL, L LEON	STUDIES ON THE MOLECULAR BASIS OF THERMOPHILY	R01AI 06885-02S1	MBC	1,828
CAMPBELL, L LEON	STUDIES ON THE MOLECULAR BASIS OF THERMOPHILY	R01AI 06885-03	MBC	28,866
CARTER, HERBERT E	METABOLISM OF THE SPHINGOLIPIDS	R01NB 00574-15	PC	33,220
CLARK, JOHN M, JR	THE MECHANISM OF MESSENGER-RNA TRANSLATION	R01GM 08647-07	PC	19,038
COATES, ROBERT M	REARRANGEMENTS RELATING TO TERPENE BIOGENESIS	R01GM 13956-03	MCHA	13,560
COATES, ROBERT M	TRICYCLOVETIVENE - STEREOCHEMISTRY AND SYNTHESIS	R01GM 14346-02	MCHA	11,896
CONRAD, H EDWARD	BIOSYNTHESIS OF BACTERIAL HETEROPOLYSACCHARIDES	R01AI 05696-05	BIO	21,259
DE MOSS, RALPH D	SELF CONTROLLED BIOLOGICAL SYSTEMS	R01AI 02971-09	PC	27,174
DE MOSS, RALPH D	STRUCTURE, ACTION, AND FUNCTION OF TRYPTOPHANASE	R01AM 11696-01	PC	40,353
DRAKE, JOHN W	VIRUS GROWTH AND GENETICS	R01AI 04886-06	GEN	21,826
DRAPER, HAROLD H	METABOLISM OF PEROXIDES AND HYDROXY ACIDS	R01NB 04201-06	MET	31,185
DUCOFF, HOWARD S	RECOVERY IN IRRADIATED INSECTS	R01GM 10208-06	TMP	17,201
DUNN, FLOYD	ULTRASONIC ABSORPTION BY BIOLOGICAL MATERIALS	R01GM 12281-04	SSS	32,630
DZIUK, PHILIP J	POSITION AND NUMBER OF EMBRYOS ON PREGNANCY IN SWINE	R01HD 01987-03	HED	20,028
FITZGERALD, PAUL R	ENDOGENOUS DEVELOPMENT OF LABORATORY RABBIT COCCIDIA	R01FR 00410-01	AR	34,385
FRAENKEL, GOTTFRIED S	NUTRITION OF INSECTS	R01AI 00533-17	TOX	34,235
FRIEDMAN, STANLEY	BIOSYNTHESIS AND PHYSIOLOGICAL ROLE OF A.A -TREHALOSE	R01AI 06345-04	TMP	40,655
FRY, WILLIAM J	ORGANIZATION OF CELLS IN TISSUE. QUANTITATIVE ASPECTS	R01NB 05821-03	SSS	236,875
GORSKI, JACK	MECHANISM OF ACTION AND GONADOTROPINS	R01AM 06327-07	END	58,206
GOTTLIEB, DAVID	ENZYME ACTIVITIES IN THE DEVELOPMENT OF FUNGI	R01HD 00988-04	MBC	56,588
GOVINDJEE	PHOTOSYNTHETIC MECHANISMS OF GREEN PLANTS	R01GM 13913-03	BBC	43,656
GUNSALUS, IRWIN C	METABOLIC MECHANISMS	R01AM 00562-15	PC	93,169
HAGEMAN, RICHARD H	BIOCHEMICAL BASED BREEDING FOR HIGH PROTEIN GRAINS	R22AM 12507-01	SSS	35,586
HAGER, LOWELL P	ENZYMATIC ACTIVATION MECHANISMS	R01GM 07768-08	PC	45,018
HAIGHT, GILBERT P, JR	REACTIONS OF OXY-IONS IN AQUEOUS SOLUTION	R01GM 14348-02	MCHB	28,479
HOOVER, ARTHUR L	GENETICS AND PHYSIOLOGY OF HOST-PARASITE INTERACTIONS	R01AI 02709-09	GEN	35,876
KALLIO, R E	BIOMEDICAL SCIENCES SUPPORT	S05FR 07030-03	NSS	146,059
KALLIO, REINO E	BIOCHEMISTRY OF HIGHLY BRANCHED FATTY ACIDS AND ALKANES	R01GM 14012-02	PC	18,740
KAPLAN, SAMUEL	THE INDUCTION & BIOGENESIS OF SUBCELLULAR ORGANELLES	R01GM 15590-02	CB	17,430
KEARNS, CLYDE W	INSECT CHOLINESTERASE	R01GM 07891-07S1	TOX	447
KIRK, EDWARD S	THE EFFECTIVENESS OF CORONARY BLOOD FLOW	R01HE 10788-02	CVA	29,743
KITZMILLER, JAMES B	GENETICS OF ANOPHELINE MOSQUITOES	R01AI 03486-08	GEN	29,640
KUMMEROW, F A	FUNCTION OF FATTY ACID ISOMERS IN SERUM COMPONENTS	R01HE 10779-02	MET	30,374
LEONARD, NELSON J	CHEMISTRY OF PURINES, ISONUCLEOSIDES AND ALKALOIDS	R01GM 05829-10	MCHA	68,593
LEVEILLE, GILBERT A	METABOLIC AND ENZYMATIC EFFECTS OF MEAL-FEEDING	R01AM 10774-02	NTN	26,062
LEVINE, NORMAN D	MICROMETEOROLOGY AND ECOLOGY OF PARASITIC NEMATODES	R01AI 06197-05	TMP	54,093
MARTIN, JAMES C	STRUCTURE EFFECTS ON REACTIVITY OF ORGANIC COMPOUNDS	R01GM 12296-04	MCHA	14,148
MISTRY, SORAB P	BIOCHEMICAL STUDIES ON BIOTIN	R01AM 08373-05	MET	21,295
NALBANDOV, A V	TRAVEL EXPENSES TO INTL SYMP. COMPARATIVE ENDOCRINOLOGY	R13AM 11642-01	END	18,250

TABLE 2—RESEARCH GRANTS, BY AREA, INSTITUTION, AND PRINCIPAL INVESTIGATOR

INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRG	DOLLARS
ILLINOIS—(CON.)				
NALBANDOV, ANDREW V	ENDOCRINOLOGY OF REPRODUCTION OF DOMESTIC ANIMALS	RO1HD 03043-06	REB	89,211
NANNEY, DAVID L	GENETIC STUDIES WITH TETRAHYMENA	RO1GM 07779-07S1	GEN	201
NANNEY, DAVID L	GENETIC STUDIES WITH TETRAHYMENA	RO1GM 07779-08	GEN	43,080
NARAYAN, KRISHNAMURTHI A	THE SYNERGISTIC EFFECT OF HEATED FAT ON A CARCINOGEN	RO1CA 01932-14S1	PHRB	14,846
NISHIDA, TOSHIRO	CHOLESTEROL-LIPOPROTEIN METABOLISM IN ATHEROSCLEROSIS	RO1HE 03063-11	MET	36,989
PAUL, IAIN C	X-RAY STUDIES ON ORGANIC AND BIOLOGICAL MOLECULES	RO1GM 12470-04	BBCB	51,427
PILCHARD, EDWIN I	RESISTANCE TO VIRAL DISEASE	RO1AI 06987-03	VR	16,235
PIRKLE, WILLIAM H	STUDY OF ENANTIOMERS IN ASYMMETRIC ENVIRONMENTS	RO1GM 14518-02	MCHB	13,718
RASMUSEN, BENJAMIN A	THE GENETICS OF BLOOD GROUPS IN SWINE	RO1GM 08752-07	GEN	24,424
REICHMANN, MANFRED E	STRUCTURE OF SATELLITE TOBACCO VIRUS AND GENETIC CODE	RO1GM 12444-03S1	VR	946
REICHMANN, MANFRED E	STRUCTURE OF SATELLITE TOBACCO VIRUS AND GENETIC CODE	RO1GM 12444-04	VR	92,374
RINEHART, KENNETH L, JR	CHEMISTRY AND BIOCHEMISTRY OF CERTAIN ANTIBIOTICS	RO1AI 01278-12	MCHA	55,204
RINEHART, KENNETH L, JR	MASS SPECTRA OF ANTIBIOTICS AND RELATED COMPOUNDS	RO1AI 04769-07	MCHB	54,121
RISTIC, MIODRAG	SOLUBLE BLOOD PARASITE ANTIGENS	RO1AI 03315-09	TMP	46,872
RISTIC, MIODRAG	IMMUNOLOGIC MECHANISMS OF BLOOD AND VASCULAR DISORDERS	RO1HE 10609-03	TMP	25,073
SALAFSKY, BERNARD P	EXTENT OF NEURONAL CONTROL ON SKELETAL MUSCLE	RO1NB 05679-04	NEUB	26,134
SCHROEPPER, GEORGE J, JR	INTERMEDIARY METABOLISM OF STEROLS	RO1HE 09501-05	END	44,501
SCOTT, KEITH G	SHORT-TERM MEMORY IN THE RETARDED CHILD	RO1HD 02898-02	DBR	21,366
SHAW, PAUL D	BIOSYNTHESIS OF NATURALLY OCCURRING NITRO COMPOUNDS	RO1AI 04258-07	MBC	37,912
SILVERMAN, PAUL H	PARASITIC HELMINTH IMMUNITY	RO1AI 05910-05	TMP	72,940
SIMON, JOSEPH	THE LEUKEMIA-LYMPHOSARCOMA SYNDROME OF CATTLE AND SWINE	RO1CA 06679-05S1	HEM	22,464
SNYDER, HAROLD R	SYNTHESIS AND CHEMISTRY OF THE THIENOPYRROLES	RO1CA 08663-03	MCHB	18,245
SPIEGELMAN, SOL	SYNTHESIS AND MAINTENANCE OF INTRACELLULAR ENZYMES	RO1CA 01094-19	PC	136,740
SPRAGUE, ROBERT L	HYPERACTIVITY IN CHILDREN	RO1HD 03598-01	DBR	46,159
SWEENEY, DARYL C	CATECHOLAMINE FUNCTION IN MOLLUSCAN NERVOUS SYSTEMS	RO1NB 06868-02	NEUB	23,876
SYPHERD, PAUL S	STRUCTURE AND FUNCTION OF RIBOSOMES	RO1GM 12686-03	BIO	9,830
TODD, LEE J	DERIVATIVE CHEMISTRY OF ONE-CARBON CARBORANES	RO1CA 10576-01	MCHB	12,898
TWARDOCK, A ROBERT	PLACENTAL TRANSFER OF MINERAL ELEMENTS	RO1HD 00727-05	HED	23,797
VOSS, EDWARD W, JR	REACTIVITY AND BIOSYNTHESIS OF IGM ANTIBODIES	RO1AI 08288-01	ALY	22,500
WACHSMAN, JOSEPH T	UNBALANCED GROWTH A MOLECULAR BASIS OF DEATH	RO1HD 02566-10	PC	27,535
WATRACH, ADOLF M	THE NATURE AND SPECIFICITY OF INCLUSION BODIES	RO1AI 03820-08	VR	32,526
WATRACH, ADOLF M	THE VIRUS-CELL RELATIONSHIP IN PAPILLOMA	RO1CA 08756-03	VR	29,401
WEBER, GREGORIO	PROTEIN CONFIGURATION BY FLUORESCENCE TECHNIQUES	RO1GM 11223-06	BBCB	98,179
WEBER, GREGORIO	STRUCTURE AND FUNCTION OF BIOLOGICAL MACROMOLECULES	RO1HE 14611-02	BBCB	29,991
WEIR, MORTON W	PREDICTABILITY AND EXPECTANCY IN CHILDREN S LEARNING	RO1HD 00874-07	DBR	13,329
WILLIS, JOHN S	ION TRANSPORT IN TISSUES OF HIBERNATING MAMMALS	RO1GM 11494-05	PHY	29,943
WOESE, CARL R	STUDIES ON BACTERIAL SPORE GERMINATION	RO1AI 06457-04	MBC	30,000
WOLFE, RALPH S	STRUCTURE OF A BACTERIAL PROTEOLYTIC ENZYME	RO1AI 07944-02	BIO	23,766
WOODY, ROBERT W	OPTICAL PROPERTIES OF BIOLOGICAL MACROMOLECULES	RO1GM 13910-03	BBC	29,702
INSTITUTION TOTAL	91	3,517,851		
STATE TOTAL	694	29,020,000		
INDIANA				
BLOOMINGTON				
INDIANA UNIVERSITY				
BARNES, CHARLES D	CORRELATES OF PHOTIC AND ELECTRIC RETINAL INDUCTION	RO1NB 06810-01A1	VIS	24,290
BILLMAN, JOHN H	ARALKYL ALDEHYDES AND DERIVATIVES AS ANTITUMOR AGENTS	RO1CA 10249-02	MCHB	24,019
BOGDANOV, EMANUEL M	ENDOCRINE INFLUENCING CENTERS IN THE HYPOTHALAMUS	RO1NB 03371-08	NEUA	55,659
BRIGGS, ROBERT W	DEVELOPMENTAL GENETICS OF AMPHIBIA	RO1GM 05850-10	CBY	53,160
CAMPAIGNE, ERNEST E	SYNTHESIS OF SULFUR ANALOGS OF INDOLE ALKALOIDS	RO1GM 10366-06	MCHA	45,992
CAMPBELL, C BOYD	DIRECTIONAL DETECTION	RO1NB 07357-02	CMS	9,717
CORDES, EUGENE H	SECONDARY VALENCE FORCE CATALYSIS	RO1AM 08232-05	MCHA	37,220
DAY, HARRY G	SIGNIFICANCE OF BORON IN ANIMALS	RO1AM 08209-05	NTN	29,809
DE VALOIS, RUSSELL L	ELECTROPHYSIOLOGY OF COLOR VISION	RO1NB 02274-09	VIS	50,892
FRASER, DEAN	REPRODUCTION OF BACTERIOPHAGE IN CELL FREE SYSTEMS	RO1AI 01854-10S1	BIO	2,719
FRASER, DEAN	BIOCHEMICAL AND GENETIC RESOLUTION OF BACTERIOPHAGE	RO1CA 02772-13	BIO	23,541
GEBHARD, PAUL H	YOUTH CULTURES AND ASPECTS OF THE SOCIALIZATION PROCESS	RO1HD 02257-02	DBR	70,971
GURD, FRANK R	STRUCTURE AND REACTIVITY OF PROTEINS AND LIPOPROTEINS	RO1HE 05556-08	BBCA	74,934
HAUROWITZ, FELIX	METABOLIC INTERRELATIONS BETWEEN BODY PROTEINS	RO1GM 10852-19	BIO	20,017
JENKINS, W TERRY	PURIFICATION AND CHARACTERIZATION OF TRANSAMINASES	RO1HE 11113-03	PC	57,445
MAHLER, HENRY R	THE BIOSYNTHESIS OF RESPIRATORY ENZYMES	RO1GM 12228-05	PC	74,160
MERRITT, LYNNE L JR	BIOMEDICAL SCIENCES SUPPORT	S05FR 07031-03	NSS	106,072
MURRAY, RAYMOND G	FINE STRUCTURE OF TASTE BUDS AND RELATED RECEPTORS	RO1NB 07472-01	NEUB	40,062
OST, JOHN W P	CLASSICAL CONDITIONING IN THE DOG	RO1HD 00951-06	EXP	21,800
PUTNAM, FRANK W	ABNORMAL PROTEINS IN MULTIPLE MYELOMA	RO1CA 08497-03	PC	88,929
ROSTORFER, HOWARD H	FUNCTIONS OF THE HYPOXIC KIDNEY	RO1HE 05625-07	PHY	20,825
SHINER, V J JR	DEUTERIUM ISOTOPE EFFECTS IN BIOCHEMICAL REACTIONS	RO1GM 08502-08	BIO	31,897
SONNEBORN, TRACY M	NORMAL AND ABNORMAL CELL GROWTH AND HEREDITY	RO1GM 15410-01	GEN	92,496
SPANGENBERG, DOROTHY B	STATOLITH DIFFERENTIATION IN AURELIA JELLYFISH	RO1DE 02619-02	MBY	34,574
SPANGENBERG, DOROTHY B	INITIATION OF METAMORPHOSIS IN AURELIA	RO1HD 03485-02	SSS	16,927
STARR, RICHARD C	ISOLATION AND PRESERVATION OF ALGAE	P06FR 00141-05	GEN	15,331
STRICKHOLM, ALFRED	MEMBRANE EXCITATION AND CONTRACTION COUPLING IN MUSCLE	RO1GM 14907-02	PHY	20,595

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INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRG	DOLLARS
INDIANA—(CON.)				
TAYLOR, MILTON W	HOST-VIRAL RELATIONSHIPS IN BACTERIAL & MAMMALIAN CELLS	RO1CA 10417-01	VR	38,156
VANCE, WILLIAM B	CHEMORECEPTION REGULATION OF FOOD AND FLUID INTAKE	RO1NB 05940-03	CMS	13,711
WEGENER, JONATHAN G	STUDIES OF BRAIN FUNCTION IN AUDITORY BEHAVIOR	RO1NB 06587-03	NEUA	34,046
WEHRY, EARL L	PHOTOCHEMISTRY OF TRANSITION-METAL COMPLEXES	RO1AM 11081-02	MCHB	17,332
WEINBERG, EUGENE D	SENESCENCE OF MICROBIAL CELL POPULATIONS	RO1HD 03038-01	MBC	20,999
WENKERT, ERNEST	ALKALOID SYNTHESSES	RO1GM 11571-04S1	MCHB	1,266
WENKERT, ERNEST	ALKALOID SYNTHESSES	RO1GM 11571-05	MCHB	54,600
INSTITUTION TOTAL 34	1,324,163			
BLUFFTON				
CAYLOR-NICKEL RESEARCH FOUNDATION				
JACKSON, CHARLES E	GENETIC STUDIES IN NORTHEASTERN INDIANA	RO1AM 02901-09	EDC	33,507
INSTITUTION TOTAL 1	33,507			
BUTLERVILLE				
INDIANA STATE DEPARTMENT OF MH--MUSCATATUCK STATE HOSPITAL AND TRAINING CENTER				
CULLEY, WILLIAM J	NUTRITION AND GROWTH OF MENTALLY RETARDED CHILDREN	RO1HD 00088-05	NTN	22,435
INSTITUTION TOTAL 1	22,435			
CRAWFORDSVILLE				
WABASH COLLEGE				
COLE, THOMAS A	BIOCHEMISTRY OF METAMORPHOSING DROSOPHILA	RO1GM 11860-05	GEN	3,655
INSTITUTION TOTAL 1	3,655			
INDIANAPOLIS				
INDIANA UNIVERSITY				
ABEL, FRANCIS L	REGULATION OF VENAL CAVAL BLOOD FLOW	RO1HE 08042-06	PHY	14,059
ABEL, FRANCIS L	HEMODYNAMIC FACTORS IN HEMORRHAGIC SHOCK	RO1HE 10659-02	CVA	26,725
BAUER, DIETRICH C	BIOSYNTHESIS OF MACROGLOBULIN ANTIBODIES	RO1AI 05740-05	ALY	22,320
BECK, LYLE V	IN VIVO LOCALIZATION AND METABOLISM OF INSULIN	RO1AM 05980-07	END	11,101
BECK, LYLE V	ROLE OF SH AND SS ON LIVING CELLS	RO1AM 05981-06S1	MET	8,268
BIXLER, DAVID	A GENETIC AND BIOCHEMICAL STUDY OF DENTAL CARIES RESIST	RO1DE 02539-01A1	DEN	39,979
BUCCI, ENRICO	INTERACTIONS OF A AND B CHAINS OF HUMAN HEMOGLOBIN	RO1HE 10785-02	BBCA	20,670
CHALLONER, DAVID R	PATHOPHYSIOLOGIC MECHANISMS IN HYPERMETABOLIC STATES	RO1AM 11805-01	MET	17,054
CHRISTIANSEN, PHILIP A	THE ABSORPTION OF AMINO ACIDS BY THE SMALL INTESTINE	RO1AM 05932-07	GM	27,562
CHRISTIANSEN, PHILIP A	PREVENTION OF HEPATITIS AFTER CARDIOVASCULAR SURGERY	RO1HE 10336-02	SRC	18,159
CONNELLY, PATRICK M	DIABETES MELLITUS INCIDENCE AND MODE OF INHERITANCE	RO1AM 09867-03	GEN	44,673
DEXTER, RICHARD N	ADRENAL LIPIDS AND STEROIDOGENESIS	RO1AM 11850-01	END	18,734
DISCHE, MARIA R	ANTIGENIC CONSTITUENTS OF GLOMERULAR BASEMENT MEMBRANE	RO1AM 12167-01	IMB	9,927
DYKEN, MARK L, JR	CEREBRAL VASCULAR DISEASE CLINICAL RESEARCH CENTER	P02NB 06793-02	NBPA	188,062
FEIGENBAUM, HARVEY	CARDIOVASCULAR STUDIES USING REFLECTED ULTRASOUND	RO1HE 09815-03	CVB	14,002
FISHER, DONALD D	IND UNIV MEDICAL CENTER RESEARCH COMPUTER PROGRAM	P07FR 00162-04	COM	105,173
FRAYSER, REGINA	STUDY OF THE RETINAL CIRCULATION	RO1NB 04285-07	VIS	8,664
FRIEDMAN, JULIUS J	PERIPHEROVASCULAR DYNAMICS IN SHOCK	RO1HE 04684-08S1	CVA	34,500
FRIEDMAN, JULIUS J	PERIPHEROVASCULAR DYNAMICS IN SHOCK	RO1HE 04684-09	CVA	22,710
GIBSON, DAVID M	FATTY ACID BIOSYNTHESIS	RO1HE 04219-10	PC	45,574
GOLDBERG, ALAN	ENZYMATIC ASSAY OF ACETYLCHOLINE	RO1NB 07970-01	PHRA	18,910
GUTHRIE, GEORGE D	CONTROL OF THE TRANSFER OF BIOLOGICAL INFORMATION	RO1AI 07188-03	VR	31,232
HADD, HARRY E	STEROID GLUCURONIDES	RO1AM 08486-05	END	28,289
HAMILTON, JEAN A	SUBSTRATE COMPLEXES WITH DEXTRINS	RO1GM 15594-02	BBCA	11,409
HELMER, OSCAR M	RENIN AND ETIOLOGY OF NA RETENTION AND HYPERTENSION	RO1HE 09730-03S1	CVA	909
HELMER, OSCAR M	RENIN AND ETIOLOGY OF NA RETENTION AND HYPERTENSION	RO1HE 09730-04	CVA	33,642
HICKAM, JOHN B	MECHANISMS AND THERAPY OF CIRCULATORY DISEASE	P01HE 06308-08	HEP	644,085
HICKAM, JOHN B	CARDIOPULMONARY FUNCTION	RO1HE 04080-10	PHY	38,931
HIGGINS, JAMES T, JR	RENAL HEMODYNAMICS AND SODIUM EXCRETION	RO1HE 11638-01	GMB	27,612
HINE, MAYNARD K	GENERAL RESEARCH SUPPORT GRANT	S01FR 05312-07	NSS	134,132
HODES, M E	BIOCHEMICAL STUDIES ON THE SHOPE RABBIT PAPILLOMA	RO1CA 08120-04	VR	48,997
HOLMQUIST, EMILY	SUPPORT TO FACULTY RESEARCH DEVELOPMENT	RO2NU 00206-02	NR	37,403
INGRAHAM, JOSEPH S	FORMATION OF ANTIBODIES BY INDIVIDUAL CELLS	RO1AI 06057-05	ALY	25,440
JERSILD, RALPH A, JR	CELLULAR SITES OF GLYCERIDE AND CHYLOMICRON SYNTHESIS	RO1AM 11721-01	MBY	13,262
JOHNSTON, C CONRAD JR	GENERAL CLINICAL RESEARCH CENTER	M01FR 00057-06	CLR	255,537
JOHNSTON, CYRUS C	STUDIES OF METABOLISM OF HUMAN BONE	RO1AM 07126-06	GMB	63,496
JUDSON, WALTER E	RENIN-ANGIOTENSIN SYSTEM IN MAN	RO1HE 02961-11	CVA	29,158
KILSHEIMER, GRACE S	NATURE AND ROLE OF CARDIAC LIPASE	RO1HE 11863-01	MET	25,495
KUSANO, KIYOSHI	ELECTROPHYSIOLOGY OF MEDULLATED NERVES	RO1NB 06968-02	PHY	17,098
LARAMORE, WARD	COOPERATIVE STUDY OF DRUGS AND CORONARY HEART DISEASE	RO1HE 11038-02	SRC	71,820
MAICKEL, ROGER P	PLACENTAL TRANSFER OF DRUGS	RO1HD 03037-01	PHRA	26,038
MANFREDI, FELICE	CARBON DIOXIDE TRANSPORT MECHANISMS	RO1HE 08788-05	CVB	15,895
MEALEY, JOHN, JR	CHEMOTHERAPY OF INTRACRANIAL NEOPLASMS	RO1CA 06145-06S1	PHRB	10,924
MEALEY, JOHN, JR	CHEMOTHERAPY OF INTRACRANIAL NEOPLASMS	RO1CA 06145-07A1	PHRB	30,104
MERRITT, A DONALD	FACTORS AFFECTING DENTAL VARIATION IN POPULATION	RO1DE 01729-05S1	EDC	3,202
MERRITT, DORIS H	GENERAL RESEARCH SUPPORT GRANT	S01FR 05371-07	NSS	381,900
MITCHELL, DAVID F	TETRACYCLINES, BONE, TEETH AND DENTAL MATERIALS	RO1DE 02198-04	DEN	10,500

TABLE 2—RESEARCH GRANTS, BY AREA, INSTITUTION, AND PRINCIPAL INVESTIGATOR

INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRG	DOLLARS
INDIANA—(CON.)				
MOORE, WARD W	EFFECTS OF STRESS ON LH RELEASE	ROIHO 02608-11	REB	2,630
MOREY, EMILY R	SPECIFICITY OF THYROCALCITONIN ACTION	ROIAM 11324-02	GMB	13,362
MORGAN, CARL R	ENDOCRINE FUNCTION OF NEURO-INSULAR COMPLEXES	ROIAM 11548-02	END	17,435
NASH, FRANKLIN D	RENAL MEDULLARY BLOOD FLOW AND URINARY CONCENTRATION	ROIHE 08055-05S1	PHY	872
NASH, FRANKLIN D	RENAL MEDULLARY BLOOD FLOW AND URINARY CONCENTRATION	ROIHE 08055-06	PHY	27,593
NASH, FRANKLIN D	REGULATION OF BLOOD ADH	ROIHE 10401-03	CVA	20,581
NICOLL, PAUL A	INTRAVASCULAR PRESSURES AND FLOW ACROSS CAPILLARIES	ROIHE 08618-04S1	PHY	7,242
NICOLL, PAUL A	INTRAVASCULAR PRESSURES AND FLOW ACROSS CAPILLARIES	ROIHE 08618-05	PHY	26,300
NIEDERPRUEM, DONALD J	REGULATION OF BASIOSPORE GERMINATION	ROIAI 04603-07	BM	14,872
OCHS, SIDNEY	STUDIES OF DIRECT CORTICAL RESPONSES	ROIHB 01993-09	PHY	33,925
PALMER, CATHERINE G	HUMAN CYTOGENETICS	ROIHD 00358-06	GEN	23,390
PARADISE, RAYMOND R	EFFECTS OF ANESTHETICS ON HEART METABOLISM	ROIHE 07718-06	PHRA	19,861
PHILLIPS, RALPH W	PROPERTIES AND BEHAVIOR OF DENTAL MATERIALS	ROIDE 00433-12	DEN	39,835
PHILLIPS, RALPH W	ACIDITY OF SETTING CEMENT BY USE OF PH DETERMINATIONS	ROIDE 01876-06	DEN	35,788
REITAN, RALPH M	PSYCHOLOGICAL MEASUREMENTS RELATED TO BRAIN LESIONS	ROIHB 01468-11	MNHA	28,660
REITAN, RALPH M	PSYCHOLOGICAL CHANGES AND CEREBRAL LESIONS	ROIHB 05211-05	EXP	24,216
REITAN, RALPH M	PSYCHOLOGICAL DEFICITS IN CEREBRAL VASCULAR DISEASE	ROIHB 07178-02	EXP	35,520
ROESKE, ROGER W	STUDIES ON TRYPSINOGEN AND MYOGLOBIN	ROIHM 10591-06	BIO	20,640
ROSS, ALEXANDER T	STUDY OF ANEURYSMS AND ACUTE SUBARACHNOID HEMORRHAGE	ROIHB 04347-06	SSS	26,061
ROSS, JOSEPH C	FACTORS WHICH ALTER PULMONARY CAPILLARY BLOOD VOLUME	ROIHE 06228-07	CVB	35,076
ROTHE, CARL F	CARDIAC FUNCTION AND VENOUS PRESSURE CONTROL IN SHOCK	ROIHE 07723-06	PHY	13,495
SCHULZ, ARTHUR R	ENZYMIC REACTIONS IN THYROID HORMONE BIOSYNTHESIS	ROIHM 08944-04	END	20,422
SELKURT, EWALD E	MECHANISM OF FAILURE OF THE PRIMATE KIDNEY IN SHOCK	ROIHE 09553-03	PHY	38,831
SHAFFER, WILLIAM G	TISSUE CULTURE APPLICATIONS TO DENTAL RESEARCH	ROIDE 01333-07	DEN	21,400
SHUMACKER, HARRIS B, JR	SURGICAL CARDIOVASCULAR RESEARCH	ROIHE 02035-13	SGYA	72,274
SHUMACKER, HARRIS B, JR	IMPLANTABLE ELECTROHYDRAULIC ARTIFICIAL HEART	ROIHE 08826-05	SGYB	226,546
STANDISH, S MILES	ORAL STRIATED MUSCLE PATHOPHYSIOLOGY	ROIDE 02822-01	PTHA	25,850
STEIN, RITA F	DEVELOPMENT AND USE OF AUTOMATED NURSE NOTES	R2INU 00290-01	NR	14,599
WAGLE, SHREEPAD R	REGULATION OF AMINO ACID AND PROTEIN METABOLISM	ROIAM 04790-08	MET	27,570
WAGLE, SHREEPAD R	PATHOLOGICAL FACTORS IN INSULIN BIOSYNTHESIS	ROIAM 08242-05	MET	19,703
WEBER, GEORGE	METABOLIC PATTERNS IN NORMAL AND NEOPLASTIC TISSUES	ROICA 05034-09	PHRB	64,318
WERMAN, ROBERT	NEUROPHYSIOLOGY OF SPINAL CORD TRANSMITTERS	ROIHB 07307-02	NEUB	29,848
WHITE, ARTHUR C	IMMUNOLOGY OF STAPHYLOCOCCI	ROIAI 07902-02	ALY	24,918
WRAY, JAMES B	METABOLIC AND VASCULAR FACTORS IN FRACTURE HEALING	ROIAM 11303-02	SGYB	45,708
WRIGHT, PETER H	STUDIES ON EXPERIMENTAL DIABETES	ROIAM 07211-05	MET	36,000
WRIGHT, PETER H	REACTIONS BETWEEN INSULIN AND ITS ANTIBODIES	ROIAM 10116-03	IMB	21,180
ZEMAN, WOLFGANG	EFFECT OF MICROBEAM IRRADIATION ON BRAIN TISSUE	ROIHB 02960-09	RAD	26,652
ZEMAN, WOLFGANG	STUDY OF DIFFUSE DEGENERATIVE CNS DISEASES	ROIHB 04607-05	NEUB	25,234
INSTITUTION TOTAL	85	3,941,743		
MICROCIRCULATORY SOCIETY				
JOHNSON, PAUL C	FIRST INTERNATIONAL CONFERENCE ON MICROCIRCULATION	R13HE 11872-01	NSS	6,504
INSTITUTION TOTAL	1	6,504		
LAFAYETTE				
PURDUE UNIVERSITY				
ALLISTON, CHARLES W	STRUCTURE AND FUNCTION IN STRESSED MAMMALIAN EGGS	ROIHD 03009-02	REB	30,686
ANDREWS, FREDERICK N	BIOMEDICAL SCIENCES SUPPORT	S05FR 07032-03	NSS	108,478
BOUSQUET, WILLIAM F	ENDOCRINE INTERACTION WITH LIVER MICROSOMAL ENZYMES	ROIAM 08752-03S1	PHRA	6,092
BRANDT, KARL G	STUDIES ON GLUCOSE OXIDASE	ROIAM 11470-02	PC	15,408
BROWN, DONALD R	QUANTITATIVE STUDIES OF DISCRIMINATION BEHAVIOR	ROIHD 00909-07S1	EP	805
BROWN, DONALD R	QUANTITATIVE STUDIES OF DISCRIMINATION BEHAVIOR	ROIHD 00909-08	EXP	19,850
BROWN, HERBERT C	STEREOSPECIFIC SYNTHESIS VIA HYDROBORATION	ROIHM 10937-06	MCHA	41,750
BURNSTEIN, THEODORE	EXPERIMENTAL MEASLES ENCEPHOMYELITIS	ROIHB 04970-05	VR	37,859
BUTLER, LARRY G	MECHANISM OF INORGANIC PYROPHOSPHATASES	ROIAM 12382-01	BIO	11,001
CARLTON, W W	CONNECTIVE TISSUE LESIONS IN COPPER DEFICIENCY	ROIHE 10015-03	NTN	19,613
CARLTON, WILLIAM W	NEUROPATHOLOGY OF CHEMICALLY INDUCED LATHYRISM	ROIHD 02055-03	PTHA	16,716
CHAMPE, SEWELL P	GENETIC CONTROL OF BACTERIOPHAGE DEVELOPMENT	ROIHM 10477-06	GEN	42,224
CHRISTIAN, JOHN E	INSTITUTE FOR ENVIRONMENTAL HEALTH STUDIES	PI0ES 00099-02S1	SSS	7,577
CHRISTIAN, JOHN E	INSTITUTE FOR ENVIRONMENTAL HEALTH STUDIES	PI0ES 00099-03	SSS	78,600
CLARK, FRANCIS J	SINGLE UNIT CLOSED LOOP ANALYSIS OF A SPINAL REFLEX	ROIHB 06823-02	NEUB	28,918
CLARK, HELEN E	UTILIZATION OF ESSENTIAL AMINO ACIDS BY MAN	ROIAM 08533-04	NTN	32,363
CRANE, FREDERICK L	LIPID CYTOCHROME C COMPLEX	ROIAM 04663-08	PC	32,844
CRANE, FREDERICK L	LIPID FUNCTION IN MEMBRANE SYSTEMS	ROIHM 10741-06	PC	51,168
DENENBERG, VICTOR H	BEHAVIOR AND ENDOCRINES IN DEVELOPMENT AND REPRODUCTION	POIHD 02068-03	HOP	78,231
DUKE, FREDERICK R	FLAVIN ENZYMES	ROIAM 10538-02	BIO	14,519
FEATHERSTON, WILLIAM R	AVIAN ADAPTIVE RESPONSES TO DIETARY CHANGES	ROIAM 11487-02	NTN	17,548
FLOSS, HEINZ G	BIOSYNTHESIS OF ERGOT ALKALOIDS	ROIAM 11662-01	MCHB	54,548
FLOSS, HEINZ G	METABOLISM OF INOIC COMPOUNDS IN MICROORGANISMS	ROIHB 07646-01	MCB	17,763
FOSTER, JOSEPH F	MASS SPECTROMETRY CENTER FOR BIOMEDICAL RESEARCH	P07FR 00354-02	MCHA	134,683
FOSTER, JOSEPH F	CONFIGURATIONAL CHANGES IN PROTEIN MOLECULES	ROIKA 02248-14	BBCB	94,489
FOSTER, JOSEPH F	PHYSICO-CHEMICAL BASIS FOR BIOLOGICAL STABILITY	ROIHM 10857-12	PC	24,882
GILHAM, PETER T	ISOLATION AND SEQUENCE ANALYSIS OF POLYNUCLEOTIDES	ROIHM 11518-05	BIO	32,934

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INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRG	DOLLARS
INDIANA—(CON.)				
GOLDSTEIN, DAVID P	BINAURAL SIGNAL PROCESSING	RO1NB 07469-01	CMS	26,763
GUSTAFSON, DONALD P	CELL CULTURE STUDIES OF SCRAPIE	RO1AI 06889-03	VR	35,534
HOUSE, ARTHUR S	PERCEPTION OF VISUAL TRANSFORMS OF SPEECH STIMULI	RO1HD 01651-03	CMS	36,236
KERKER, ANN E	LITERATURE SOURCES IN THE BIOLOGICAL SCIENCES. A REVISIO	RO1LM 00212-01	BCM	15,752
KEY, JOE L	RIBONUCLEIC ACID METABOLISM IN HIGHER PLANTS	RO1GM 10157-07	PC	21,183
KOFFLER, HENRY	BACTERIAL FLAGELLA	RO1AI 00685-14	MBC	69,404
KOFFLER, HENRY	DEVELOPMENT OF A NEUROBIOLOGY PROGRAM	S04FR 06013-02	NSS	545,000
KOHLHAW, GUNTER B	STUDIES ON ALPHA-ISOPROPYLMATE SYNTHASE FROM SALMONELLA	RO1GM 15102-02	BIO	23,956
KROGMANN, DAVID W	PHOTOSYNTHETIC PHOSPHORYLATION AND ELECTRON TRANSPORT	RO1GM 15890-01	BIO	39,170
LASKOWSKI, MICHAEL, JR	SURFACES OF PROTEIN MOLECULES IN SOLUTION	RO1GM 10831-09	BBCB	61,047
LASKOWSKI, MICHAEL, JR	PROTEIN-PROTEIN ASSOCIATION	RO1GM 11812-05	BBCB	31,779
LIGHT, ALBERT	PROTEIN STRUCTURE	RO1AM 09277-04	PC	46,287
LOVETT, JAMES S	THE ROLE OF NUCLEAR CAP RNA IN FUNGAL DEVELOPMENT	RO1AI 04783-06	BM	50,015
MALVEN, PAUL V	MECHANISMS CONTROLLING CORPUS LUTEUM REGRESSION	RO1HD 02423-02	GMB	19,553
MARGERUM, DALE W	STUDY OF COORDINATION CHAIN REACTIONS	RO1GM 12152-04	MCHA	54,907
MARTIN, TRUMAN G	PHYSIO GENETIC FACTORS AFFECTING BODY COMPOSITION	RO1AM 05551-07	NTN	32,471
MC LAFFERTY, FRED W	ANALYTICAL MASS SPECTROMETRY	RO1GM 12755-04	MCHA	92,890
MERTZ, EDWIN T	ACTIVATION AND CHEMICAL NATURE OF PLASMINOGEN	RO1HE 08401-05	HEM	18,787
MIYA, TOM S	PROGRAM PROJECT PHARMACOLOGY TOXICOLOGY	P11GM 15005-02	PTR	174,086
MORRISON, HARRY A	A STUDY OF COUMARIN AND PYRIMIDINE	RO1CA 10733-01	MCHA	22,972
MORSE, ERSKINE V	GENERAL RESEARCH SUPPORT GRANT	S01FR 05459-05	NSS	57,675
MORTENSON, LEONARD E	INORGANIC NITROGEN METABOLISM	RO1AI 04865-06	MBC	75,748
MORTER, RAYMOND L	VIRULENCE FACTORS AND EPIDEMIOLOGY OF LEPTOSPIRAE	RO1AI 04029-07	BM	34,425
MOSKOWITZ, MERWIN	AGITATED CULTURES OF ASCITES HEPATOMA CELLS	RO1CA 08922-02	PTHB	29,430
NEIDHARDT, FREDERICK C	REGULATION OF BACTERIAL CATABOLISM	RO1GM 08437-08	BIO	35,340
OSTROY, SANFORD E	RELATED MOLECULAR AND PHYSIOLOGICAL EVENTS IN VISION	RO1NB 07994-01	VIS	42,674
PARDUE, HARRY L	AUTOMATION OF ANALYTICAL METHODS FOR ENZYMES	RO1GM 13326-02	PC	14,444
PERONE, SAM P	APPLICATION OF ELECTROCHEMISTRY TO RADIATION BIOLOGY	RO1CA 07773-05	BBCA	31,078
RAY, WILLIAM J, JR	MECHANISM OF THE GROUP TRANSFER PROCESS	RO1GM 08963-06S1	BIO	958
RAY, WILLIAM J, JR	MECHANISM OF THE GROUP TRANSFER PROCESS	RO1GM 08963-07	BIO	41,822
ROSSMANN, MICHAEL G	STRUCTURAL STUDIES OF PROTEIN SUBUNITS	RO1GM 10704-06	BBCB	44,426
SCHMIDT, EDWARD M	UNIT ACTIVITY FROM GROSS NERVES BY ELECTRONIC MEANS	RO1NB 06156-02S1	PHY	6,945
SCHMIDT, EDWARD M	UNIT ACTIVITY FROM GROSS NERVES BY ELECTRONIC MEANS	RO1NB 06156-03	PHY	21,090
SHANKLAND, DANIEL L	INTEGRITY AND FUNCTION OF NERVE NETWORKS	RO1NB 06016-03	PHY	18,000
SOMERVILLE, RONALD L	REGULATION OF TRYPTOPHAN BIOSYNTHESIS	RO1AM 12150-01	BIO	44,661
STILLER, MARY L	PATH OF HYDROGEN IN PHOTOSYNTHESIS AND PHOTOREDUCTION	RO1GM 08037-06	PC	14,859
TESSMAN, ETHEL S	GENETIC STUDIES ON BACTERIOPHAGES S13 AND PH1 -174	RO1AI 03903-08	GEN	30,994
TRUCE, WILLIAM E	ORGANIC SULFUR CHEMISTRY AND CANCER CHEMOTHERAPY	RO1CA 04536-10	MCHB	22,619
TYLER, VARRO E	GENERAL RESEARCH SUPPORT GRANT	S01FR 05586-01	NSS	45,764
UMBARGER, H EDWIN	ENZYMIC MECHANISMS IN BIOSYNTHETIC PATHWAYS	RO1GM 12522-04	PC	62,990
UMBARGER, H EDWIN	REGULATION OF AMINO ACID BIOSYNTHESIS IN YEAST	RO1GM 14474-02	MBC	43,967
VAN ETEN, ROBERT L	THE ACTIVE SITES OF ACID PHOSPHATASE	RO1CA 10585-01	BIO	23,179
VANABLE, JOSEPH W, JR	THYROXIN AND AMPHIBIAN SKIN GLAND DEVELOPMENT	RO1AM 06997-06	CBY	15,079
WHISTLER, ROY L	THIOSUGARS AND THEIR NUCLEOSIDES	RO1AM 11463-02	MCHA	40,204
WHISTLER, ROY L	SYNTHESIS OF HEPARINOIDS	RO1HE 08413-05	MCHA	41,231
INSTITUTION TOTAL	72	3,308,943		
MUNCIE				
BALL STATE UNIVERSITY				
SMITH, THOMAS E	PARENTAL POWER TYPES AND INFLUENCES ON ADOLESCENTS	RO1HD 03555-01	DBR	18,051
INSTITUTION TOTAL	1	18,051		
NOTRE DAME				
NOTRE DAME UNIVERSITY OF				
ASANO, TOMOAKI	INTESTINAL TRANSPORT IN AXENIC ANIMALS	RO1AM 09293-04	PHY	21,575
BRETTAUER, ROGER K	YEAST CELL FREE PROTEIN SYNTHESIS	RO1GM 12784-02	BIO	18,878
CRAIG, GEORGE B, JR	GENETICS AND REPRODUCTIVE BIOLOGY OF AEDES MOSQUITOES	RO1AI 02753-09	GEN	89,105
DOWNEY, RONALD J	NITRATE RESPIRATION IN BACTERIA	RO1AI 05820-05	MBC	11,266
ELIEL, ERNEST L	SYNTHESIS AND CONFORMATION IN HETEROCYCLIC CHEMISTRY	RO1GM 13515-03	MCHB	21,792
FREEMAN, JEREMIAH P	THE CHEMISTRY OF 1,4-DIHYDROXYPYRAZOLES	RO1CA 10742-01	MCHA	23,612
MARTINEZ-CARRION, MARINO	ISOZYMES OF HEART GLUTAMATE ASPARTATE TRANSAMINASE	RO1HE 11448-01	BIO	28,925
NORDIN, ALBERT A	THE INFLUENCE OF ANTIBODY ON ANTIBODY PRODUCING CELLS	RO1AI 07659-02S1	ALY	5,448
NORDIN, ALBERT A	THE INFLUENCE OF ANTIBODY ON ANTIBODY PRODUCING CELLS	RO1AI 07659-03	ALY	28,613
PASTO, DANIEL J	THE CHEMISTRY OF MONOTHIOALKOXY-AND ARYLOXYBORANES	RO1CA 07194-05	MCHB	18,885
POLLARD, MORRIS	DEVELOPMENT AND MAINTENANCE OF GERMFREE ANIMAL COLONIES	P06FR 00294-03	SSS	79,924
POLLARD, MORRIS	NEOPLASTIC DISEASES IN GERMFREE RODENTS	RO1CA 07271-05	VR	61,800
POLLARD, MORRIS	ONCOGENIC AND OTHER VIRUSES IN GERMFREE ANIMALS	RO1CA 07271-07	VR	55,220
TWEEDELL, KENYON S	TUMOR INDUCTION IN EMBRYONIC AND YOUNG RANA PIPIENS	RO1CA 07849-05	PTHB	26,733
WALDMAN, BERNARD	BIOMEDICAL SCIENCES SUPPORT	S05FR 07033-03	NSS	64,513
WALTER, JOSEPH L	SPECTRA OF AMINO ACIDS AND PROTEIN METAL COMPLEXES	RO1HE D2218-13	BBC	12,138
WILSON, BRO RAPHAEL	GERMFREE INVESTIGATION OF MAMMALIAN THYMUS	RO1AM 11798-01	IMB	35,910
WOSTMANN, BERNARD S	MINERAL METABOLISM IN GERMFREE RATS	RO1AM 11300-02	NTN	15,960
WOSTMANN, BERNARD S	REARING GNOTOBIOTES ON CHEMICALLY DEFINED LIQUID DIET	RO1HD 00855-09	NTN	79,530

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INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRG	DOLLARS
INDIANA—(CON.)				
WOSTMANN, BERNARD S	FACTOR AFFECTING GERMFREE CHOLESTEROL METABOLISM	RO1HE 08351-05	MET	27,085
INSTITUTION TOTAL 20	726,912			
TERRE HAUTE				
ROSE POLYTECHNIC INSTITUTE				
FREEDMAN, FRANK B	RESPONSE OF ISOLATED LUNGS TO HYPERBARIC OXYGEN	RO1HE 11972-01	CVB	15,897
INSTITUTION TOTAL 1	15,897			
STATE TOTAL 217	9,401,810			
IOWA				
AMES				
IOWA STATE UNIVERSITY OF SCIENCE AND TECHNOLOGY				
ANGELICI, ROBERT J	METAL COMPLEX CATALYSIS OF BIOLOGICAL REACTIONS	RO1GM 12626-04	MCHB	17,079
APPLEQUIST, JON B	DIPOLE MOMENT STUDIES OF SYNTHETIC POLYPEPTIDES	RO1GM 13684-03	BBCA	66,897
BUCHANAN, ROBERT E	EVALUATION OF NAMES OF TAXA FOR BERGEYS MANUAL ED 8	RO1ILM 00499-02	BM	21,418
BUCK, WILLIAM B	MULTICRITERIAL EVALUATION OF ENVIRONMENTAL PESTICIDES	RO1ES 00122-02	TOX	45,400
CHAPMAN, ORVILLE L	ALKAZONES AND HYDRAZONES OF CHEMOTHERAPEUTIC INTEREST	RO1CA 08540-03	MCHA	23,876
CHAPMAN, ORVILLE L	ORGANIC PHOTOCHEMISTRY	RO1GM 14305-05	MCHA	27,996
DAHM, PAUL A	THE METABOLISM OF INSECTICIDES AND THEIR RESIDUES	RO1ES 00205-15	TOX	33,349
DIERKS, RICHARD E	STRAIN DIFFERENTIATION OF RABIES VIRUSES	R22AI 08607-01	SSS	41,839
DUNCAN, J ROBERT	MYCOPLASMA HYORHINIS ARTHRITIS OF SWINE	RO1AI 07922-02	BM	21,911
FOSS, JOHN G	CIRCULAR DICHROISM OF DYE-BIOPOLYMER COMPLEXES	RO1GM 15540-01	BBCA	30,177
FRENCH, DEXTER	MECHANISM OF AMYLASE ACTION	RO1GM 08822-07	PC	78,227
FREY, M L	PARAINFLUENZA - 3 VIRUS INFECTIONS OF CATTLE	RO1AI 07102-03	VR	16,330
FROMM, HERBERT J	RIBITOL DEHYDROGENASE AND HEXOKINASE ACTION	RO1AM 11041-03	BIO	30,652
GETTY, ROBERT	GERONTOLOGICAL STUDIES IN THE DOG AND HOG	RO1HD 00041-10	PTHA	30,480
GRAVES, DONALD J	ENZYME STRUCTURE AND ACTION ON MACROMOLECULES	RO1GM 09587-07	BIO	32,995
HARTMAN, PAUL A	GENETICS AND REGULATION OF EXTRACELLULAR ENZYMES	RO1GM 14574-02	MBC	18,165
HEARN, WALTER R	PYRROLE METABOLISM IN MICROORGANISMS	RO1AI 05016-06	BIO	27,067
HOROWITZ, JACK	STRUCTURAL BASIS OF RIBONUCLEIC ACID SPECIFICITY	RO1GM 09042-07	PC	39,259
JACOBSON, NORMAN L	LIPID AND FATTY ACID ABSORPTION IN THE YOUNG	RO1HE 04969-09	MET	50,215
KEMPTHORNE, OSCAR	RESEARCH IN MATHEMATICAL AND STATISTICAL GENETICS	RO1GM 13827-02S1	SSS	231
KEMPTHORNE, OSCAR	RESEARCH IN MATHEMATICAL AND STATISTICAL GENETICS	RO1GM 13827-03	SSS	56,904
KITCHELL, RALPH L	GENERAL RESEARCH SUPPORT GRANT	S01FR 05565-04	NSS	145,566
MELAMPY, ROBERT M	PITUITARY OVARIAN UTERINE RELATIONSHIPS	RO1HD 01168-09	END	56,946
METZLER, DAVID E	THE ACTION OF B VITAMINS IN ENZYMIC CATALYSIS	RO1AM 01549-12	BIO	43,621
PAGE, J BOYD	BIOMEDICAL SCIENCES SUPPORT	S05FR 07034-03	NSS	76,560
REDMOND, JAMES R	A COMPARATIVE STUDY OF HEMOCYANINS	RO1GM 11199-06	PHY	13,602
ROSS, RICHARD F	MYCOPLASMA GRANULARUM ARTHRITIS OF SWINE	RO1AI 07921-02	BM	21,394
ROUVIE, MALCOLM A	STRUCTURE OF FEATHER KERATIN	RO1GM 11127-06	BBCB	17,607
RUSSELL, GLEN A	E S R SPECTROSCOPY TO PROBLEMS OF STRUCTURE	RO1GM 13000-03	MCHB	23,829
SWENSON, MELVIN J	PHYSIOLOGY AND COMPOSITION OF BODY FLUIDS	RO1HE 05228-07	HEM	30,803
TRAHANOVSKY, WALTER S	OXIDATION AND REDUCTION OF ORGANIC COMPOUNDS	RO1GM 13799-02	MCHB	19,385
WILLOMAN, WILLIAM C	ALKALOID BIOSYNTHESIS AND INTERCONVERSIONS	RO1HE 07503-06	MCHA	46,498
YOUNG, JERRY W	MECHANISM AND CONTROL OF GLUCONEOGENESIS IN RUMINANTS	RO1AM 10706-02	MET	27,507
ZIMMERMANN, WILLIAM J	THE PREVALENCE OF TRICHINELLA SPIRALIS IN HUMANS	RO1AI 06658-03	TMP	16,215
INSTITUTION TOTAL 34	1,250,000			
SOCIETY FOR THE STUDY OF REPRODUCTION				
MELAMPY, ROBERT M	SYMPOSIUM ON ADVANCES IN MALE REPRODUCTIVE PHYSIOLOGY	R13HD 03528-01	REB	3,047
INSTITUTION TOTAL 1	3,047			
DES MOINES				
COLLEGE OF OSTEOPATHIC MEDICINE AND SURGERY				
CELANDER, D ROBERT	BIOSYNTHESIS AND USE OF SE-75 PROTEINS AS TRACERS	RO1HE 07260-07	HEM	15,339
CELANDER, DAVID R	USE OF UROKINASE IN STUDY OF THE FIBRINOLYTIC SYSTEM	RO1AM 06285-07	HEM	15,796
VIGORITO, THOMAS	GENERAL RESEARCH SUPPORT GRANT	S01FR 05437-07	NSS	30,467
INSTITUTION TOTAL 3	61,602			
GRINNELL				
GRINNELL COLLEGE				
ERICKSON, LUTHER E	N M R OF METAL COMPLEXES OF POSSIBLE ANTICARCINOGENS	RO1CA 06852-06	BBCB	11,831
INSTITUTION TOTAL 1	11,831			
IOWA CITY				
AMERICAN CLEFT PALATE ASSOCIATION				
SPRIESTERSBACH, DUANE C	1969 INTERNATIONAL CONGRESS ON CLEFT PALATE	R13DE 02787-01	NSS	39,895
INSTITUTION TOTAL 1	39,895			
IOWA UNIVERSITY OF				
ABBOUD, FRANCOIS M	VASCULAR REACTIVITY	RO1HE 09835-03	CVB	35,008
ANSON, BARRY J	SURGICAL ANATOMY OF EAR AND TEMPORAL BONE	RO1NB 03855-06	CMS	50,949
ARMALY, MANSOUR F	NEUROGENIC REGULATION OF INTRAOCULAR PRESSURE	RO1NB 01689-11	VIS	36,435

TABLE 2—RESEARCH GRANTS, BY AREA, INSTITUTION, AND PRINCIPAL INVESTIGATOR

INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRG	DOLLARS
IOWA—(CON.)				
ARMALY, MANSOUR F	COMPARATIVE STUDY OF GLAUCOMA	RO1NB 03636-06	VIS	57,012
BARFKNECHT, CHARLES F	PLANT FACTORS AFFECTING REPRODUCTION	RO1HD 03289-01	MCHA	9,872
BARKER, ROBERT	ANHYDROALDITOLS	RO1GM 11963-05	MCHA	23,281
BARKER, ROBERT	ACTIVE-SITE CONFORMATIONS	RO1HD 02618-02	PC	76,585
BEAMS, HAROLD W	STUDIES ON CELL STRUCTURE	RO1GM 04706-12	CBY	13,283
BENTON, ARTHUR L	PERFORMANCE TESTS IN CEREBRAL DISEASE	RO1NB 00616-14	CPR	18,043
BENTON, ARTHUR L	BEHAVIOR CHANGE IN CEREBROVASCULAR DISEASE WORKSHOP	R13NB 08087-01	NSS	12,522
BERG, CLARENCE P	AVAILABILITY OF INVERTIBLE D-AMINO ACIDS FOR GROWTH	RO1AM 03141-07	NTN	14,400
BERG, CLARENCE P	ENZYMATIC CONVERSION OF D-TRYPTOPHAN TO D-KYNURENINE	RO1AM 09797-02	MET	8,560
BLAUG, SEYMOUR M	A STUDY OF AEROSOL BRONCHOGRAPHY AND LARYNGOGRAPHY	RO1CA 08592-03	RAD	8,561
BRADBURY, JAMES T	URINARY GONADOTROPHINS IN SECONDARY AMENORRHEA	RO1AM 01686-11	END	45,362
BRODY, MICHAEL J	VASCULAR REFLEXES AND VASOMOTOR CENTER ACTIVITY	RO1NB 04889-05	NEUB	32,640
BROSSEAU, GEORGE E, JR	CHROMOSOME ORGANIZATION AND FUNCTION IN DROSOPHILA	RO1GM 06508-09	GEN	25,081
BROWN, JOSEPH D	ENDOCRINOLOGY OF ADIPOSE TISSUE	RO1AM 11465-02	MET	22,224
BULECHEK, GLORIA M	NURSING PROBLEMS OF THE PATIENT WITH CHRONIC RENAL DISEASE	R21NU 00294-01	NR	26,540
BURTON, DONALD J	TRIALKYLPHOSPHINE-POLYFLUOROKETONE REACTIONS	RO1CA 10745-01	MCHB	24,948
BURTON, DONALD J	HYDROBORATION OF HALOGENATED OLEFINS	RO1GM 11809-05	MCHB	25,258
CANNON, JOSEPH G	SYNTHESIS OF HYDROXYLAMINE DERIVATIVES	RO1GM 10753-06	MCHA	11,280
CANNON, JOSEPH G	SYNTHESIS OF EMETIC COMPOUNDS RELATED TO APOMORPHINE	RO1NB 04349-06	MCHB	17,894
CANNON, JOSEPH G	SYNTHESIS OF ACETYLCHOLINE ANALOGS	RO1NB 06100-03	MCHA	12,957
CANTOR, JOAN H	VERBAL MEDIATION IN CHILDRENS LEARNING	RO1HD 01376-04	EXP	18,279
CAREW, DAVID P	TISSUE CULTURE STUDY OF MEMBERS OF APOCYNACEAE	RO1HE 05290-08	PHRA	10,860
CHALKLEY, G ROGER	STRUCTURE AND FUNCTION OF CHROMOSOMAL NUCLEOHISTONE	RO1CA 10871-01	BBCA	31,998
CHRISTENSEN, JAMES	REGULATION OF LOWER ESOPHAGEAL SPHINCTER	RO1AM 11242-02	GMA	23,293
CLIFTON, JAMES A	SMALL INTESTINAL ABSORPTION IN MALABSORPTION SYNDROMES	RO1AM 02534-10	GMA	44,754
CLIFTON, JAMES A	STUDIES OF THE SMALL INTESTINAL SLOW WAVE	RO1AM 08901-03	GMA	14,174
CONNOR, WILLIAM E	LIPIDS, THROMBOSIS AND ATHEROSCLEROSIS	PO1HE 11485-01	HEPA	261,974
COOPER, REGINALD R	ELECTRON MICROSCOPY OF BONE AND SKELETAL MUSCLE	RO1HD 02788-02	PTHA	9,996
CORTNEY, MARSHALL A	SODIUM TRANSPORT, ENERGY COUPLING IN KIDNEY	RO1AM 09323-04	PHY	19,394
CURTIS, JAMES F	COMPUTER FACILITY FOR SPEECH AND HEARING RESEARCH	RO1NB 07814-01	CMS	80,150
DIECKE, FRIEDRICH P	ION MOVEMENTS AND PERMEABILITY OF AXON MEMBRANES	RO1NB 05188-05	PHY	17,257
DRYER, ROBERT L	HEAT PRODUCTION AND LIPID METABOLISM OF BROWN FAT	RO1AM 08476-04	MET	30,077
DUNPHY, DONALD	STUDY OF MENTAL RETARDATION AND NEUROLOGICAL DISEASES	PO1NB 05489-03S1	NBPA	5,727
ECKSTEIN, JOHN W	VENOMOTOR RESPONSES TO CIRCULATORY ALTERATIONS IN MAN	RO1HE 02644-12	CVA	57,602
FILER, LLOYD J, JR	GROWTH PATTERNS AND BODY COMPOSITION OF PIGS	RO1HD 01784-03	NTN	91,595
FLOCKS, RUBIN H	SURGERY ADJUVANT BLADDER CANCER GROUP STUDY	RO1CA 07895-05	SRC	1,105
FOMON, SAMUEL J	EFFECT OF DIET ON BODY COMPOSITION	RO1HD 00383-09	NTN	136,626
FORKER, EDSON L	BILE FORMATION, ANALYSIS WITH RADIOACTIVE INDICATORS	RO1AM 09892-03	GMA	13,421
FRANKEL, JOSEPH	ANALYSIS OF MORPHOGENESIS IN TETRAHYMENA	RO1GM 11012-06	CBYA	18,846
FREEMAN, RICHARD M	TRACE ELEMENTS IN RENAL INSUFFICIENCY	RO1AM 12012-01	GMB	8,035
FURNAS, DAVID W	GROWTH AND DEVELOPMENT OF REPLANTED YOUNG FORELIMBS	RO1AM 11703-01	SGYB	5,594
GORDON, GILBERT	THE KINETICS OF PRIMARY STEPS IN CHEMICAL REACTIONS	RO1GM 15655-01	MCHB	37,847
GUILLORY, J KEITH	POLYMORPHISM IN SULFONAMIDES	RO1AI 07572-02	MCHB	11,013
HALMI, NICHOLAS S	THYROIDAL AND EXTRATHYROIDAL METABOLISM OF IODIDE	RO1AM 02463-10	MET	14,257
HARDY, JAMES C	A STUDY OF THE PHYSIOLOGY OF SPEECH BREATHING	RO1NB 02662-08	CMS	46,904
HARTMAN, H BERNARD	AN ELECTROPHYSIOLOGICAL STUDY OF COXAL PROPRIOCEPTORS	RO1NB 07837-01	PHY	29,595
HAST, MALCOLM H	NEUROMUSCULAR MECHANISMS OF THE LARYNX	RO1NB 05919-03	CMS	26,176
HAST, MALCOLM H	PRENATAL DEVELOPMENT OF THE LARYNX	RO1NB 07721-01	CMS	14,404
HAYDEN, JESS, JR	INNERVATION OF DEVELOPING DENTAL STRUCTURES	RO1DE 02732-01	DEN	51,518
HAYDEN, JESS, JR	GENERAL RESEARCH SUPPORT GRANT	SO1FR 05313-07	NSS	31,949
HOAK, JOHN C	PATHOGENESIS OF HEMORRHAGE AND THROMBOSIS	RO1HE 09862-03	HEM	24,418
HOGBEN, C ADRIAN	GASTROINTESTINAL ABSORPTION AND SECRETION	RO1AM 05848-05S2	GMA	15,685
HOGENKAMP, HENRICUS P C	STRUCTURE AND REACTIONS OF THE COBAMIDE COENZYMES	RO1AM 08627-04	BIO	38,456
HOHLE, RAYMOND H	SENSORY INFORMATION PROCESSING IN CHILDREN AND ADULTS	RO1HD 02681-02	EXP	8,332
HSU, H F	MECHANISM OF SCHISTOSOME IMMUNITY	R22AI 07448-02	SSS	65,788
HUBEL, KENNETH A	THE MECHANISM OF BICARBONATE SECRETION IN THE PANCREAS	RO1AM 09022-04	GMA	17,291
JOHNSON, WALLACE W	INTENSIFIED COURSE PRESENTATION AND SINGLE CONCEPT FILM	RO1DH 00071-03	HSR	78,419
KALNITSKY, GEORGE	PROTEOLYTIC ENZYMES IN BOVINE DENTAL PULP	RO1DE 02301-02	PC	6,041
KAMMERMEYER, KARL	NONTHROMBOGENIC SURFACES FOR SILICONE ELASTOMERS	RO1HE 10654-02	HEM	7,800
KENT, THOMAS H	THE ROLE OF BACTERIA IN INTESTINAL DISEASE	RO1AI 07587-02	GMA	21,336
KESSEL, RICHARD G	STUDIES ON CELL STRUCTURE	RO1GM 09229-06	CB	12,395
KESSEL, RICHARD G	OOCYTE STRUCTURE AND FUNCTION	RO1HD 00699-05	CBY	10,766
KOLLROS, JERRY J	TISSUE RESPONSES TO THYROID HORMONES	RO1AM 02202-10	CBY	20,618
LACH, JOHN L	CHEMIOADSORPTION IN MEDICINAL SYSTEMS	RO1GM 13178-02	MCHA	8,337
LATA, GENE F	HORMONAL CONTROL OF LIVER ENZYMES	RO1AM 09866-02	MET	36,504
LONG, JOHN P	STRUCTURE ACTIVITY RELATIONSHIPS OF AUTONOMIC AGENTS	RO1NB 01396-11	PHRA	15,903
LONG, JOHN P	STUDIES ON AUTONOMIC TRANSMISSION	RO1NB 04431-06	PHRA	15,060
LONGNECKER, DANIEL S	MECHANISM OF PUROMYCIN-INDUCED PANCREATIC NECROSIS	RO1GM 15570-01	PTHB	20,321
MASON, EDWARD E	CELLULAR ENZYME LOSS IN GENERAL SURGERY	RO1GM 13568-03	SGYA	19,224
MC CABE, BRIAN F	CENTRAL MECHANISMS IN THE VESTIBULAR APPARATUS	RO1NB 06785-02	CMS	59,510
MCCABE, BRIAN F	8TH NERVE DYSFUNCTION IN NEUROLOGICAL DISORDERS	RO1NB 02779-08	CMS	50,762
MOLL, KENNETH L	CINEFLUOROGRAPHIC STUDIES OF SPEECH ARTICULATION	RO1NB 07555-01	CMS	35,094
MONTGOMERY, REX	STRUCTURES OF CARBOHYDRATE PROSTHETIC GROUPS	RO1GM 14013-02	PC	34,775

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INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRG	DOLLARS
IOWA—(CON.)				
MORRIS, HUGHLETT L	DIAGNOSTIC AND PROGNOSTIC TECHNIQUES IN CLEFT PALATE	P01DE 00853-10S1	DEP	5,427
MORRIS, HUGHLETT L	DIAGNOSTIC AND PROGNOSTIC TECHNIQUES IN CLEFT PALATE	P01DE 00853-11	DEP	218,253
OSBORNE, JAMES W	CELL PROLIFERATION IN THE GUT AFTER SURGICAL RESECTION	R01AM 11206-02	SCYA	14,588
PIETRZYK, DONALD J	SORPTION OF AMINES ON CATION EXCHANGE RESINS	R01GM 15851-01	MCHB	32,399
PONSETI, IGNACIO V	AMINONITRILE LESIONS AND HUMAN DISEASES	R01AM 00149-16	MET	33,000
RICHARDSON, ROBERT L	GROWTH STUDIES ON ORAL SPIROCHETES	R01DE 02313-03	DEN	8,700
RIEKE, WILLIAM O	PROLIFERATION AND METABOLISM OF IMMUNOLOGIC CELLS	R01AI 07690-02	ALY	29,466
SAHS, A L	CENTRAL REPORTING AGENCY COOPERATIVE ANEURYSM STUDY	R01NB 02379-09S1	SSS	10,507
SAHS, A L	CENTRAL REPORTING AGENCY COOPERATIVE ANEURYSM STUDY	R01NB 02379-10	SSS	125,715
SAHS, A L	COOPERATIVE ANEURYSM STUDY	R01NB 04373-05S1	SSS	179
SAHS, A L	COOPERATIVE ANEURYSM STUDY	R01NB 04373-06	SSS	4,677
SAMAAN, NAGUIB A	HPL RADIO-IMMUNOASSAY AS A STUDY OF PLACENTAL FUNCTION	R01HD 03254-01	HED	36,759
SCHOTTELIUS, BYRON A	BIOPHYSICS OF INITIAL EVENTS IN MUSCLE CONTRACTION	R01GM 10205-06	PHY	14,778
SCRANTON, JAMES P	THE FORMATION AND SIGNIFICANCE OF THYROIDAL PROTEINS	R01AM 12070-02	END	28,942
SHIPTON, HAROLD W	A BIO-ENGINEERING RESOURCE FACILITY	P01GM 15427-01A1	GMP	89,892
SHIPTON, HAROLD W	COMPUTER CONTROL OF BIO-CHEMICAL ANALYSIS	P01GM 15907-03	COM	15,600
SIX, ERICH W	GENETIC STUDIES OF PHAGE-PROPHAGE INTERACTIONS	R01AI 04043-07	VR	19,558
SMITH, IAN M	LETHAL STAPHYLOCOCCAL INFECTIONS	R01AI 04046-07	BM	26,141
SMITH, LEON E	MYOTATIC REFLEX - ISOMETRIC CONTRACTION STRENGTH & RT	R01HD 02174-03	AFY	5,956
SPAZIANI, EUGENE	MECHANISM OF HORMONE ACTION IN REPRODUCTIVE ORGANS	R01HD 00446-08S1	END	23,000
SPAZIANI, EUGENE	MECHANISM OF HORMONE ACTION IN REPRODUCTIVE ORGANS	R01HD 00446-09	END	39,293
SPRATT, JAMES L	STUDIES ON THE METABOLISM OF CARDIAC GLYCOSIDES	R01GM 09784-06	PHRA	26,073
SPRATT, JAMES L	ALTERING BILIRUBIN METABOLISM AND KERNICTERUS BY DRUG	R01NB 04925-05	PHRA	21,761
SPRIESTERSBACH, DUANE C	BIOMEDICAL SCIENCES SUPPORT	S05FR 07035-03	NSS	55,901
STAY, BARBARA	ACCESSORY REPRODUCTIVE SECRETIONS	R01AI 08240-01	TMP	16,049
STELLWAGEN, EARLE C	THE STRUCTURE OF CYTOCHROME C	R01GM 13215-03	BBCB	20,062
STONE, DANIEL B	GENERAL CLINICAL RESEARCH CENTER	M01FR 00059-07	CLR	255,824
STONE, DANIEL B	DIET AND DEVELOPMENT OF COMPLICATIONS IN DIABETES	R01AM 06090-07	NTN	59,154
STONE, DANIEL B	GENERAL RESEARCH SUPPORT GRANT	S01FR 05372-07	NSS	295,867
SUBTELNY, STEPHEN	THE NUCLEUS IN DIFFERENTIATION AND EMBRYOGENESIS	R01CA 08700-03S1	CBY	2,810
TIPTON, CHARLES M	THE MEASUREMENT OF LIGAMENOUS STRENGTH	R01AM 08893-04	AFY	28,642
VAN ALLEN, MAURICE W	NEUROSENSORY CENTER	P01NB 03354-07	NBPA	173,786
VESTLING, CARL S	ISOLATION AND CHARACTERIZATION OF LIVER ENZYMES	R01CA 07617-06	PC	31,114
WARKENTIN, DONALD L	COOPERATIVE STUDY OF DRUGS AND CORONARY HEART DISEASE	R01HE 11376-02	SRC	38,843
WATZKE, ROBERT C	RETINAL DETACHMENT BY SULFATED POLYSACCHARIDES	R01NB 06083-03	VIS	7,874
WILLIAMSON, HAROLD E	RENAL MECHANISMS OF WATER AND ELECTROLYTE EXCRETION	R01AM 05298-07	PHRA	35,298
WOODS, LAUREN A	TOXICOLOGY AND BIOCHEMICAL PHARMACOLOGY	P11GM 12675-04	PTR	614,445
WOODS, LAUREN A	DISTRIBUTION AND FATE OF MORPHINE AND RELATED DRUGS	R01NB 02928-08	PHRA	37,523
ZEILER, MICHAEL D	STUDIES OF STIMULUS AND REINFORCEMENT CONTROL	R01HD 02845-01	EPR	40,018
INSTITUTION TOTAL	115	4,935,324		
PELLA				
CENTRAL UNIVERSITY OF IOWA				
KOLENBRANDER, HAROLD M	THE EFFECT OF DIETARY ETHIONINE ON UROCANASE ACTIVITY	R01AM 09847-03	MET	8,131
INSTITUTION TOTAL	1	8,131		
STATE TOTAL	156	6,309,830		
KANSAS				
EMPORIA				
KANSAS STATE TEACHERS COLLEGE				
MC ELREE, HELEN	FACTORS INFLUENCING MACROPHAGE FUNCTION	R01AM 07181-06	ALY	18,374
ROWE, EDWARD C	ANATOMICAL AND PHYSIOLOGICAL STUDIES OF GANGLIA	R01NB 06691-03	TMP	20,184
SMALLEY, ROBERT L	THE RELATIONSHIPS BETWEEN BROWN AND WHITE FATS	R01AM 09839-03	MET	12,416
INSTITUTION TOTAL	3	50,974		
HILLSBORO				
TABOR COLLEGE				
HARMS, CLARENCE E	AXENIC CULTIVATION OF ACANTHOCEPHALANS	R01AI 06679-02S1	TMP	772
HARMS, CLARENCE E	AXENIC CULTIVATION OF ACANTHOCEPHALANS	R01AI 06679-03S1	TMP	3,480
INSTITUTION TOTAL	2	4,252		
KANSAS CITY				
KANSAS UNIVERSITY OF				
AMELUNXEN, REMI E	CHARACTERIZATION OF ENZYMES FROM A THERMOPHILE	R01AI 06283-03	MBC	6,814
AZARNOFF, DANIEL L	FACTORS AFFECTING THE RESPONSES TO DRUGS	P11GM 15956-01	PTR	261,633
AZARNOFF, DANIEL L	FACTORS INFLUENCING CHOLESTEROL METABOLISM	R01HE 07601-07	MET	25,676
BAKERMAN, SEYMOUR	STRUCTURAL PROTEINS OF HUMAN RED BLOOD CELL MEMBRANE	R01HE 08445-05	HEM	15,757
BOLINGER, ROBERT E	FACTORS AFFECTING THE PLASMA INSULIN ACTIVITY	R01AM 00504-13	END	36,381
CARR, DANIEL D	THE ROLE OF SULFHYDRYL GROUPS IN FLAVOENZYMES	R01AM 10874-02	BIO	14,686
CHAPMAN, ALBERT L	STUDIES ON THE VIRAL ETIOLOGY OF LEUKEMIA	R01CA 10427-01	VR	47,400
CUPPAGE, FRANCIS E	REGENERATION OF THE NEPHRON	R01AM 12064-02	PTHA	18,290
FANESTIL, DARRELL D	ALDOSTERONE STIMULATION OF SODIUM TRANSPORT	R01AM 10525-02	GMB	23,581

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INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRG	DOLLARS
KANSAS—(CON.)				
FISHER, HARVEY F	MECHANISMS OF ENZYMATIC CATALYSIS	RO1GM 11998-04S1	PC	214
FISHER, HARVEY F	STRUCTURE AND MECHANISMS OF ACTION OF ENZYMES	RO1GM 15188-02	PC	39,174
FRENKEL, JACOB KARL	STUDIES ON THE TRANSMISSION OF TOXOPLASMOSES	RO1AI 07489-02	TMP	40,157
FRENKEL, JACOB KARL	STUDIES ON CELLULAR AND HUMORAL IMMUNITY	RO1AI 07810-07	ALY	32,807
GOETZ, KENNETH L	A STUDY OF ATRIAL RECEPTORS	RO1HE 11560-01	PHY	18,660
GOETZINGER, CORNELIUS P	A STUDY OF SAL-BONE CONDUCTION DISCREPANCIES	RO1NB 07426-01	CMS	20,815
GOODRIDGE, ALAN G	REGULATION OF LIPOGENESIS DURING DEVELOPMENT	RO1AM 11123-01	MET	11,700
GRADY, HAROLD J	METABOLIC STUDIES WITH DDD ISOMERS	RO1AM 08188-05	END	14,007
GREENWALD, GILBERT S	FOLLICULAR DEVELOPMENT IN THE MAMMALIAN OVARY	RO1HD 00596-05S1	HED	9,480
GREENWALD, GILBERT S	FOLLICULAR AND LUTEAL REGULATION IN THE MAMMALIAN OVARY	RO1HD 00596-06A1	REB	35,857
GRISOLIA, SANTIAGO	VARIATIONS IN ENZYME ACTIVITY	RO1AI 03505-08	BIO	29,760
GRISOLIA, SANTIAGO	METABOLISM OF N-ACYL AND N-CARBAMYL AMINO ACIDS	RO1AM 01855-14	BIO	32,400
JOHNSON, DONALD C	FOLLICLE STIMULATING HORMONE CONTROL IN THE MALE	RO1AM 03097-01	REB	15,352
KIMMEL, JOE R	STRUCTURE FUNCTION RELATIONSHIPS IN PROTEINS	RO1AM 09072-05	PC	31,723
KRANTZ, KERMIT E	MATERNAL-FETAL RELATIONSHIP IN THE PLACENTA	RO1HD 01215-08A1	HED	23,178
LARSEN, WILLIAM E	SOUTHEASTERN CANCER CHEMOTHERAPY COOPERATIVE STUDY GROUP	RI0CA 03337-12	SRC	11,720
LEAPE, LUCIAN L	EARLY TISSUE CHANGES IN BURNS	RO1GM 15758-01	SGYA	14,890
LEWIS, CHARLES E	THE DYNAMICS OF NURSING IN AMBULATORY PATIENT CARE	RO2NU 00145-03S1	NR	19,158
LIU, CHIEN	FLUORESCENT ANTIBODY STUDIES OF INFECTIOUS DISEASES	RO1HD 02567-04	VR	39,448
MATZKE, HOWARD A	TOPOGRAPHY AND PATHWAYS OF THE TRIGEMINAL NERVE	RO1NB 04414-06	NEUB	20,227
MATZKE, HOWARD A	COMPARATIVE ANATOMY OF THE NERVOUS SYSTEM OF MAMMALS	RO1NB 04532-06	NEUA	21,130
MEEK, JOSEPH C, JR	STUDIES OF THE LONG-ACTING THYROID STIMULATORS	RO1AM 09261-03S1	END	5,703
MELNYKOVYCH, GEORGE	STEROID INDUCED CHANGES IN CULTURED MALIGNANT CELLS	RO1CA 08315-04	PTHB	17,019
MILLER, DON R	PROLONGED CIRCULATORY SUPPORT WITH LEFT HEART BYPASS	RO1HE 11267-02	SGYA	12,422
MILLS, RUSSELL C	GENERAL RESEARCH SUPPORT GRANT	SO1FR 05373-07	NSS	235,025
MURDOCK, ARCHIE L	STRUCTURE-FUNCTION RELATIONSHIPS IN ENZYMES	RO1AM 09767-03	BIO	10,555
MURPHY, JUANITA F	EFFECTS OF NURSING INTERVENTION ON ILLNESS CAREERS	RO2NU 00286-01	NR	20,150
NELSON, STANLEY R	METABOLIC RATE AND ISOENZYME ACTIVITY IN BRAIN TUMORS	RO1CA 10489-01	PHRB	13,878
NICHOLS, JOHN M	EVALUATION OF ADRENOCORTICAL INHIBITORS	RO1AM 02767-09S1	PTHA	1,118
NICHOLS, JOHN M	EVALUATION OF ADRENOCORTICAL INHIBITORS	RO1AM 02767-10	PTHA	31,255
NORRIS, CATHERINE M	CONFERENCES - DEVELOPMENT OF NURSING THEORY	RI3NU 00309-01	NR	20,844
PELTIER, LEONARD F	FAT EMBOLISM	RO1HE 03592-11	SGYA	9,454
REED, WILLIAM A	PHYSIOLOGIC CHANGES WITH PROSTHETIC HEART VALVES	RO1HE 10508-03	SGYB	5,740
REISSMANN, KURT R	STUDIES ON ERYTHROPOIETIN	RO1AM 07239-05	HEM	27,007
REISSMANN, KURT R	SELECTIVE MYELOTXIC EFFECT OF ANTITUMOR DRUGS	RO1CA 08736-03	HEM	18,994
RHODES, JAMES B	INTESTINAL PEPTIDASES AND GLIADIN PEPTIDE HYDROLYSIS	RO1AM 12329-01	GMA	16,888
RUSSELL, PERCY J	MECHANISM OF ACTION OF 2-AMINO-2-METHYL PROPANOL	RO1AM 08747-04	MET	14,878
SCARPELLI, DANTE G	AFLATOXIN INJURY AND CARCINOGENESIS IN TROUT LIVER	RO1CA 10257-03	PTHB	17,277
SCHLOERB, PAUL R	FLUID-ELECTROLYTE METABOLISM AND UREMIA	RO1HE 02363-12	SGYA	71,429
SCHOOLMAN, ARNOLD	CEREBELLAR MECHANISMS IN RESP & VASOMOTOR FUNCTIONS	RO1NB 04564-05	NEUA	9,896
SHELLENBERGER, M KENT	BASAL GANGLIA CHEMICAL-ELECTROPHYSIOLOGIC CORRELATES	RO1NB 08337-01	PPR	25,776
SHELTON, RALPH L, JR	PREDICTING ARTICULATION FROM CINFLUOROGRAPHIC MEASUREME	RO1DE 02004-05	CMS	32,137
SULLIVAN, LAWRENCE P	DIURETIC AGENTS AND ION TRANSPORT IN THE BLADDER	RO1AM 10227-03	PHRA	13,949
SVOBODA, DONALD J	CELLULAR RESPONSES TO CARCINOGENIC INJURY	RO1CA 05680-07	PTHB	37,936
SVOBODA, DONALD J	STUDY OF TWO STAGE MECHANISM IN HEPATOCARCINOGENESIS	RO1CA 08055-04	PTHB	20,100
THAL, ALAN P	HEMODYNAMIC AND METABOLIC STUDIES IN PANCREATITIS	RO1AM 11241-02	GMA	44,642
THOMPSON, ALAN M	NON-ELECTROLYTE TRANSPORT ALTERATION IN PERFUSED BRAIN	RO1NB 07059-02	NEUA	19,501
TUCKER, VIRGINIA L	INTRA & TRANS CELLULAR CHANGES IN ACIDOSIS & ALKALOSIS	RO1AM 06570-06	GMB	14,803
VALK, WILLIAM L	SURGERY ADJUVANT BLADDER GROUP STUDY	RO1CA 07711-05	SRC	24,372
WARREN, JAMES C	PRECURSOR ROLE OF STEROID SULFATES	RO1AM 05532-07	END	11,024
WARREN, JAMES C	BIOSYNTHESIS AND ACTION OF STEROIDS	RO1AM 05546-07	END	40,309
WENNER, HERBERT A	HOST-VIRUS INTEGRATIONS I POX VIRUSES	PO1AI 06263-04	VR	75,186
WENNER, HERBERT A	STUDIES OF YABA VIRUS AND TUMORIGENESIS	RO1CA 08953-02	VR	54,107
WERDER, ALVAR A	STUDIES ON ONCOGENIC VIRUSES IN AXENIC MICE	RO1CA 04888-09	VR	26,926
WHITE, THOMAS G	IMMUNOLOGY OF COLUMN FRACTIONS OF ERY, RHUSIOPATHIAE	RO1AM 10075-03	ALY	6,566
WOLF, GEORGE A	GENERAL CLINICAL RESEARCH CENTER	MO1FR 00067-06	CLR	258,792
ZIEGLER, DEWEY K	PROGNOSIS AND THERAPY IN CEREBROVASCULAR DISEASE	PO2NB 06907-02	NBPA	166,944
INSTITUTION TOTAL	66	2,364,681		
LAWRENCE				
KANSAS UNIVERSITY OF				
ADAMS, RALPH N	ELECTROCHEMISTRY-EPR OF BIOLOGICAL ELECTRON TRANSFER	RO1GM 13791-02S1	BBCB	1,006
ADAMS, RALPH N	ELECTROCHEMISTRY-EPR OF BIOLOGICAL ELECTRON TRANSFER	RO1GM 13791-03	BBCB	30,538
AKAGI, JAMES M	STUDIES ON SULFATE REDUCING BACTERIA	RO1AI 04672-07	MBG	26,854
ARGERSINGER, WILLIAM J, JR	BIOMEDICAL SCIENCES SUPPORT	S05FR 07037-03	NSS	91,520
BULLER, CLARENCE S	GROWTH OF TARI COLIPHAGE ON ESCHERICHIA COLI K12	RO1AI 06875-02	BM	30,133
BURTON, PAUL R	ULTRASTRUCTURE OF PARASITIC AND FREE-LIVING FLATWORMS	RO1AI 06448-02S1	CBY	128
BURTON, PAUL R	FINE STRUCTURE OF MICROTUBULES AND ENDOCRINE PANCREAS	RO1AI 06448-04	CBY	172
BUSSELL, ROBERT H	COMPARATIVE STUDIES WITH SELECTED MYXOVIRUSES	RO1AI 07143-03	VR	25,806
CAMIN, JOSEPH H	HOST-SELECTION BEHAVIOR AND ECOLOGY OF PARASITIC ACARI	RO1AI 02487-11	TMP	44,920
CARLSON, ROBERT G	MODEL SYSTEMS FOR STUDIES OF TERPENOID BIOSYNTHESIS	RO1AM 10886-02	MCHA	15,117
DUJELMAN, WILLIAM E	AMPHIBIANS AND REPTILES OF PANAMA	RO1GM 12020-04	TMP	23,619
DUSANIC, DONALD G	IMMUNOPHYSIOLOGICAL STUDIES ON TRYPANOSOMA LEWISI	RO1AI 07243-03	TMP	7,021

TABLE 2—RESEARCH GRANTS, BY AREA, INSTITUTION, AND PRINCIPAL INVESTIGATOR

INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRG	DOLLARS
KANSAS—(CON.)				
FAIMAN, MORRIS D	CENTRAL OXYGEN TOXICITY - NOREPINEPHRINE AND SEROTONIN	R01NB 07797-01	PHRA	13,998
FOX, J EUGENE	SPONTANEOUS CHEMICAL DIFFERENTIATION IN PLANT TISSUES	R01HD 01835-06	PC	19,484
FRASER, ROBIN T	ELECTRON TRANSFER BY CHAIN OR CHARGE-TRANSFER LIGANDS	R01GM 12958-03S1	MCHB	285
FRIEDMAN, HARVEY P	IMMUNOCHEMICAL STUDIES OF NEURAL DIFFERENTIATION	R01NB 07141-02	MBY	13,332
GRUNEWALD, GARY L	CHEMISTRY AND BIOLOGY OF 1,6-AZACYCLODECAPENTAEINES	R01GM 15517-01	MCHB	13,947
HERSH, ROBERT T	COMPARATIVE PHYSICAL BIOCHEMISTRY OF RIBOSOMES	R01GM 10866-09	B&C	26,711
HIGUCHI, TAKERU	INTERACTION OF ORGANIC MOLECULES IN WATER	R01GM 15910-01	MCHB	35,736
HIMES, RICHARD H	FORMYL-TETRAHYDROFOLATE SYNTHETASE	R01AM 07140-05	BIO	16,732
HUYSER, EARL S	HYDROGEN ATOM TRANSFER REACTIONS	R01AM 08517-04	MCHA	20,183
MAHER, MICHAEL J	THYROID AND TEMPERATURE IN REPTILES AND AMPHIBIANS	R01AM 06839-06	END	13,452
MERTES, MATHIAS P	FLUORINE IN MEDICINAL-FLUOROMETHYLPYRIMIDINES	R01CA 05639-08	MCHB	20,075
MERTES, MATHIAS P	METABOLIC INHIBITORS TETRAHYDROFOLIC ACID ANALOGS	R01CA 07522-04A1	MCHB	37,149
MICHEL, JOHN F	AN INVESTIGATION OF LARYNGEAL PERTURBATIONS	R01NB 07098-02	CMS	18,132
ROOFE, PAUL G	VASCULAR CHANGES IN JOINTS DUE TO LOW OXYGEN TENSION	R01NB 04992-06	PTHA	2,263
SAMSON, FREDERICK E	A STUDY OF CEREBRAL SUBCELLULAR PARTICLES	R01NB 03070-06S1	NEUB	5,780
SAMSON, FREDERICK E, JR	ENERGY METABOLISM OF NERVOUS TISSUE	R01NB 01151-12	NEUB	31,569
SANDERS, ROBERT B	THE ACTION OF HORMONES ON ACTIVE TRANSPORT PROCESSES	R01AM 11412-02	PHY	11,474
SCHIEFFELBUSCH, R L	PROGRAM FOR A RESEARCH CENTER IN MENTAL RETARDATION	P01HD 02528-02	HDP	123,078
SCHIEFFELBUSCH, RICHARD L	COMMUNICATION DISORDERS OF THE MENTALLY RETARDED	P01HD 00870-05	HDP	331,296
SCHIEFFELBUSCH, RICHARD L	A PROGRAM OF RESEARCH ON THE DEVELOPMENT OF CULTURALLY	P01HD 03144-01	HDP	200,729
SHERMAN, JAMES A	AN ANALYSIS OF MATCHING BEHAVIOR	R01HD 02674-02	DBR	17,868
SMISSMAN, EDWARD E	RESEARCH IN MEDICINAL CHEMISTRY	R01GM 09254-06S1	MCHA	7,893
SMISSMAN, EDWARD E	RESEARCH IN MEDICINAL CHEMISTRY	R01GM 09254-07	MCHB	39,198
SMISSMAN, EDWARD E	ADRENERGIC RECEPTOR SITES STEREOCHEMICAL APPROACHES	R01HE 08555-04	MCHB	32,117
SMISSMAN, EDWARD E	GENERAL RESEARCH SUPPORT GRANT	S01FR 05606-02	NSS	50,206
SOKAL, ROBERT R	RESEARCH IN STATISTICAL BIOLOGY	R01GM 11935-04	SSS	103,565
SWORD, CHRISTOPHER P	HOST-PARASITE INTERACTION OF LISTERIA MONOCYTOGENES	R01AI 04343-05S2	BM	1,501
SWORD, CHRISTOPHER P	HOST PARASITE INTERACTION OF LISTERIA MONOCYTOGENES	R01AI 04343-07	BM	23,772
WEIR, JOHN A	ANIMAL RESOURCE - INBRED AND MUTANT MOUSE STOCKS	P06FR 00343-02	GEN	11,628
WENGER, BYRON S	METABOLIC PATHWAYS IN EARLY CHICK EMBRYOS	R01HD 03474-05	HED	32,710
WENZEL, DUANE G	NICOTINE & ISOZYMES OF CULTURED HEART CELLS	R01HE 10492-03	TOX	18,962
INSTITUTION TOTAL	43	1,609,014		
MANHATTAN				
KANSAS STATE UNIVERSITY OF AGRICULTURE AND APPLIED SCIENCE				
CLEGG, ROBERT E	PHOSPHOPROTEINS OF THE BLOOD SERUM	R01HE 09628-03	PC	11,741
COLES, EMBERT H	ETIOLOGY AND PATHOLOGY OF PERINE GASTRIC ULCERS	R01AM 05082-07	PTHA	18,536
CONSIGLI, RICHARD A	BIOCHEMICAL STUDIES IN POLYOMA TRANSFORMED CELLS	R01CA 07139-06	VR	37,132
CORNELIUS, CHARLES E	MECHANISMS IN ORGANIC ANION EXCRETION BY THE LIVER	R01AM 11384-01S1	GMA	9,664
CORNELIUS, CHARLES E	MECHANISMS IN ORGANIC ANION EXCRETION BY THE LIVER	R01AM 11384-02	GMA	46,499
CRAIG, JAMES V	GENETIC INFLUENCES ON TRANSPLANTATION CHIMERAS	R01GM 11435-05	IMB	23,292
DENNIS, STANLEY M	MECHANISM OF ENDOTOXIN-INDUCED ABORTION	R01HD 02727-02	HED	11,429
ELEFThERIOU, BASIL E	AMYGDALOID REGULATION OF TROPIC HORMONE SECRETION	R01AM 11195-02	END	26,318
FEDDE, MARION R	NEUROMUSCULAR MECHANISMS	R01NB 05786-03A1	NEUB	25,066
KRUH, R F	BIOMEDICAL SCIENCES SUPPORT	S05FR 07036-03	NSS	40,534
LARK, KARL G	NORMAL ABNORMAL GROWTH IN BACTERIA AND OTHER CELLS	R01AI 05711-05	MBY	77,128
REITER, HARVARD	REPAIR AND RECOMBINATION OF BIOLOGICALLY ACTIVE DNA	R01CA 10338-02	BIO	17,491
ROTH, L EVANS	MICROSCOPY OF MITOTIC CELLS AND MOTILE SYSTEMS	R01HD 03462-01	CBY	37,204
RULIFFSON, W S	LIGANDS IN ENTERIC IRON TRANSPORT IN VIVO AND IN VITRO	R01AM 04969-06	GM	4,907
INSTITUTION TOTAL	14	386,941		
TOPEKA				
MENNINGER FOUNDATION				
MURPHY, GARDNER	GENERAL RESEARCH SUPPORT GRANT	S01FR 05517-06	NSS	83,312
INSTITUTION TOTAL	1	83,312		
WASHBURN UNIVERSITY OF TOPEKA				
BOYER, DON R	RESPIRATORY AND CARDIOVASCULAR STUDIES OF REPTILES	R01HE 11385-09	PHY	8,640
INSTITUTION TOTAL	1	8,640		
WICHITA				
WICHITA STATE UNIVERSITY				
IRWIN, ORVIS C	COMPARATIVE SPEECH BEHAVIOR OF BRAIN DAMAGED CHILDREN	R01NB 01899-09	CMS	15,766
INSTITUTION TOTAL	1	15,766		
STATE TOTAL	131	4,523,580		
KENTUCKY				
LEXINGTON				
KENTUCKY UNIVERSITY OF				
APOSTOLOPOULOS, APOSTOLOS X	MOLECULAR STRUCTURE OF HUMAN SALIVARY MUCOPROTEINS	R01DE 02447-03	PC	12,294
BICKLEY, HARMON C, JR	BIOREGULATION AND CONTROL OF COLLAGEN MATURATION	R01DE 02053-04	PTHB	27,805
BOHANNAN, HARRY M	GENERAL RESEARCH SUPPORT GRANT	S01FR 05314-07	NSS	80,755
BOLLUM, FREDERICK J	BIOSYNTHETIC POLYDEOXYNUCLEOTIDES	R01CA 08487-02S1	PC	4,437

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INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRG	DOLLARS
KENTUCKY—(CON.)				
BOLLUM, FREDERICK J	BIOSYNTHETIC POLYDEOXYNUCLEOTIDES	RO1CA 08487-03	PC	90,660
BRYANT, LESTER R	USE OF PARABIOSIS IN CARDIOPULMONARY FAILURE	RO1HE 10121-03	SGYA	29,237
BRYANT, LESTER R	POST-SURGICAL VENTILATION-BLOOD FLOW CHANGES	RO1HE 10413-02	SGYB	12,809
CHAN, SHUNG-KAI	BIOSYNTHESIS OF CYTOCHROME C AND ITS CONTROL MECHANISM	RO1GM 13726-03	BIO	27,352
CHRISTENSEN, GORDON J	CARIOSTATIC EFFECT OF COMMUNITY FLUORIDE MOUTHWASHES	RO1DH 00144-01	DEN	47,887
CONTI, SAMUEL F	BIOMEDICAL SCIENCES SUPPORT GRANT	S05FR 07114-01	NSS	36,887
CSAKY, T Z	A STUDY OF BIOLOGICAL TRANSPORT OF SUGARS	RO1GM 09825-08	MET	23,501
CSAKY, T Z	EFFECT OF SUGARS ON THE CENTRAL NERVOUS SYSTEM	RO1NB 03895-07	PHY	32,819
DIEDRICH, DONALD F	PHLORIZIN INHIBITION OF SUGAR TRANSPORT	RO1AM 06878-07	MET	40,146
ENGELBERG, JOSEPH	SYNCHRONIZATION OF CELL DIVISION OF MAMMALIAN CELLS	RO1CA 06835-06	CBY	27,262
GILLILAN, LOIS A	NERVOUS SYSTEM VASCULAR PATTERNS	RO1HE 06276-07	PTHA	13,430
GORDON, HELMUT A	PERIODONTAL DISEASE IN GNOTOBIOTIC ANIMALS	RO1DE 02351-03	OEN	36,583
GORDON, HELMUT A	REGULATORY EFFECTS OF THE NORMAL FLORA	RO1GM 13661-02	BM	41,216
GREENE, JOHN W, JR	URINARY ESTRIDIL INDEX OF THE FETOPLACENTAL COMPLEX	RO1HD 00637-05	HED	15,068
GRIFFEN, WARD O, JR	STUDIES IN HEPATIC FAILURE	RO1AM 10923-02	SGYA	58,016
GUTTMAN, BURTON S	CONTROL OF BACTERIOPHAGE DEVELOPMENT	RO1AI 07710-02	VR	19,519
HENOERSON, DAVIS	PATIENT RESPONSE TO VARIATIONS IN DENTURE TECHNIQUE	RO1OH 00094-02	OEN	47,011
HOLLAND, NANCY H	BETA1 C GLOBULIN IN NEPHRITIS	RO1AM 08853-03S1	PTHA	5,388
JOHNSON, ROBERT H	CAVITY MEDICATIONS IN RESTORATIVE DENTISTRY	RO1DE 02074-05	DEN	16,456
JORDAN, WILLIAM S, JR	GENERAL RESEARCH SUPPORT GRANT	S01FR 05374-07	NSS	212,830
KNAPP, DONALD E	PERIPHERAL NERVE TOLERANCE TO LOCAL ANESTHETIC ACTION	RO1NB 07401-02	PHRA	11,890
LAMBSON, ROGER O	E/M STUDY OF TRANSPORT SYSTEMS IN YOLK-SAC EPITHELIUM	RO1GM 02401-02	CBY	14,763
LESTER, ROBERT L	THE COMPOSITION OF THE LIPID OF RESPIRATORY PARTICLES	RO1GM 07627-08	PC	35,340
MABRY, C CHARLTON	DEVELOPMENT OF HIGH VOLTAGE ELECTROPHORESIS USES	RO1HD 00040-05	PTHB	15,960
MAGARIAN, EDWARD O	SYNTHESIS OF NEW SULFONES AND SULFOXIDES WITH ANTIMALAR	RO1AI 08678-01	MCHB	12,139
MANDELSTAM, PAUL	INTESTINAL AND RENAL TRANSPORT IN DIABETES	RO1AM 09679-03	MET	20,619
MATEER, RICHARD S	PHASE EQUILIBRIUM AND SETTING IN DENTAL AMALGAMS	RO1DE 02147-04	DEN	30,807
MORROW, DEAN H	ANESTHESIA AND HYPOXIC METABOLISM	RO1GM 14414-02	PHRA	13,814
MORROW, DEAN H	ANESTHESIA AND DIGITALIS TOXICITY	RO1HE 09612-03S1	PHRA	353
MORROW, DEAN H	ANESTHESIA AND DIGITALIS TOLERANCE	RO1NB 08331-04	PHRA	17,713
NIKITOVICH-WINER, MIROSLAVA-B	HYPOTHALAMIC INFLUENCE OF GONADOTROPHIN RELEASE	RO1AM 05086-07	END	23,104
PENMAN, ROBERT W	CHRONIC LUNG DISEASE STRUCTURE-FUNCTION ANALYSIS	PO1HE 08932-05	HEPA	212,233
PROFFIT, WILLIAM R	STUDIES OF THE INTRA-ORAL PRESSURE ENVIRONMENT	RO1HD 01906-03	DEN	22,316
REEVES, JOHN T	HYPOXIC PULMONARY HYPERTENSION	RO1HE 06780-07	CVB	41,425
RUSH, BENJAMIN F, JR	A STUDY OF PHYSIOLOGY AND THERAPY IN RENAL FAILURE	RO1AM 06956-07	SGYB	33,846
SAXE, STANLEY R	DEBRIS, CALCULUS AND PERIODONTAL DISEASE	RO1OH 00082-03	DEN	37,517
SCHAEFER, JOHN W	PREVENTION OF HEPATITIS AFTER CARDIOVASCULAR SURGERY	RO1HE 10226-02	SRC	29,315
SCHWERT, GEORGE W	CHARACTERIZATION AND SPECIFICITY OF ENZYME SYSTEMS	RO1GM 06635-09	BIO	32,822
SEIGEL, MALCOLM R	MECHANISM OF ACTION AND METABOLIC FATE OF FUNGICIDES	RO1ES 00227-02	TOX	20,919
SISKEN, JESSE E	METABOLIC SEQUENCES IN THE MITOTIC CYCLE	RO1CA 10375-02	CBY	47,428
SLAGEL, DONALD E	MICROCHEMISTRY AND ULTRASTRUCTURE OF NEUROGLIA	RO1NB 05771-04	NEUA	42,406
SURAWICZ, BORYS	ROLE OF ELECTROLYTES IN CARDIAC ARRHYTHMIAS	RO1HE 07359-06S1	CVB	11,280
TRAURIG, HAROLD H	CELL PROLIFERATION IN THE MAMMARY GLAND	RO1CA 10842-01	PTHB	14,491
TRAURIG, HAROLD H	CELL PROLIFERATION IN FEMALE GENITAL TRACT	RO1HD 01009-03S1	CBY	1,796
WALTON, KENNETH N	METABOLISM OF PROSTATIC CANCER	RO1CA 08786-03	PHRB	15,449
WAUGH, WILLIAM H	LOCAL CONTROL OF PERIPHERAL VASCULAR TONE	RO1HE 06092-08	PHY	23,157
WEEKS, PAUL M	STRUCTURAL ALTERATIONS OF COLLAGEN IN MATURING SCAR	RO1AM 09108-04	SGYB	24,027
WEKSTEIN, DAVID R	POSTNATAL DEVELOPMENT OF PHYSIOLOGICAL RHYTHMS	RO1HO 02738-02	AFY	16,544
WHEELER, HARRY E	PATHOLOGICAL CHANGES IN STRUCTURE AND FUNCTION	RO1ES 00319-01	BM	23,761
WHITE, DAVID C	FORMATION OF ELECTRON TRANSPORT SYSTEM IN HEMOPHILUS	RO1GM 10285-06	BIO	31,188
WILSON, CHARLES B	CULTIVATION AND TRANSPLANTATION OF HUMAN BRAIN TUMORS	RO1CA 07859-04	PHRB	25,071
WINER, ALFRED D	MECHANISM OF ACTION OF ENZYME-COENZYME COMPLEXES	RO1GM 05758-08	BIO	21,123
WINTERNITZ, WILLIAM W	GENERAL CLINICAL RESEARCH CENTER	M01FR 00158-04	CLR	427,569
ZECHMAN, FRED W, JR	TRANSIENT RESPIRATORY RESPONSE TO MECHANICAL LOADS	RO1HE 10628-02	PHY	16,748
INSTITUTION TOTAL	58	2,328,301		

LOUISVILLE

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ATIK, MOHAMMAD	A STUDY OF SHOCK IN THE PRESENCE OF LIVER DAMAGE	RO1HE 09431-04	PTHA	36,662
BAKER, CARLETON B	SIGNIFICANCE OF PERIPHERAL VASCULAR VOLUME CHANGES	RO1HE 11966-01	CVA	31,600
BERMAN, LEONARD B	CHEMICAL NATURE OF GLOMERULAR BASEMENT MEMBRANE	RO1AM 10876-02	PTHA	34,535
BRODSKY, WILLIAM A	RENAL TRANSPORT MECHANISMS FOR WATER AND SOLUTE	RO1AM 00461-17	PHY	21,000
BROMNER, FELIX	MINERAL METABOLISM IN POSTMENOPAUSAL OSTEOPOROSIS	RO1AM 07983-06	GMA	63,544
CANDIA, OSCAR A	FROG SKIN ELECTROPHYSIOLOGY	RO1GM 13953-02	PHY	18,422
CARRASQUER, GASPAR	ELECTROLYTE AND WATER FUNCTION OF THE KIDNEY	RO1AM 04618-06S2	PHY	4,030
COOKE, SAMUEL L, JR	ANALYTICAL METHODS FOR PATHOLOGICAL ENZYME STUDIES	RO1GM 15579-01	COM	59,910
DALLAM, R DUNCAN	ENZYME SYSTEMS IN MITOCHONDRIA AND NUCLEI	RO1HE 02102-13S1	BIO	2,278
DUNCAN, CHARLES H	THYROID HORMONES AND CHOLESTEROL METABOLISM	RO1HE 01946-14	MET	23,881
GANTHER, HOWARD E	BIOSYNTHESIS OF ORGANOSELENIUM COMPOUNDS	RO1AM 10692-03	NTN	15,670
GOLJAN, KENNETH R	MORPHOGENESIS OF HUMAN AND ANIMAL CLEFT PALATE	RO1DE 02523-02	DEN	17,269
HIGGINBOTHAM, ROBERT D	HORMONES AND RESPONSE TO STAPHYLOCOCCAL ENDOTOXIN	RO1AI 08353-01	BM	8,370
HOLT, J P	RESIDUAL VOLUME OF THE VENTRICLE	RO1HE 02075-14	CVA	67,272
HUANG, KEE C	THE MECHANISM OF RENAL TUBULAR AND INTESTINAL TRANSPORT	RO1AM 02217-10	PHY	23,950

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INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRG	DOLLARS
KENTUCKY—(CON.)				
JARBOE, CHARLES H	ACTIVE DERIVATIVES OF CYCLOBUTANECARBOXYLIC ACID	R01NB 07548-01	MCHA	15,175
JOHNSTON, PAUL B	IMMUNOLOGY AND UNMASKING OF SIMIAN FOAMY VIRUSES	R01AI 06494-04	VR	16,699
KIM, JAE N	CARBOHYDRATE METABOLISM IN PREGNANCY	R01HD 02342-02	MET	6,871
KOVACHEVICH, RUDY	SQUAMOUS CARCINOMA, PHYSIOLOGY AND IRRADIATION THERAPY	R01CA 10135-01A1	PTH8	59,200
LANG, CALVIN A	METALS AND NUCLEIC ACIDS IN MOSQUITO GROWTH AND AGING	R01HD 01522-04	TMP	24,650
LANG, CALVIN A	NUTRITION AND AGING IN MOSQUITO VECTORS	R22AI 08519-01	SSS	42,300
LEVY, ROBERT S	COMPOSITION OF PROTEINS FROM SERUM LIPOPROTEINS	R01HE 07907-05S2	BIO	15,150
LIU, PINGHUI V	HEMOLYSIN OF STAPHYLOCOCCI AND PSEUDOMONAS AERUGINOSA	R01AI 05283-04S1	BM	6,000
LIU, PINGHUI V	HEMOLYSINS OF STAPHYLOCOCCI AND PSEUDOMONAS AERUGINOSA	R01AI 05283-05	BM	33,722
LONGLEY, JAMES B	CORRELATIVE STUDIES ON RENAL STRUCTURE AND FUNCTION	R01AM 06867-06	PTHA	28,562
MAC MILLAN, DUNCAN R	PLACENTAL AND PITUITARY GROWTH FACTORS IN TWIN GROWTH	R01HD 02372-02	HED	23,224
MC CONNELL, KENNETH P	STUDIES ON SELENIUM-PROTEIN INTERRELATIONSHIP	R01AM 04445-07S1	MET	11,991
MC GEACHIN, ROBERT L	STUDIES ON AMYLASE CHARACTERIZATION AND PRODUCTION	R01AM 02610-10	BIO	16,620
MOORE, JAMES C	MECHANICS OF THE PULMONARY CIRCULATION	R01HE 07577-05S1	PHY	13,004
MOORE, JAMES C	MECHANICS OF THE PULMONARY CIRCULATION	R01HE 07577-06	PHY	21,863
MURRAY, MARVIN	ENZYMATIC INDUCTION OF ATHEROSCLEROSIS	R01HE 07655-05S1	PTHA	138
MURRAY, MARVIN	ENZYMATIC INDUCTION OF ATHEROSCLEROSIS	R01HE 07655-06	PTHA	18,713
MYERS, RAYMOND E	GENERAL RESEARCH SUPPORT GRANT	S01FR 05315-07	NSS	27,720
PAST, WALLACE L	GROWTH AND DISSOLUTION OF BONE CRYSTALS	R01AM 11460-02	GMB	14,480
PHILLIPS, JOHN P	NEW PHOTOCHROMIC COMPOUNDS	R01CA 07403-05	MCHA	13,927
PIRKLE, HUBERT C	SERUM THROMBOPLASTOGENIC ACTIVITY	R01HE 04932-09	HEM	30,404
RACCUGLIA, GIOVANNI	FACTORS IN THROMBOPLASTIN GENERATION	R01HE 08743-04S1	HEM	2,400
REISMAN, LEONARD E	EFFECT OF X-IRRADIATION ON CHROMOSOMES IN THE NEONATE	R01CA 08265-03	RAD	20,391
ROSEMAN, EPHRAIM	EXTRACRANIAL ARTERIAL OCCLUSION - JOINT STUDY	R01HE 07923-06	SRC	38,145
ROSEMAN, EPHRAIM	COOPERATIVE STUDY OF ACUTE SUBARACHNOID HEMORRHAGE	R01NB 02388-11	SSS	13,645
ROSTON, SIDNEY	CATECHOL AMINE -SH GROUP INTERACTION IN VIVO	R01AM 06525-05S1	PHRA	4,858
SCHARFF, THOMAS C	CARBOHYDRATE TRANSPORT AND METABOLISM IN THE LENS	R01NB 07510-01	VIS	20,275
SCHILB, THEODORE P	THE EFFECTS OF CHOLINERGIC AGENTS ON TURTLE BLADDER	R01AM 10659-02	PHY	13,612
SCHWARTZ, ANNE K	TRYPTOPHAN SYNTHETASE IN THE GENUS BACILLUS	R01AI 06959-03	MBC	10,310
SILVER, BURTON B	INSULIN EFFECTS ON MITOCHONDRIAL STRUCTURE AND FUNCTION	R01AM 11900-01	MET	37,075
SMITH, DONN L	GENERAL RESEARCH SUPPORT GRANT	S01FR 05375-07	NSS	186,647
SURWILLO, WALTER W	DEVELOPMENT OF THE EEG IN RELATION TO BEHAVIOR	R01HD 02395-02	PPR	19,373
SWIGART, RICHARD H	CHRONIC HYPOXIA EFFECT OF AGE ON ADAPTIVE RESPONSES	R01HE 04734-09	PHY	19,508
TAYLOR, JOHN F	SULFHYDRYL GROUPS AND PROPERTIES OF HEMOGLOBIN	R01AM 02831-16	BBCB	27,737
TAYLOR, K GRANT	AZIRIDINE ANALOGS OF THE MITOMYCINS	R01CA 10480-01	MCHA	18,100
TAYLOR, K GRANT	ALIPHATIC AZOXY COMPOUNDS ANALOGS OF CYCASIN	R01NB 07119-02	MCHB	10,185
WACKER, WALDON B	AUTO AND ISO-IMMUNE RESPONSE TO OCULAR TISSUES	R01NB 04747-05	IMB	29,656
WESTPHAL, ULRICH F	STUDIES ON CORTICOSTEROID BINDING PROTEINS	R01AM 04040-08	PC	18,833
WESTPHAL, ULRICH F	STERIOD-PROTEIN INTERACTIONS	R01AM 06369-07	END	24,430
WILSON, RONALD S	PSYCHOLOGICAL DEVELOPMENT AND BEHAVIOR GENETICS	R01HD 03217-01	CPR	99,365
WONG, JOHN L	STUDIES ON NUCLEIC ACID CONSTITUENTS	R01CA 10142-01A1	MCHB	15,575
INSTITUTION TOTAL	56	1,498,926		
STATE TOTAL	114	3,827,227		
LOUISIANA				
BATON ROUGE				
LOUISIANA STATE UNIVERSITY				
BENNETT, HARRY J	RATE OF ABSORPTION OF ENDRIN BY BLUEGILL SUNFISH	R01ES 00276-01	TOX	17,804
DIMOPOULLOS, GEORGE T	ANAPLASMOSIS IN CATTLE	R01AI 02250-10	TMP	33,914
JANNETTA, PETER J	SELECTIVE DEGENERATION STUDIES IN THE TRIGEMINAL NERVE	R01NB 07095-02	NEUA	16,637
LARSON, ALWORTH D	COMPARATIVE STUDY OF SPECIES OF CORYNEBACTERIUM	R01AI 02924-09	MBC	10,412
LEE, WILLIAM R	CHEMICALLY-INDUCED MOSAIC MUTATIONS IN DROSOPHILA	R01ES 00320-01	GEN	34,208
MACOMBER, JAMES D	NON-LINEAR OPTICAL BEHAVIOR OF BLEACHABLE ABSORBERS	R01NB 07891-01	RAD	17,677
REEVES, RICHARD E	INDUCED CHANGE IN CHARACTERISTICS OF PARASITIC AMEBAE	R01AI 02951-08	TMP	25,823
RISINGER, GERALD E	THE EFFECT OF THIAMINE ON THE BIOSYNTHESIS OF TERPENES	R01AM 11488-02	PC	13,861
SOCOLOFSKY, MARION D	THE CENTRAL BODY OF THE AZOTOBACTER CYST	R01AI 05551-05	MBC	12,636
SRINIVASAN, V R	PHYSIOLOGICAL CHANGES DURING BACTERIAL SPOROGENESIS	R01AI 07287-03	MBC	19,316
YOUNATHAN, EZZAT S	STUDIES ON EXPERIMENTAL DIABETES	R01AM 12817-01	MET	9,270
INSTITUTION TOTAL	11	211,558		
CARVILLE				
P H S BUREAU OF HEALTH SERVICES-P H S HOSPITAL				
KIRCHHEIMER, WALDEMAR F	CELL CULTURE OF MYCOBACTERIUM LEPRAE	R01AI 03636-08	BM	29,316
KIRCHHEIMER, WALDEMAR F	METABOLIC STUDIES AND CULTURE OF MYCOBACTERIUM LEPRAE	R22AI 07890-02	SSS	42,080
INSTITUTION TOTAL	2	71,396		
MONROE				
NORTHEAST LOUISIANA STATE COLLEGE				
SCHMIDT, GILBERT C	TOXICOLOGY AND METABOLISM OF DRUGS RELATED TO AGE	R01HD 03958-01	TOX	30,673
INSTITUTION TOTAL	1	30,673		

TABLE 2—RESEARCH GRANTS, BY AREA, INSTITUTION, AND PRINCIPAL INVESTIGATOR

INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRG	DOLLARS
LOUISIANA—(CON.)				
NATCHITOCHE				
NORTHWESTERN STATE COLLEGE OF LOUISIANA				
BIENVENU, RENE J	BRUCELLACIDAL ACTIVITY OF BOVINE SERUM	RO1AI 03368-08	ALY	13,672
JACKSON, J LESLIE	VASOACTIVE COMPOUNDS IN S AUREUS ALPHA TOXIN SHOCK	RO1AI 07848-01	BM	17,466
INSTITUTION TOTAL	2 31,138			
NEW ORLEANS				
ALTON OCHSNER MEDICAL FOUNDATION				
DE CAMP, PAUL T	COOPERATIVE STUDY OF RENOVASCULAR HYPERTENSION	RO1HE 06650-07	SRC	32,904
MOORE, CHARLES B	COOPERATIVE STUDY OF DRUGS AND CORONARY HEART DISEASE	RO1HE 10708-03	SRC	51,847
RAY, C THORPE	GENERAL RESEARCH SUPPORT GRANT	S01FR 05518-06	NSS	37,637
RICE, BERNARD F	STEROIDOGENESIS IN HUMAN ENDOCRINE TISSUE	RO1AM 09895-03	END	10,956
RICE, BERNARD F	HYPERCALCEMIA, STEROL METABOLISM AND NEOPLASIA	RO1CA 10865-01	GMB	53,672
SEGALOFF, ALBERT	COOPERATIVE STUDY OF BREAST CANCER	R10CA 03364-11A1	SRC	85,510
INSTITUTION TOTAL	6 272,526			
GULF SOUTH RESEARCH INSTITUTE				
SHELLENBERGER, THOMAS E	TOXICOLOGICAL STUDIES WITH JAPANESE QUAIL	RO1ES 00241-01S1	TOX	3,791
SHELLENBERGER, THOMAS E	TOXICOLOGICAL STUDIES WITH JAPANESE QUAIL	RO1ES 00241-02	TOX	41,429
SHELLENBERGER, THOMAS E	IN VIVO REACTIONS OF CHOLINESTERASE INHIBITORS	RO1ES 00297-01	TOX	30,572
SWEET, BENJAMIN H	IMMUNOLOGICAL CHARACTERIZATION OF DENGUE VIRUSES	R22AI 08208-01	SSS	191,140
INSTITUTION TOTAL	4 266,932			
LOUISIANA STATE BOARD OF HEALTH				
FREEDMAN, BEN	DIETARY-ATHEROSCLEROSIS STUDY ON DECEASED PERSONS	RO1HE 07836-05S1	NTN	4,829
INSTITUTION TOTAL	1 4,829			
LOUISIANA STATE UNIVERSITY				
ALBERT, HAROLD M	ROLE OF THE HEART IN SHOCK	RO1HE 09588-03	SGYA	27,912
BARBER, AELETA N	PATHOGENESIS OF OCULAR SIDEROSIS	RO1NB 07398-01	VIS	18,505
BERENSON, GERALD S	BIOCHEMISTRY OF CONNECTIVE TISSUE AND C-V STRUCTURES	RO1HE 02942-12	PC	86,338
BERLIN, CHARLES I	AUDITORY FUNCTION FOLLOWING TEMPORAL LOBECTOMY	RO1NB 07005-02	CMS	25,893
BERLIN, CHARLES I	HEARING AND VOCAL OUTPUT	RO1NB 07533-01	CMS	67,950
BICKERS, JOHN N	SOUTHWEST CANCER CHEMOTHERAPY STUDY GROUP UNIT	R10CA 08002-03S2	SRC	6,022
BLACKARD, WILLIAM G	STUDIES ON THE PATHOGENESIS OF DIABETES MELLITUS	RO1AM 10151-02S1	MET	2,639
BLACKARD, WILLIAM G	STUDIES ON THE PATHOGENESIS OF DIABETES MELLITUS	RO1AM 10151-03	MET	15,535
BORNSIDE, GEORGE H	ENHANCED VIRULENCE OF BACTERIA IN PERITONITIS	RO1AM 10727-02	SGYA	9,317
BUDDINGH, G JOHN	COMBINED VIRAL AND BACTERIAL INFECTION	RO1AI 01990-10	VR	32,326
CLEWE, THOMAS H	STUDIES ON REPRODUCTION OF THE TALAPOIN MONKEY	RO1FR 00398-01	PME	30,578
COHN, ISIDORE, JR	GERMFREE FACILITY - L S U SCHOOL OF MEDICINE	P06FR 00272-03	SSS	71,924
COHN, ISIDORE, JR	COLON SURGERY AND ANTIBIOTICS	RO1AI 01600-11	SGYA	42,629
COULSON, ROLAND A	FLUID & ELECTROLYTE STUDIES	RO1HE 02062-14	PHY	29,863
COWDEN, RONALD R	CYTOCHEMISTRY OF GROWTH AND DEVELOPMENT	RO1HD 02614-02S1	MBY	749
DAIGNEAULT, ERNEST A	PHARMACOLOGICAL INVESTIGATION OF THE COCHLEA	RO1NB 06261-03	CMS	12,481
FELSENFELD, OSCAR	CHOLERA IMMUNOLOGY IN NON-HUMAN PRIMATES	R22AI 07632-02	SSS	20,087
FOX, MARJORIE H	FACTORS AFFECTING CONGENITAL CARDIOVASCULAR DEFECTS	RO1HE 07001-07	GEN	32,908
FRYE, WILLIAM W	LSU INTERNATIONAL CENTER-MEDICAL RESEARCH AND TRAINING	RO7TW 00148-08	CIC	297,814
GRIFFIN, GARY W	STRAINED RING SYSTEMS ELECTRO-PHOTO-CHEMICAL SYNTHESIS	RO1GM 14667-02	MCHA	35,827
GUIDRY, DIEU-DONNE J	EFFECTS OF TEMPERATURE ON MYCOTIC INFECTIONS IN CHICK EM	RO1AI 05952-04S1	BM	2,332
HARRIS, A SIDNEY	CAUSES AND CONTROL OF CARDIAC ARRHYTHMIAS	RO1HE 01109-16	CVA	26,747
HOLMQUIST, NELSON D	IN VITRO STUDIES OF TRANSFORMATION IN A LYMPHOMA	RO1CA 08153-03	IMB	12,814
LILLIE, RALPH D	HISTOCHEMISTRY OF PIGMENTS AND CARCINOID TUMORS	RO1CA 04816-09	PTHB	69,046
MC GARRY, PAUL A	GEOGRAPHIC PATHOLOGY OF CEREBROVASCULAR DISEASE	RO1NB 04055-07	EDC	30,625
MC HARDY, GORDON	GASTRIC FREEZING IN DUODENAL ULCER PATIENTS	RO1AM 07539-04	SRC	30,152
MEYERS, ALBERT I	HETEROCYCLIC SYNTHESSES VIA NITRILES AND ENAMINES	RO1GM 06248-09	MCHB	43,830
MILLER, JOSEPH H	ULTRASTRUCTURE OF PARASITES	RO1AI 02347-09	TMP	13,038
ORIHEL, THOMAS C	DIROFILARIA INFECTION IN PRIMATES	RO1AI 06828-03	TMP	15,595
ORIHEL, THOMAS C	MEDICALLY IMPORTANT HELMINTHS OF LOWER PRIMATES	RO1AI 07675-02	TMP	17,889
RANDALL, HOWARD M	METABOLIC AND FUNCTIONAL EFFECTS OF RENAL ISCHEMIA	RO1HE 11987-01	PHY	14,789
REDETZKI, HELMUT M	METABOLIC REGULATORS IN ALCOHOLISM	RO1AM 09375-04	MET	18,938
SALVAGGIO, JOHN E	MECHANISMS OF IMMEDIATE AND DELAYED SENSITIVITY	RO1AI 05754-05	IMB	16,335
SCHEVING, LAWRENCE E	INVESTIGATIONS OF 24-HOUR PHYSIOLOGICAL RHYTHMS	RO1AM 12389-01	PHY	22,532
SKALKO, RICHARD G	EFFECT OF TERATOGENS ON THE EARLY EMBRYO	RO1HD 03288-01	HED	11,422
STRONG, JACK P	NATURAL AND EXPERIMENTAL ATHEROSCLEROSIS	P01HE 08974-03S1	HEP	8,331
STRONG, JACK PERRY	NATURAL AND EXPERIMENTAL ATHEROSCLEROSIS	P01HE 08974-04	HEP	319,200
SWARTZWELDER, J CLYDE	STUDIES ON CHAGAS DISEASE IN COSTA RICA	RO1AI 05938-05	TMP	29,402
THURBER, GEORGE A	GENERAL RESEARCH SUPPORT GRANT	S01FR 05376-07	NSS	212,886
TORRES, JOSE E	SOUTHWESTERN COOPERATIVE CHEMOTHERAPY GROUP	R10CA 10455-01	SRC	19,140
TREFONAS, LOUIS M	STRUCTURAL STUDIES OF SMALL RING NITROGEN COMPOUNDS	RO1GM 08348-08	MCHA	21,382
WARREN, LIONEL G	ENERGY METABOLISM OF ENDOPARASITIC ANIMALS	RO1AM 08799-04	TMP	22,080
ZIMNY, MARILYN L	METABOLIC STUDIES ON HIBERNATING GROUND SQUIRRELS	RO1AM 02027-10	MET	16,527
INSTITUTION TOTAL	43 1,862,329			

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INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRG	DOLLARS
LOUISIANA—(CON.)				
LOYOLA UNIVERSITY				
BEARD, ELIZABETH L	LYSOSOME RESPONSE TO DIETARY INDUCED ATHEROGENESIS	RO1HE 11298-02	HEM	17,454
HALPERIN, VICTOR	GENERAL RESEARCH SUPPORT GRANT	SQ1FR 05316-07	NSS	30,016
KHALAF, KAMEL T	CULICOIDES IN LOUISIANA (DIPTERA, CERATOPOGONIDAE)	RO1GM 12896-03	TMP	7,253
INSTITUTION TOTAL	3 54,723			
P H S BUREAU OF HEALTH SERVICES-P H S HOSPITAL				
BOUCHARD, RICHARD J	COOPERATIVE STUDY OF TREATMENT OF HYPERTENSION	RO1HE 10713-02	SRC	17,151
HERBERT, STEPHEN J	COOPERATIVE STUDY OF RENAL DISEASE AND HYPERTENSION	RO1HE 09754-04	SRC	21,514
HERBERT, STEPHEN J	COOPERATIVE STUDY OF DRUGS AND CORONARY HEART DISEASE	RO1HE 11380-02	SRC	44,517
HINMAN, EDWARD J	CALCIUM METABOLISM, VASOPRESSIN AND RENAL FUNCTION	RO1AM 07455-04A1	GMB	10,377
INSTITUTION TOTAL	4 93,559			
TULANE UNIVERSITY				
ADROUNY, GEORGE A	EFFECTS OF FASTING ON MUSCLE GLYCOGEN LEVELS	RO1AM 06210-05	MET	16,375
ALWORTH, WILLIAM L	THE DIMETHYLBENZIMIDAZOLE MOIETY OF VITAMIN B12	RO1AM 10067-03	MCHA	17,917
ARCOS, JOSEPH C	FINESTRUCTURAL ALTERATIONS IN CELL PARTICLES	RO1CA 05431-09	PTHB	37,920
ARGUS, MARY F	MECHANISM OF NITROSAMINE CARCINOGENESIS	RO1CA 05793-08	PHRB	23,583
ARIMURA, AKIRA	STUDIES ON THE NEUROHYPOPHYSIAL NEUROHORMONS	RO1AM 09094-03	END	34,697
BACH, L MATTHEW	HYPOTHALMIC REGULATION OF GROWTH AND FEEDING	RO1HD 00224-07	PHY	35,580
BAILLIF, RALPH N	AGING AND THE ANTI-CANCER DEFENSE MECHANISM	RO1CA 10263-02	PTHB	35,839
BEAVER, PAUL C	STUDIES ON HELMINTH AND AMEBIC INFECTIONS	RO1AM 04919-06	TMP	130,042
BEAVER, PAUL S	INTERNATIONAL CENTER FOR MEDICAL RESEARCH AND TRAINING	RO7TW 00143-08	CIC	501,124
BOWERS, CYRIL Y	HYPOTHALMIC THYROTROPIN-RELEASING-FACTOR	RO1AM 06164-06	END	47,376
BURCH, GEORGE E	PROGRAM PROJECT FOR STUDY OF CARDIOVASCULAR SYSTEM	PO1HE 06769-05S1	HEP	10,154
BURCH, GEORGE E	PROGRAM PROJECT FOR STUDY OF CARDIOVASCULAR SYSTEM	PO1HE 06769-06	HEPA	310,306
BURNS, KENNETH F	RESEARCH ANIMAL RESOURCES CENTER	PO6FR 00310-03	SSS	94,051
CARTER, MARY K	PHARMACOLOGICAL STUDY OF RENAL ELECTROLYTE TRANSPORT	RO1AM 12522-01	GMB	16,405
CLEMMER, DOROTHY I	AVIAN HOST RESPONSE TO AVIAN ADENOVIRUS INFECTION	RO1AI 07960-02	VR	34,333
COHEN, WILLIAM	STRUCTURE AND ACTIVITY OF PAPAEN	RO1HE 07769-06	BIO	46,014
COPELAND, D EUGENE	ULTRASTRUCTURE OF CELL ION TRANSPORT MECHANISMS	RO1GM 06836-09	CBY	31,429
CREECH, OSCAR, JR	AN INTEGRATED BIO-MEDICAL COMPUTING SYSTEM	PO7FR 00006-06	COM	87,262
DE WITT, CHARLES W	A STUDY OF TRANSPLANTATION OF TISSUE	PO1HE 09178-04	HEPA	318,538
DEENER, DAVID R	BIOMEDICAL SCIENCES SUPPORT	SO5FR 07040-03	NSS	61,131
DOMER, JUDITH E	CELL WALL STUDIES OF PATHOGENIC FUNGI	RO1AI 08588-01	BM	36,814
ESSLINGER, JACK H	FILARIASIS TISSUE RELATIONS AND SYSTEMATICS	RO1AI 08099-01	TMP	22,070
FERRANS, VICTOR J	CARDIAC PHOSPHOLIPIDS IN HEALTH AND DISEASE	RO1HE 06100-07	CVB	37,936
FRITCHIE, CHARLES J, JR	CONFIGURATION OF CHARGE-TRANSFER COMPLEXES	RO1GM 14189-02	BBCA	34,696
FUJIMOTO, JAMES M	NARCOTIC ANALGESICS TOLERANCE AND WATER BALANCE	RO1AM 06515-06	PET	12,892
FUJIMOTO, JAMES M	ALTERATION IN DRUG METABOLISM BY CERTAIN CARBAMATES	RO1GM 05514-10	PET	21,360
GERALL, ARNOLD A	HORMONAL AND NEURAL CORRELATES OF REPRODUCTIVE BEHAVIOR	RO1HD 06867-07	DBR	72,633
GOLDSMITH, GRACE A	GENERAL RESEARCH SUPPORT GRANT	SO1FR 05444-07	NSS	109,565
HAARSTAD, VERNON B	POLYMERIZATION OF PHARMACOPHORIC MOIETIES	RO1CA 03037-12	PHRB	56,146
HACK, MARVIN H	HISTOCHEMISTRY OF THE GENITO-URINARY SYSTEM	RO1AM 09088-04	PTHA	15,913
HANSEN, HANS J	B GROUP OF VITAMINS IN HUMAN NUTRITION	RO1AM 00001-22	NTN	74,295
HARKIN, JAMES C	ELECTRON MICROSCOPIC STUDY OF REGENERATION OF NERVES	RO1NB 04330-06	NEUB	48,238
HIBBS, RICHARD G	ELECTRON MICROSCOPY OF THE CARDIOVASCULAR SYSTEM	RO1HE 02490-11S1	PTHA	6,163
HIDALGO, JOHN U	MATHEMATICAL ANALYSIS OF THE RENOGRAM	RO1HE 10531-03	SRC	23,324
HOLLAND, MONTE G	PHYSIOLOGY AND PHARMACOLOGY OF AQUEOUS HUMOR FLOW	RO1NB 02212-09	VIS	35,194
HOLLAND, MONTE G	ELECTRORETINOGRAPHIC POTENTIAL FIELD ANALYSIS	RO1NB 04888-05	VIS	36,562
HUGGINS, GLYDE G	PHOSPHOINOSITIDE METABOLISM AND SECRETORY PHENOMENA	RO1NB 03973-05S1	PC	946
HYMAN, ALBERT L	PREVENTION OF ALTERED HEMODYNAMICS AFTER LUNG EMBOLUS	RO1HE 07516-06	SGYA	31,601
HYMAN, ALBERT L	CARDIOVASCULAR SURGICAL RESEARCH	RO1HE 11802-01	SGYA	73,867
JOLLIE, WILLIAM P	ELM VISUALIZATION OF PLACENTAL TRANSPORT	RO1HD 02279-05	HED	20,885
KASTIN, ABBA J	CONTROL OF MSH RELEASE AND ROLE OF MIF	RO1NB 07664-01	END	36,861
KIRGIS, HOMER D	CEREBRAL SEQUELAE TO VASCULAR PATHOLOGY AND ANOMALIES	RO1NB 04926-05	NEUA	8,158
KREMENTZ, EDWARD T	CANCER CLINICAL RESEARCH	PO2CA 05837-07	SSS	321,200
KREMENTZ, EDWARD T	CHEMOTHERAPY BY PERFUSION	RO1CA 03782-11	PHRB	52,470
KREMENTZ, EDWARD T	A STUDY OF LASER IN THE TREATMENT OF CANCER	RO1CA 08901-02	PTHB	35,474
KRUPP, IRIS MARIE	ANTIBODY RESPONSE IN INTESTINAL AMEBIASIS	RO1AI 07374-03	TMP	32,537
LONGENECKER, HERBERT E	OPERATION OF THE DELTA REGIONAL PRIMATE RESEARCH CENTER	PO6FR 00164-07	PME	1,328,019
LUMSDEN, RICHARD D	THE BIOLOGY OF HETEROPHYID METACERCARIAL ENCYSTMENT	RO1GM 13330-03	TMP	22,065
MACHNE, XENIA	NEURAL MEMBRANE ACTIVITY - RELATED STRUCTURAL CHANGES	RO1NB 04391-05S1	PHY	954
MACHNE, XENIA	NEURAL MEMBRANE ACTIVITY - RELATED STRUCTURAL CHANGES	RO1NB 04391-06	PHY	17,017
MATTESON, HALSEY H	METACONTRAST AND VISUAL PERCEPTUAL LATENCY	RO1NB 07078-02	VIS	27,921
MOGABGAB, WILLIAM J	CYTOPATHOGENIC AGENTS IN RESPIRATORY DISEASE	RO1AI 01131-12	VR	32,239
PINTER, KAROLY G	BLOOD LIPID LOWERING EFFECT OF NICOTINIC ACID	RO1HE 04150-10	NTN	65,280
REED, ADRIAN F	STUDIES OF CEREBRAL ANGIOARCHITECTURE	RO1NB 07203-02	NEUA	12,870
RICHARDSON, TRAVIS Q	FACTORS REGULATING CARDIAC OUTPUT	RO1HE 11146-01S1	CVA	20,780
RUTLEDGE, LEWIS J	HISTOPATHOLOGY OF TEMPORAL BONES	RO1NB 03782-07	CMS	31,608
SCHALLY, ANDREW V	NEUROCHEMISTRY OF THE DIENCEPHALON	RO1AM 07467-05	END	38,899
SCHALLY, ANDREW V	ISOLATION OF GROWTH HORMONE RELEASING FACTOR	RO1AM 08743-04	END	15,492
SCHLEGEL, JORGEN U	HYPERTENSION	RO1HE 04659-09	CVB	66,368

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INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRG	DOLLARS
LOUISIANA—(CON.)				
SCHNEIDAU, JOHN D, JR	CHEMICAL NATURE OF SKIN-SENSITIZING FUNGAL ANTIGENS	R01AI 07357-02	ALY	22,729
SCHOELLMANN, GUENTHER	THE ACTIVE SITE OF COLLAGENASE AND RELATED ENZYMES	R01NB 06760-02	BIO	37,127
SPARKS, ROBERT D	GENERAL RESEARCH SUPPORT GRANT	S01FR 05377-07	NSS	318,244
STERNBERG, WILLIAM H	HUMAN CHROMOSOMAL ANOMALIES	R01HD 00062-03S2	HED	1,570
STUCKEY, WALTER J	SOUTHWEST CANCER CHEMOTHERAPY COOPERATIVE STUDY	R10CA 03389-11	SRC	41,820
SWEENEY, JAMES W	COMPUTER ANALYSIS OF RADIOGRAPHIC IMAGES	R01GM 11619-03S1	CDM	2,270
UNGLAUB, WALTER G	METHODS FOR NUTRITION SURVEYS	R01AM 04345-07	NTN	51,556
VOLPE, E PETER	GENETIC ASPECTS OF TISSUE TRANSPLANTATION	R01GM 11782-05	IMB	25,516
WARING, WILLIAM W	PULMONARY DISEASE DUE TO CYSTIC FIBROSIS	R01AM 12752-01	CVB	27,508
WEIGANG, OSCAR E, JR	SPECTRA OF OPTICALLY ACTIVE COMPOUNDS	R01GM 11644-06	BBCA	31,992
WOODY, NORMAN C	HYPERLYSINEMIA STUDY OF LYSINE METABOLIC PATHWAY	R01HD 02920-02	MET	45,992
YEAGER, ROBERT G	EFFECTS OF HOST NUTRITION ON PARASITIC DISEASES	R01AI 00977-13	TMP	35,041
INSTITUTION TOTAL	71	5,468,753		
SHREVEPORT				
CONFEDERATE MEMORIAL MEDICAL CENTER				
EDDY, JAMES H, JR	COOPERATIVE STUDY OF BREAST CANCER THERAPY	R10CA 04828-08A1	SRC	10,300
INSTITUTION TOTAL	1	10,300		
STATE TOTAL	149	8,378,716		
MAINE				
BAR HARBOR				
JACKSON LABORATORY				
BAILEY, DONALD W	ANALYSIS OF THE MURINE HISTOCOMPATIBILITY GENE SYSTEM	R01GM 15574-02	GEN	38,892
BERNSTEIN, SELDON E	STUDIES OF NEONATAL BLOOD DISORDERS	R01HD 00254-08	HEM	28,800
BRONSON, FRANKLIN H	REGULATION OF REPRODUCTION IN RODENT POPULATIONS	R01HD 00767-05	REB	10,319
CHAI, C K	GENETIC BASIS OF HORMONE RESPONSE	R01CA 03108-12	GEN	43,282
CHAI, C K	GENETIC FACTORS AFFECTING BODY SIZE IN MICE	R01GM 05550-10	GEN	30,990
COLEMAN, DOUGLAS L	BIOCHEMISTRY OF PIGMENTATION AND INHERITED DISORDERS	R01CA 05873-07	GEN	36,509
FOX, RICHARD R	GENETIC STUDIES OF THE RABBIT	R01HD 01496-21	GEN	57,720
GREEN, EARL L	RABBIT INBRED AND MUTANT STOCKS RESOURCE	P0GFR 00251-03	GEN	81,004
GREEN, EARL L	GENERAL RESEARCH SUPPORT GRANT	S01FR 05545-06	NSS	171,602
HANCOCK, RONALD L	ALKYLATION OF NUCLEIC ACIDS IN NORMAL AND TUMOR CELLS	R01CA 10476-01	PTHB	28,291
HUMMEL, KATHARINE P	DEVELOPMENTAL ANOMALIES AND GENETIC CONSTITUTION	R01HD 00468-12	GEN	41,940
KALISS, NATHAN	IMMUNOLOGY OF CANCER	R01CA 01594-17	IMB	51,132
KANDUTSCH, ANDREW A	STERIOD METABOLISM IN TUMORS AND NORMAL TISSUES	R01CA 02758-13	MET	55,645
KANOUTSCH, ANDREW A	CHARACTERIZATION OF TISSUE ISOANTIGENS OF MICE	R01CA 07976-04	IMB	28,044
MEIER, HANS	THE PATHOGENESIS OF HEREDITARY NEUROLOGICAL DISORDERS	R01NB 06448-03	NEUB	27,007
MURPHY, EDWIN D	STAGES OF CARCINOGENESIS OF THE CERVIX UTERI IN MICE	R01CA 05985-07	PTHB	37,063
RODERICK, THOMAS H	GENETICS OF IRRADIATED MOUSE POPULATIONS	R01GM 07249-09	GEN	35,428
RUSSELL, ELIZABETH S	PHYSIOLOGICAL GENETICS OF THE MOUSE	R01CA 01074-18	GEN	87,585
SCHLAGER, GUNTHER	QUANTITATIVE GENETICS OF BLOOD PRESSURE	R01HE 09331-03S1	GEN	3,746
SNELL, GEORGE D	MECHANISMS OF RESISTANCE TO TUMOR TRANSPLANTS	R01CA 01329-18	GEN	151,395
STEVENS, LEROY C	ORIGIN AND DEVELOPMENT OF TESTICULAR TERATOMAS IN MICE	R01CA 02662-13	GEN	65,798
WERBOFF, JACK	PRENATAL MATERNAL STRESS AND BEHAVIORAL TERATOLOGY	R01HD 01019-04	NP	45,893
WERBOFF, JACK	CRITICAL PERIODS FOR DEVELOPING LEARNING CAPACITIES	R01HD 01082-03S1	EXP	12,778
WHITTEN, WESLEY K	ISOTOPIC STUDIES ON DEVELOPMENT OF MAMMALIAN EMBRYOS	R01HD 00473-12	HED	57,278
WIMER, RICHARD E	GENETICS OF BRAIN ANATOMY AND BEHAVIOR	R01HD 02491-02	EXP	45,392
INSTITUTION TOTAL	25	1,273,533		
ORONO				
MAINE UNIVERSITY OF				
COOK, JAMES R	GROWTH AND DIVISION IN SYNCHRONIZED CELL CULTURES	R01GM 12179-05	MBY	9,420
WHITEHILL, ALVIN R	IN VITRO STUDY OF FATTY ACID DEFICIENCY	R01AM 10970-02	CBY	9,703
INSTITUTION TOTAL	2	19,123		
PORTLAND				
MAINE MEDICAL CENTER				
BETTS, ANTHONY	THE ROLE OF NECROSIS IN CANCER CACHEXIA	R01CA 08100-04S1	PTHB	1,060
BETTS, ANTHONY	THE ROLE OF NECROSIS IN CANCER CACHEXIA	R01CA 08100-05	PTHB	7,670
RAND, PETER W	BLOOD VISCOSITY AND TISSUE OXYGENATION	R01HE 07984-06	SGYA	22,051
INSTITUTION TOTAL	3	30,781		
STATE TOTAL	30	1,323,437		
MARYLAND				
BALTIMORE				
ADVISORY COUNCIL AD HOC SUBCOMMITTEE ON HEAD INJURIES				
WALKER, EARL	PROGRAM DEVELOPMENT ON HEAD INJURIES	R01NB 07629-01S1	NSS	45,000
INSTITUTION TOTAL	1	45,000		
BALTIMORE CITY HOSPITALS				
BRANDES, DAVID	STUDY OF SENESCENCE AT THE CELL LEVEL	R01HD 00042-09	PTHB	27,647

TABLE 2—RESEARCH GRANTS, BY AREA, INSTITUTION, AND PRINCIPAL INVESTIGATOR

INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRG	DOLLARS
MARYLAND—(CON.)				
DUTTON, ROBERT E, JR	CONTROL OF RESPIRATION AND BLOOD GASES	RO1HE 11178-02	AFY	24,702
HUBBARD, FREDERIC G	GENERAL RESEARCH SUPPORT GRANT	SO1FER 05556-06	NSS	41,607
KRIZEK, THOMAS J	AGING RATES OF HETEROCHRONIC ISOGENIC TRANSPLANTS	RO1HD 03330-01	SGYA	40,234
MC QUEEN, J DONALD	BRAIN TUMOR LOCALIZATION WITH ISOTOPES	RO1CA 03265-12	RAD	13,272
MC QUEEN, J DONALD	CEREBRAL EDEMA DURING PROLONGED HYPOTHERMIA	RO1NB 01246-10	NEUA	30,475
REDDING, JOSEPH S	RESUSCITATION IN ACUTE CORONARY OCCLUSION	RO1HE 05439-08	SGYA	25,974
SCHUSTER, MARVIN M	SIMULTANEOUS MANOMETRIC & EMG STUDIES ON ANAL SPHINCTER	RO1AM 07862-05	SGYB	25,437
ZIEVE, PHILIP D	STORAGE OF THE HUMAN PLATELET	RO1HE 09102-04	HEM	47,793
INSTITUTION TOTAL	9	277,141		
GOUCHER COLLEGE				
HABERMANN, HELEN M	DEVELOPMENT AND AGING IN HELIANTHUS ANNUUS	RO1GM 13379-03	CBY	16,358
INSTITUTION TOTAL	1	16,358		
JOHNS HOPKINS UNIVERSITY				
AINSWORTH, MARY D	THE DEVELOPMENT OF INFANT-MOTHER ATTACHMENT	RO1HD 01712-03	CPR	46,057
ALLEN, JAMES C	QUANTITATIVE STUDY OF HYPERSENSITIVITY REACTIONS IN VIVO	RO1AI 07677-02	IMB	19,489
ANDERSON, NORMAN D	GRAFT-VS-HOST REACTIONS IN GUINEA PIGS	RO1AI 08484-01	IMB	36,674
ANDRUS, E COWLES	PSYCHOGENIC FACTORS IN CARDIOVASCULAR FUNCTIONS	PO1HE 06945-07	HEP	217,262
ANDRUS, E COWLES	PLANNING THE DEVELOPMENT OF A CARDIOVASCULAR CENTER	RO1HE 11464-02	HEPA	75,439
ARNOLD, EUGENE A, JR	PROTEIN BIOSYNTHESIS IN NEOPLASIA	RO1CA 08306-04	PTHB	45,545
AVERY, MARY E	RESPIRATORY STUDIES IN THE NEWBORN PERIOD	RO1HD 00281-08	CVA	22,120
BAETJER, ANNA M	BODY WATER AND TOXICITY OF ORGANIC CHEMICALS	RO1ES 00144-02	TOX	16,771
BANG, FREDERIK B	RELATIONSHIP OF VIRUSES TO TUMORS	RO1CA 01230-18	VR	32,911
BANG, FREDERIK B	INTERNATIONAL CENTER FOR MEDICAL RESEARCH & TRAINING	RO7TW 00141-08	CIC	483,062
BARNES, ALLAN C	STUDY CENTER FOR INTRA-UTERINE DEVELOPMENT	PO1HD 01760-03	HDP	77,103
BAYLESS, THEODORE M	HUMAN INTESTINAL DISACCHARIDASES AND MUCOSAL INJURY	RO1AM 10581-03	GMA	28,021
BEER, MICHAEL	E M STUDIES OF NUCLEIC ACID STRUCTURES	RO1GM 08968-07	BBCA	58,881
BERGER, HILLARD	BACTERIOPHAGE RECOMBINATION	RO1AI 08161-01	VR	38,734
BERGMAN, RONALD A	STUDIES OF NORMAL, DEGENERATING AND DYSTROPHIC MUSCLE	RO1NB 04096-07	NEUB	22,953
BESSMAN, MAURICE J	ENZYMATIC SYNTHESIS OF PRECURSORS OF DNA	RO1CA 04088-10	PC	35,961
BIGGERS, JOHN D	STUDIES ON THE PHYSIOLOGY OF EARLY PREGNANCY	RO1HD 03077-01	REB	13,680
BLACK, PERRY	CHILD HEAD INJURY PROJECT	RO1NB 07494-01	NEUA	60,540
BLEDSE, TURNER	HEPARIN EFFECT ON ADRENAL/STUDY OF STEROID SULFATES	RO1AM 11607-02	END	15,561
BLIZZARD, ROBERT M	STUDIES OF PITUITARY HORMONES IN HYPOPITUITARISM	RO1HD 01852-04	END	18,221
BODIAN, DAVID	STRUCTURE & FUNCTIONAL DEVELOPMENT OF SYNAPSES	RO1NB 07935-01	NEUB	42,968
BOITNOTT, JOHN K	SATURATED HYDROCARBONS IN HUMAN TISSUES	RO1ES 00304-01	PTHB	24,708
BORDLEY, JOHN E	SUPPORT FOR EASTERN TEMPORAL BONE BANKS CENTER	PO1NB 06346-03	CMS	19,094
BORDLEY, JOHN E	EFFECT ON HEARING OF TROPICAL AND NUTRITIONAL DISEASES	RO1NB 03649-07	CMS	13,835
BOYER, SAMUEL H	QUANTITATIVE GENETIC CONTROL OF PROTEIN SYNTHESIS	RO1HD 02508-02	GEN	68,031
BRAND, LUDWIG	FLUORESCENCE IN STUDIES OF ENZYME MECHANISMS	RO1GM 11632-05	PC	38,047
BRANDES, DAVID	FUNCTIONAL ULTRASTRUCTURE OF ENDOCRINE-RELATED TUMORS	RO1CA 08518-03	PTHB	42,922
BRINLEY, FLOYD J, JR	ION FLUXES IN NERVE AND MUSCLE	RO1NB 08336-08	PHY	30,085
BUEDING, ERNEST	COMPARATIVE BIOCHEMISTRY OF PARASITIC HELMINTHS	RO1AI 03515-09	TMP	52,158
BUEDING, ERNEST	PRENATAL GLYCOGENS - CHARACTERIZATION AND METABOLISM	RO1HD 02367-02	MET	15,047
BUEDING, ERNEST	METABOLISM OF SMOOTH MUSCLE	RO1HE 05268-09	PC	62,055
BUEDING, ERNEST	SCHISTOSOMIASIS RESEARCH CENTER	R22AI 08022-01	SSS	111,065
BURNETT, LONNIE S	IN VITRO MATERNO-FETAL TRANSFER OF IMMUNOGLOBULINS	RO1HD 01958-03	ALY	8,401
BYRNE, RAYMOND W	A STUDY OF THE LAC GENE REPRESSOR	RO1AM 10813-02	MBC	23,950
CARLSON, FRANCIS D	STRUCTURAL BASIS OF CELLULAR FUNCTION	RO1AM 12803-11	BBCB	34,911
CARLSON, FRANCIS D	A STUDY OF MUSCULAR CONTRACTION	RO1GM 03723-14S1	PHY	783
CARLSON, FRANCIS D	A STUDY OF MUSCULAR CONTRACTION	RO1GM 03723-15	PHY	23,508
CARPENTER, CHARLES C	STUDIES IN AN EXPERIMENTAL MODEL OF CHOLERA	R22AI 07625-02	SSS	115,201
CARVER, DAVID H	VIRAL INHIBITION AND NONCYTOPATHIC VIRUSES	RO1AI 08225-03	VR	36,790
CEBRA, JOHN J	STRUCTURE OF PRODUCTS OF ANTIGEN-ANTIBODY INTERACTION	RO1AI 07653-02	ALY	41,475
CHEEK, DONALD B	THE PHYSIOLOGY OF GROWTH, NORMAL AND ABNORMAL	RO1HD 00126-05	SSS	118,330
CHILDS, BARTON	STUDIES IN HUMAN GENETICS	RO1HD 00486-13	GEN	34,185
CHOW, BACON F	MATERNAL NUTRITION AND DEVELOPMENT OF THE OFFSPRING	RO1HD 00436-05S1	HED	6,000
CHOW, BACON F	STUDIES OF BEHAVIOR IN THE PROGENY OF UNDERFERD MOTHERS	RO1HD 02984-02	EXP	26,555
COLEMAN, WILLIAM	HEREDITY AND VARIATION IN EARLY MENDELIAN GENETICS	RO1GM 12501-03S1	GEN	486
CONLEY, C LOCKARD	ABNORMAL HEMOGLOBINS	RO1HE 02799-12	HEM	62,771
COOKE, ROBERT E	RESEARCH PROGRAM ON CYSTIC FIBROSIS	PO1AM 06278-06	AMP	82,615
CORWIN, ALSOPH H	THE COMPLEXING OF IRON WITH PORPHYRINS	RO1AM 02877-10	BBCB	18,403
CORWIN, ALSOPH H	INHIBITION OF CLOTTING BY RICIN	RO1HE 07496-06	HEM	17,884
COWAN, DWAIN E	TRIPLET ENERGY TRANSFER WITH SUBSEQUENT REACTION	RO1GM 12988-03	BBCA	13,662
DANNENBERG, ARTHUR M, JR	CELL BIOLOGY OF INJURY, INFLAMMATION AND REPAIR	RO1AI 07263-03	PTHA	52,132
DE LORENZO, A J D	ELECTRON MICROSCOPY OF NEURAL RECEPTOR CELLS	RO1NB 02173-09	CBY	21,494
DE VOE, ROBERT D	ANALYSIS OF FLICKER RETINAL ACTION POTENTIALS	RO1NB 03750-07	VIS	11,839
DICKERMAN, HERBERT W	FOLATE-B12 METABOLISM IN NORMAL AND PATHOLOGICAL CELLS	RO1AM 10646-02	HEM	25,409
DONNER, MARTIN W	CINEFLUOROGRAPHIC STUDIES OF GUT MOTILITY	RO1AM 04676-07	GM	16,811
DONNER, MARTIN W	RADIOANGIOGRAPHY & CIRCULATION IN PRIMATE PLACENTA	RO1HD 01509-04	HED	9,342
DOWLING, JOHN E	STRUCTURE AND FUNCTION OF VERTEBRATE VISUAL SYSTEMS	RO1NB 05336-05	VIS	38,668
EDIDIN, MICHAEL	CHEMISTRY OF TRANSPLANTATION ANTIGENS	RO1AM 11202-02	ALY	24,212
EGBERT, LARRE N	MOLECULAR BIOLOGY OF THE DNA OF BACTERIOPHAGE T03	RO1GM 14884-02	PC	24,431

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INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRG	DOLLARS
MARYLAND—(CON.)				
FREEMAN, RUTH B	FACULTY RESEARCH DEVELOPMENT PROGRAM	RO2NU 00154-04	NR	26,573
GAMBLE, JAMES L, JR	MITOCHONDRIA AND ACTIVE TRANSPORT	RO1AM 01775-11	MET	24,887
GESSNER, URS	BLOOD FLOW IN NONHOMOGENEOUS AND NONLINEAR VESSELS	RO1HE 07383-06	CVA	34,636
GOLDSTEIN, MOISE H, JR	NEURAL ENCODING OF PATTERNED ACOUSTIC STIMULI	RO1NB 05143-05	CMS	129,152
GOTT, VINCENT L	CARDIOVASCULAR SURGERY	RO1HE 00226-17	SGYA	53,319
GOTT, VINCENT L	INTRACARDIAC VALVULAR PROSTHESES	RO1HE 09997-04	SGYA	68,235
GOTTERER, GERALD S	ROLE OF LIPID IN THE CONTROL OF ENZYMIC ACTIVITY	RO1HE 10638-02	PC	19,075
GRAHAM, GEORGE G	INFANTILE DIARRHEA AND MALNUTRITION	R22AM 09980-03	SSS	122,069
GREENAWALT, JOHN W	STRUCTURE AND FUNCTION OF MITOCHONDRIAL MEMBRANES	RO1GM 12125-04	MBY	36,412
GREENMAN, DAVID L	REGULATION OF UTERINE RNA AND PROTEIN METABOLISM	RO1AM 09324-04	PC	27,551
HACKENBROCK, CHARLES R	ENERGY-LINKED ULTRASTRUCTURAL CHANGES IN MITOCHONDRIA	RO1GM 14483-02	MBY	43,943
HALLER, J ALEX, JR	PATHOGENESIS OF RUNT DISEASE	RO1HE 10047-03S1	IMB	649
HAMBRICK, GEORGE W, JR	KERATINIZATION OF HUMAN SKIN IN VITRO	RO1CA 10049-03	GMA	25,057
HARDMAN, JOHN K	ACTIVE SITES OF BACTERIAL TRYPTOPHAN SYNTHETASES	RO1AI 06766-04	MBC	25,678
HARDY, PAUL H	STUDY OF THE BIOLOGY OF TREPONEMES AND TREPONEMAL INFEC	RO1AI 02336-10	BM	81,407
HARRINGTON, WILLIAM F	BIOPHYSICAL CHEMICAL STUDIES ON FIBROUS PROTEINS	RO1AM 04349-08	BBCA	170,301
HARRISON, HAROLD E	CALCIUM AND PHOSPHATE TRANSPORT	RO1AM 00668-14	NTN	29,808
HARTMAN, PHILIP E	GENETIC MECHANISMS AND GENE ACTION IN BACTERIA	RO1AI 01650-11	GEN	80,384
HARVEY, A MC GEHEE	LUPUS ERYTHEMATOSUS IN FALSE-POSITIVE REACTORS	RO1AI 01420-15	IMB	10,427
HARVEY, A MC GEHEE	NEUROMUSCULAR FUNCTION IN NORMAL MAN AND IN DISEASE	RO1NB 00894-12S1	NEUA	3,177
HARVEY, A MC GEHEE	NEUROMUSCULAR FUNCTION IN NORMAL MAN AND IN DISEASE	RO1NB 00894-13	NEUA	33,736
HEATH, EDWARD C	CHEMISTRY AND METABOLISM OF POLYSACCHARIDES	RO1AM 08318-05	PC	70,905
HELLERMAN, LESLIE	ENZYMIC AND SYNTHETIC STUDIES RELATING TO CANCER	RO1CA 03186-12	BIO	43,485
HEPTINSTALL, ROBERT H	EXPERIMENTAL PYELONEPHRITIS LOCAL FACTORS	RO1HE 07835-07	PTHA	61,004
HERRIOTT, ROGER M	THE MECHANISM OF BACTERIAL TRANSFORMATION	RO1AI 01218-12	GEN	32,453
HOLTZMAN, NEIL A	RELATION OF COPPER TO CERULOPLASMIN BIOSYNTHESIS	RO1AM 12237-01	MET	30,095
HOWARD, EVELYN	BIOLOGICAL EFFECTS OF STEROIDS	RO1AM 02679-13	END	10,306
HOWARD, JOHN E	CALCIUM METABOLISM AND SKELETAL PHYSIOLOGY	RO1AM 04247-08	GM	68,893
HOWELL, RALPH RODNEY	BIOLOGICAL REGULATION IN MAMMALIAN METABOLISM	RO1AM 09251-03	MET	19,751
HUANG, RU-CHIH C	PHYSICAL AND BIOLOGICAL STUDIES OF NUCLEOPROTEIN	RO1GM 13723-03	BIO	27,841
HUME, JOHN C	GENERAL RESEARCH SUPPORT GRANT	SO1FR 05445-07	NSS	278,404
IBER, FRANK L	PREVENTION OF HEPATITIS AFTER CARDIOVASCULAR SURGERY	RO1HE 10354-02	SRC	30,122
JACKSON, DUDLEY P	BLOOD COAGULATION AND HEMORRHAGIC DISEASE	RO1HE 01601-20	HEM	47,015
JOHNS, RICHARD J	BIOMEDICAL ENGINEERING RESEARCH PROGRAM	PO1GM 10895-05S1	GMP	16,900
JOHNS, RICHARD J	BIOMEDICAL ENGINEERING RESEARCH PROGRAM	PO1GM 10895-06	GMP	132,440
JOHNS, RICHARD J	RESEARCH ON COMPUTER PROCESSING OF BIOMEDICAL DATA	RO1GM 15898-01	COM	106,896
KARMEN, ARTHUR	MICROANALYSIS USING GAS CHROMATOGRAPHY	RO1GM 11535-04S1	MCHB	2,763
KARMEN, ARTHUR	MICROANALYSIS USING GAS CHROMATOGRAPHY	RO1GM 11535-05	MCHB	44,259
KLOENE, WILHELM	TRACK STRUCTURES IN MEASLES GIANT CELLS	RO1AI 06823-03	PTHB	16,459
KOUWENHOVEN, WILLIAM B	TRAUMATIC AND THERAPEUTIC EFFECTS OF ELECTRICITY	RO1HE 02709-12	CVA	38,288
KROVETZ, L JEROME	DYNAMICS OF ARTERIAL BRANCHING	RO1HE 12036-01	CVB	15,761
LANGHAM, MAURICE E	THE PHYSIOLOGY OF THE CORNEA	RO1NB 04854-05	VIS	59,490
LANGHAM, MAURICE E	THE REGULATION OF THE INTRAOCULAR PRESSURE	RO1NB 06561-03	VIS	47,864
LARRABEE, MARTIN G	METABOLISM AND FUNCTION IN SYMPATHETIC NEURONS	RO1NB 00702-14	PHY	43,113
LEE, YUAN C	CARBOHYDRATE GROUPS IN GLYCOPROTEIN ENZYMES	RO1AM 09970-03	BIO	24,486
LEHNINGER, ALBERT L	ENZYMIC ACTIVITIES OF MITOCHONDRIA	RO1GM 05919-10	PC	180,300
LENNARZ, WILLIAM J	LIPAMINO ACID AND GLYCOLIPID METABOLISM IN BACTERIA	RO1AI 06888-03	MBC	31,890
LEVIN, EPHRAIM Y	ENZYMIC FORMATION OF BILE PIGMENTS	RO1NB 05367-04	PC	14,883
LEVY, DAVID A	THE ROLE OF REAGINIC ANTIBODY IN RAGWEED HAY FEVER	RO1AI 08104-01	IMB	34,200
LICHTENSTEIN, LAWRENCE M	IN VITRO STUDIES OF HUMAN ANAPHYLAXIS	RO1AI 07290-03	IMB	23,279
LICHTENSTEIN, LAWRENCE M	AN IN VITRO APPROACH TO PROBLEMS OF CLINICAL ALLERGY	RO1AI 08270-01	IMB	29,697
LILIENTHAL, ABRAHAM M	PROGRAM PROJECT TO STUDY CEREBROVASCULAR DISEASES	PO1NB 06229-02S1	SRC	4,393
LILIENTHAL, ABRAHAM M	PROGRAM PROJECT STUDY THE CEREBROVASCULAR DISEASES	PO1NB 06229-03	SRC	328,200
LOVE, WARNER E	X-RAY STRUCTURE ANALYSIS OF BIOLOGICAL MOLECULES	RO1AM 02528-09	BBCB	40,777
MAC NICHOL, EDWARD F, JR	MECHANISM OF VISION	RO1NB 03582-06	VIS	40,142
MAGLADERY, JOHN W	CORRELATIVE REFLEX STUDIES IN MAN AND ANIMALS	RO1NB 00367-18	NEUB	6,863
MARGOLIS, SIMEDON	STUDIES ON HUMAN SERUM LIPOPROTEINS	RO1HE 09596-04	PC	22,347
MATTOON, JAMES R	GENETIC MODIFICATION OF YEAST AND MITOCHONDRIA	RO1GM 15884-03	BIO	17,006
MAYER, MANFRED M	NATURE OF COMPLEMENT AND ITS MECHANISM OF ACTION	RO1AI 02566-09	ALY	28,047
MC ELROY, WILLIAM D	SUPPORT OF RESEARCH LABORATORY ANIMAL RESOURCES	PO6FR 00414-01	AR	73,343
MC ELROY, WILLIAM D	QUANTUM YIELDS IN ENZYME CATALYZED LIGHT REACTIONS	RO1GM 10863-09	PC	38,176
MC ELROY, WILLIAM D	BIOMEDICAL SCIENCES SUPPORT	SO5FR 07041-03	NSS	87,609
MC INTYRE, PATRICIA A	GENETIC AND AUTO-IMMUNE FACTORS IN PERNICIOUS ANEMIA	RO1AM 08782-04	IMB	32,112
MC KUSICK, VICTOR A	GENETIC DISEASE CHROMOSOMAL MAPPING AND ETHNICITY	RO1GM 10189-06	GEN	136,756
MC KUSICK, VICTOR A	THE GENETICS AND BASIC DEFECT OF ATLETIC DWARFISM	RO1HD 02422-03	END	22,855
MIGEON, CLAUDE J	RELATION OF ENDOCRINE GLANDS TO GROWTH O DEVELOPMENT	RO1AM 00180-17	END	58,366
MOLLER, WIM J	STRUCTURE OF RIBOSOMES & ITS ROLE IN PROTEIN BIOSYNTHESIS	RO1GM 14086-02	BBC	5,290
MONEY, JOHN	LONGITUDINAL AND RELATED PSYCHOHORMONAL STUDIES	RO1HD 00325-12	EXP	35,209
MORGAN, WILLIAM W, JR	EXPERIMENTAL INTRAHEPATIC BILIARY ATRESIA	RO1AM 11218-02	SGVB	18,503
MORRIS, RUSSELL E, JR	METABOLIC RESPONSES TO PULSATILE CHANGES IN BLOOD FLOW	RO1HE 10725-02	CVA	46,202
MOUDRIANAKIS, EVANGELOS N	STUDIES ON NUCLEIC ACIDS AND NUCLEOPROTEINS	RO1GM 13518-03	PC	28,443
MOUNTCASTLE, VERNON B	NEUROPHYSIOLOGY SENSORY SYSTEMS AND CEREBRAL CORTEX	PO1NB 06828-02	NBPA	144,354
NAGER, GEORGE T	A HISTOPATHOLOGIC STUDY OF HUMAN TEMPORAL BONES	RO1NB 02182-09	CMS	58,115

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MARYLAND—(CON.)				
NASON, ALVIN	METABOLIC ROLE OF VITAMIN E	R01AM 05923-07	PC	23,910
NASON, ALVIN	ENZYMOLGY OF NITRATE RESPIRATION AND ASSIMILATION	R01GM Q2332-18	PC	29,562
NATHANS, DANIEL	PROTEIN SYNTHESIS	R01GM 10180-06	BIO	38,712
NATHANSON, NEAL	PATHOGENESIS OF ARBOVIRUS ENCEPHALITIS	R01NB 05363-04	VR	50,609
NATHANSON, NEAL	VIRAL HEMORRHAGIC ENCEPHALITIS	R01NB 07019-02	VR	35,305
NICKON, ALEX	STERIC AND KINETIC FACTORS IN TERPENE CYCLIZATIONS	R01GM 06304-09	MCHA	28,650
NICKON, ALEX	PHOTOSENSITIZED OXYGENATIONS	R01GM 09693-07	MCHA	37,388
NORMAN, PHILIP S	A STUDY OF ALLERGY TO RAGWEED POLLEN	R01AI 04866-06	IMB	21,020
O CONNOR, JOHN S	A CYTOCHEMICAL STUDY OF BRAIN TISSUE	R01NB 06144-03	NEUB	45,602
ODELL, GERARD B	MATURATION OF LIVER METABOLISM OF AGLYCONES	R01HD 02268-03	MET	20,189
OSLER, ABRAHAM G	STUDIES ON MECHANISMS OF HYPERSENSITIVITY PHENOMENA	R01AI 03151-09	IMB	19,735
OWENS, ALBERT H, JR	INTEGRATED CLINICAL CANCER RESEARCH PROGRAM	P02CA 06973-06	SSS	610,745
PARR, ROBERT G	THE QUANTUM THEORY OF MOLECULAR ISOELECTRONIC CHANGES	R01GM 14470-02	BBCB	27,523
PATZ, ARNALL	STUDIES ON THE RETINA AND RETINAL VESSELS	R01NB 02198-09	VIS	31,801
PATZ, ARNALL	DIABETIC RETINOPATHY	R01NB 04446-05	VIS	43,223
PIERCE, NATHANIEL F	GASTROINTESTINAL PATHOPHYSIOLOGY IN ASIATIC CHOLERA	R22AI 07628-02	SSS	20,145
PINCHOT, GIFFORD B	MECHANISMS OF OXIDATIVE PHOSPHORYLATION	R01AI 02443-10	PC	29,190
POLJAK, ROBERTO J	X-RAY CRYSTALLOGRAPHIC STUDY	R01AI 08202-01	BBCB	57,944
PRENDERGAST, ROBERT A	CELLULAR SPECIFICITY IN DELAYED HYPERSENSITIVITY	R01AI 06927-03	ALY	13,443
PRICE, WINSTON H	STUDIES ON AN ATTENUATED JAPANESE ENCEPHALITIS VACCINE	R22AI 07987-02	SSS	34,882
PROUT, THADDEUS E	THE RELATION OF TREATMENT TO DIABETIC COMPLICATIONS	R01AM 04403-08	SSS	44,961
RABINOWITZ, DAVID	INSULIN, GROWTH HORMONE EFFECTS ON FOREARM METABOLISM	R01AM 11961-01	MET	15,061
RAFFERTY, KEEN A, JR	CULTURE STUDIES WITH AMPHIBIAN CELL STRAINS	R01CA 06008-07	VR	16,343
RAFFERTY, NANCY S	CELLULAR INTERACTIONS IN INJURED LENS EPITHELIUM	R01NB 07813-01	CBY	9,054
REISSIG, MAGDALENA	ELECTRON MICROSCOPY OF SCHISTOSOMES	R22AI 07806-02	SSS	22,254
RILEY, RICHARD L	CARDIOVASCULAR, PULMONARY AND BEHAVIORAL STUDIES	P01HE 10342-03	HEP	279,256
ROBINSON, ROBERT A	ELECTRON MICROSCOPE STUDIES OF CARTILAGE AND BONE	R01AM 00706-14	CBY	22,594
ROBINSON, ROBERT A	EXPERIMENTAL STUDIES ON STIMULATION OF BONE FORMATION	R01AM 04993-07	SGYB	19,560
ROGERS, DAVID E	GENERAL CLINICAL RESEARCH CENTERS	M01FR 00035-08	CLR	460,063
ROGERS, DAVID E	GENERAL CLINICAL RESEARCH CENTER - CHILDREN	M01FR 00052-07	CLR	120,318
ROSEMAN, SAUL	BIOCHEMISTRY OF COMPLEX CARBOHYDRATES	R01AM 09851-03	PC	303,834
ROSENQUIST, GLENN C	MORPHOGENESIS OF THE EMBRYO HEART	R01HE 10191-03	HED	10,872
ROSS, RICHARD S	CORONARY AND VALVULAR HEART DISEASE	R01HE 05584-08	CVB	69,527
ROWE, RICHARD D	NATURAL HISTORY CONGENITAL HEART DEFECTS JOINT STUDY	R01HE 10718-02	SRC	28,068
ROZEBOOM, LLOYD E	BIOLOGY AND ECOLOGY OF MOSQUITO DISEASE VECTORS	R01AI 00351-16	TMP	8,700
ROZEBOOM, LLOYD E	INTERSPECIFIC COMPETITION AMONG MOSQUITOES	R01AI 07880-01	TMP	25,142
RUBIN, ROBERT J	CONTROL OF LIPOPROTEIN METABOLISM BY OROTIC ACID	R01AM 09392-05	MET	37,011
SARTWELL, PHILIP E	FOLLOW UP STUDIES OF RESPIRATORY SURVEYS	R01HE 08356-04	EDC	8,374
SAZ, HOWARD J	INTERMEDIARY METABOLISM OF HELMINTHS	R01AI 05290-06	TMP	28,751
SCHELLENBERG, KARL A	MECHANISM OF ENZYME CATALYZED OXIDATION-REDUCTIONS	R01GM 11799-05	BIO	20,751
SCHILLER, EVERETT L	HOST-PARASITE RELATIONS OF INTESTINAL HELMINTHS	R01AI 01508-12	TMP	44,509
SCHNAUFER, LOUISE	COLO-SPHINCTERIC REFLEXES IN ANO-RECTAL ANOMALIES	R01AM 10770-02	SGYB	10,363
SCHNAUFER, LOUISE	COLO-SPHINCTERIC REFLEXES IN ANO-RECTAL ANOMALIES	R01AM 10770-03	SGYB	13,613
SEEDS, ASA E, JR	INTRAUTERINE WATER METABOLISM IN PREGNANCY	R01HD 01947-03	HED	1,946
SEEDS, ASA E, JR	CHEMICAL EVALUATION OF FETAL RESPIRATION AND DISTRESS	R01HD 03356-01	HED	21,614
SHeldon, WALTER H	INFLUENCE OF HOST FACTORS ON INFLAMMATION	R01AM 04593-09	PTHA	49,654
SHEPARD, RICHARD H	COMPUTING CENTER, JOHNS HOPKINS MEDICAL INSTITUTIONS	P07FR 00004-07	COM	83,916
SHIMIZU, HIROSHI	DEVELOPMENTAL STUDY OF INFANTS HEARING BY EEG	R01NB 06407-03	CMS	4,185
SHIMIZU, HIROSHI	AUDIOLOGICAL STUDY BY EEG OF THE MENTAL RETARDED	R01NB 07480-01	CMS	7,777
SILVERSTEIN, ARTHUR M	DEVELOPMENT OF IMMUNITY IN THE PRIMATE FETUS	R01AI 06713-04	IMB	33,953
SILVERSTEIN, ARTHUR M	STUDIES IN OCULAR HYPERSENSITIVITY	R01NB 03040-08	VIS	22,560
SILVERSTEIN, ARTHUR M	PATHOGENESIS OF UVEITIS	R01NB 05366-05	VIS	34,543
SKINNER, DAVID B	APPLICATIONS OF MECHANICAL VENTRICULAR ASSISTANCE	R01HE 11831-01	SGYA	33,783
SLOAN, LOUISE L	USE OF OPTICAL AIDS STUDIES IN PHYSIOLOGICAL OPTICS	R01NB 00810-13	VIS	38,572
SMITH, HAMILTON O	GENETIC CONTROL OF LYSOGENIZATION AND INDUCTION	R01AI 07875-02	GEN	27,129
SNYDER, SOLOMON H	METABOLISM OF BIOGENIC AMINES	R01NB 07275-02	PHRA	32,817
SPEAR, GERALD S	STUDIES ON THE KIDNEY AND THE FORSSMAN SYSTEM	R01AM 10795-02	PTHA	43,430
SUSKIND, SIGMUND R	GENETIC INFORMATION AND ENZYME STRUCTURE AND FUNCTION	R01CA 03080-12	GEN	36,590
TALALAY, PAUL	BIOCHEMICAL PHARMACOLOGY OF STEROID HORMONES	R01AM 07422-05	PC	92,198
TAUSSIG, HELEN B	FOLLOWUP ON TETRALOXY OF FALLOT SURGICAL PATIENTS	R01HE 10828-02	SGYA	17,346
TAYLOR, CARL E	METHODS ADAPTABLE TO EPIDEMIOLOGIC STUDIES OF LEPROSY	R01AI 05176-06S1	ALY	1,094
TAYLOR, CARL E	METHODS ADAPTABLE TO EPIDEMIOLOGIC STUDIES OF LEPROSY	R01AI 05176-07	ALY	16,798
TAYLOR, CARL E	PROSPECTIVE STUDY OF NUTRITION AND INFECTIONS IN INDIA	R22AM 11047-02	SSS	23,565
TOWNES, ALEXANDER S	COMPLEMENT IN RHEUMATOID SYNOVITIS	R01AM 08827-04	ALY	21,870
TOWNES, ALEXANDER S	EXPERIMENTAL CLINICAL PROGRAM IN R A	R01AM 12041-02	SSS	30,850
TS O, PAUL O	INTERACTION, CHEMISTRY AND SYNTHESIS OF NUCLEIC ACIDS	R01GM 16066-01	PC	126,945
TURNER, THOMAS B	ANIMAL RESOURCE SUPPORT FOR BIO-MEDICAL RESEARCH	P06FR 00130-05	AR	35,186
TURNER, THOMAS B	PRIMATE COLONY FOR SPECIALIZED MEDICAL RESEARCH	P06FR 00144-07	PR	35,932
TURNER, THOMAS B	GENERAL RESEARCH SUPPORT GRANT	S01FR 05378-07	NSS	410,520
VAN DER LOOS, HENDRIK	QUANTIFICATION OF CONNECTIVITY IN THE CEREBRAL CORTEX	R01NB 04012-06	NEUA	29,900
VON EHRENSTEIN, GUNTER J M	THE ROLE OF TRANSFER RNA IN PROTEIN BIOSYNTHESIS	R01GM 13714-02	BIO	81,413
VON NOORDEN, GUNTER K	STRABISMIC AMBLYOPIA	R01NB 05147-06	VIS	36,667
WAGNER, HENRY N, JR	NUCLEAR INSTRUMENTATION & CHEMISTRY IN MEDICINE	P01GM 10548-06	GMP	439,224

TABLE 2—RESEARCH GRANTS, BY AREA, INSTITUTION, AND PRINCIPAL INVESTIGATOR

INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRG	DOLLARS
MARYLAND—(CON.)				
WALKER, A EARL	STUDIES IN EPILEPSY	R01NB 03392-07	NEUB	35,844
WALKER, W GORDON	AMINO ACID TRANSPORT AND METABOLISM IN THE KIDNEY	R01AM 03359-09	PHY	33,352
WALKER, W GORDON	FACTORS REGULATING ANTIBIOTIC LEVELS IN RENAL TISSUE AN	R01AM 11870-01	GMB	23,134
WALKER, W GORDON	FACTORS REGULATING ELECTROLYTE EXCRETION BY THE KIDNEY	R01HE 03303-11	CVA	29,687
WALSER, MACKENZIE	IONIC INTERACTIONS IN ELECTROLYTE METABOLISM	R01AM 02306-10	PHY	39,171
WALSH, FRANK B	NEUROPATHOLOGY AND CLINICAL OPHTHALMOLOGICAL DIAGNOSIS	R01NB 02863-08	VIS	41,889
WARFIELD, DICKENS W	PHYSIOLOGICAL AND BEHAVIORAL STUDIES OF HEARING	R01NB 01829-10	CMS	28,113
WEINSTEIN, GEORGE W	ORGANIC AND FUNCTIONAL DISORDERS OF THE RETINA	P15NB 07647-01	NBPB	46,454
WEINSTEIN, GEORGE W	STUDIES ON THE ISOLATED RETINA	R01NB 07451-01	VIS	15,865
WEISS, BERNARD	ENZYMATIC MODIFICATIONS OF NUCLEIC ACIDS	R01GM 15671-01	BIO	34,132
WEISS, LEON	ELECTRON MICROSCOPY OF THE RETICULOENDOTHELIAL SYSTEM	R01AM 11381-08	HEM	44,695
WHARTON, LAWRENCE R, JR	PROGESTINS AND INTERSEX	R01HD 00417-07	REB	4,138
WHITE, EMIL H	NATURAL PRODUCTS FROM ACHILLEA LANULOSA YARROW	R01CA 05234-06	MCHB	17,119
WHITE, EMIL H	CHEMI-AND BIOLUMINESCENCE	R01NB 07868-11	MCHA	59,054
WHITE, JOHN J	SERIAL PHYSIOLOGIC STUDIES OF AUTOGRAFTS & ALLOGRAFTS	R01HE 11025-02	SGYB	20,921
WILLIAMS-ASHMAN, HOWARD G	BIOCHEMISTRY OF MALE GENITAL TRACT	R01HD 01453-05	MET	69,184
WOOD, SUMNER, JR	PATHOGENESIS OF TUMOR METASTASIS	R01CA 05319-08	PTHB	56,000
WOOD, WILLIAM B, JR	CHEMISTRY OF LEUCOCYIC PYROGEN	R01AI 03772-08	BM	53,256
WOODS, JAMES W	CNS CONTROL OF THE ANTERIOR PITUITARY	R01AM 01835-11	PHY	36,649
YARDLEY, JOHN H	PATHOGENESIS OF FEVER	R01CA 00660-14	BM	40,573
YOUNG, WILLIAM J	GENETICS OF GLUCOSE-6-P04 DEHYDROGENASE IN DROSOPHILA	R01GM 14155-02	GEN	24,369
ZIERLER, KENNETH L	STUDIES OF HUMAN PERFORMANCE	P01AM 05524-07	SSS	162,067
ZINKHAM, WILLIAM H	HETEROGENEITY OF DEHYDROGENASES DURING HUMAN DEVELOPMENT	R01HD 00994-04	MBY	39,361
ZUIDEMA, GEORGE D	PATHOGENESIS OF CIRRHOSIS AND PORTAL HYPERTENSION	R01AM 09603-04	SGYB	35,617
INSTITUTION TOTAL	229	12,379,252		
JOINT ADVISORY COUNCIL SUBCOMMITTEE ON CEREBROVASCULAR DISEASE				
LILIENTFELD, ABRAHAM M	CEREDROVASCULAR PROGRAM DEVELOPEMENT	R01HE 11145-02	NSS	10,000
LILIENTFELD, ABRAHAM M	CEREBROVASCULAR PROGRAM DEVELOPEMENT	R01NB 07218-02	NSS	10,000
INSTITUTION TOTAL	2	20,000		
MARYLAND MEDICAL-LEGAL FOUNDATION				
PENTSCHWEH, ANGEL	ENERGY SUPPLY DISORDERS AFFECTING THE FETAL-INFANTILE CN	R01NB 02275-09	PTHA	53,037
INSTITUTION TOTAL	1	53,037		
MARYLAND UNIVERSITY OF				
ADAMS, ELIJAH	METABOLISM OF CERTAIN AMINO ACIDS	R01GM 11105-06	BIO	98,448
ADELMAN, WILLIAM J, JR	VOLTAGE CLAMP STUDIES OF INTERNALLY PERFUSED AXONS	R01NB 04601-06	PHY	34,698
APOSHIAN, H V	ENZYMOLGY OF VIRUS INDUCED TUMORS	R01CA 10497-02	PC	87,967
ATTAR, SAFUH	COAGULATION MECHANISMS AND PROTEOLYSIS IN SHOCK	R01HE 09341-04	SGYA	44,144
BARNETT, HERBERT C	GENETIC STUDIES ON THE CONTROL OF ARBOVIRUS VECTORS	R22AI 07807-02	SSS	135,185
BARRACLOUGH, CHARLES A	CNS REGULATION OF REPRODUCTION IN FEMALE GUINEA PIGS	R01HD 01514-04	END	16,948
BARRACLOUGH, CHARLES A	CENTRAL NERVOUS REGULATION OF GONADOTROPIN SECRETION	R01HD 02138-06	END	39,317
BESSMAN, SAMUEL P	BRAIN METABOLISM AND SYSTEMIC DISEASE	R01NB 01365-11	PC	44,659
BLAKE, WILLIAM D	NEUROENDOCRINE CONTROL OF KIDNEY	R01AM 06159-07	PHY	20,923
BODE, VERNON C	BIOCHEMICAL STUDIES ON THE REGULATION OF DNA FUNCTION	R01AI 06493-04	VR	33,918
CLYDE, DAVID F	INTERNATIONAL CENTER FOR MEDICAL RESEARCH AND TRAINING	R07TW 00142-09	CIC	490,072
CONNOR, THOMAS B	GENERAL CLINICAL RESEARCH CENTER	M01FR 00033-08	CLR	471,608
COWLEY, R ADAMS	THE RESPONSE TO INJURY IN MAN	P01GM 15700-01	GMP	199,983
COWLEY, R ADAMS	BIOLOGICAL POWER SOURCES	R01GM 15245-02	SGYA	23,014
ESMOND, WILLIAM G	BLOOD PUMPS, OXYGENATOR, DIALYSIS DEVICE	R01HE 02618-11	SGYA	62,401
FRANK, LEONARD H	CONTROL OF PROLINE METABOLISM IN ESCHERICHIA COLI	R01AI 08470-01	PC	29,010
GLASER, EDMUND M	CNS RESPONSE TESTS OF AUDITORY CRITICAL BAND THEORY	R01NB 07773-01	CMS	26,547
GOLDMAN, LAWRENCE	MULTIPLE RESISTANCE STATES IN EIGENMANNIA ELECTROPLAX	R01NB 07734-01	PHY	12,571
GREISMAN, SHELDON E	ROLE OF BACTERIAL ENDOTOXINS IN INFECTION	R01AI 07052-07	BM	5,000
HAWKINS, JEAN E	PATHOGENESIS AND CONTROL OF THE MYCOBACTERIOSES	R01AI 08381-01	BM	14,331
HENDERSON, MAUREEN M	PREGNANCY OUTCOME IN BACTERIURIA	R01HD 00307-07	BM	64,153
HYBL, ALBERT	CRYSTAL STRUCTURE ANALYSIS IN MEMBRANE CHEMISTRY	R01HE 11914-04	BBCB	21,024
KARPELES, LEO M	VENOUS DISTENSIBILITY CHANGES WITH EXERCISE	R01HE 10485-02S1	CVB	6,552
KIRTLEY, MARY E	GLYCERALDEHYDE-3-PHOSPHATE DEHYDROGENASE IN LIVER	R01AM 11428-02	PC	15,504
KLIMIT, CHRISTIAN R	THE RELATION OF TREATMENT TO DIABETIC COMPLICATIONS	R01AM 06876-06	SSS	105,846
KLIMIT, CHRISTIAN R	COOPERATIVE STUDY OF DRUGS AND HEART DISEASE	R01HE 08888-03S1	SRC	5,304
KLIMIT, CHRISTIAN R	COOPERATIVE STUDY OF DRUGS AND CORONARY HEART DISEASE	R01HE 08888-04	SRC	361,660
KRAHL, VERNON E	FINER STRUCTURE OF THE MAMMALIAN LUNG	R01HE 02454-12	CBY	7,804
LA BROSSE, ELWOOD H	IN VITRO AND IN VIVO STUDIES OF NEUROBLASTOMA	R01CA 08726-02	PHRB	16,019
LUBASH, GLENN D	HUMAN RENIN PURIFICATION AND EFFECTS	R01HE 11691-01	PC	24,094
MC CRUMB, FRED R, JR	STUDIES OF VARIOLA VIRUS AND IMMUNITY IN SMALLPOX	R22AI 08544-01	SSS	89,832
MIDDLEBROOK, GARDNER	STUDIES ON DELAYED TYPE HYPERSENSITIVITY	R01AI 07151-03	ALY	32,081
MIDDLEBROOK, GARDNER	STUDIES ON MYCOBACTERIAL CATALASES	R01AI 07162-03	ALY	34,476
MULLINS, LORIN J	THE ION SELECTIVITY OF THE EXCITABLE MEMBRANE	R01NB 05846-04	PHY	47,259
POMERANTZ, SEYMOUR H	TYROSINASES AND TYROSINE HYDROXYLASES	R01CA 07093-06	BIO	32,151
PROVENZA, D VINCENT	ELECTRON MICROSCOPIC EVALUATION OF RESTORATION ADAPTAB	R01DE 02399-03	DEN	29,876
PROVENZA, D VINCENT	COMPARATIVE STUDY OF TOOTH GERM DEVELOPEMENT	R01DE 02800-01	DEN	87,905
PROVENZA, D VINCENT	DENTINOGENESIS IN MAN AND ANTHROPOIDEA	R01HD 01842-04	DEN	23,373

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INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRG	DOLLARS
MARYLAND—(CON.)				
RICHARDS, RICHARD D	ARTIFICIAL DEVICES FOR GLAUCOMA SURGERY	R01NB 05696-03	VIS	13,573
SALLEY, JOHN J	GENERAL RESEARCH SUPPORT GRANT	S01FR 05317-07	NSS	44,853
SHAY, DONALD E	ISOLATION AND TRANSFER OF PATHOGENIC MICROCOCCI	R01DE 00765-10S1	DEN	8,068
SJODIN, RAYMOND A	TRACER FLUXES AND NET FLUXES ACROSS CELL MEMBRANES	R01NB 07626-08	PHY	23,971
STONE, WILLIAM S	GENERAL RESEARCH SUPPORT GRANT	S01FR 05379-07	NSS	260,261
TRAUB, ROBERT	STUDIES OF CERTAIN IMPORTANT GENERA OF SIPHONAPTERA	R01AI 04242-07	TMP	83,967
WEATHERED, JACKIE G	EFFECT OF LOCAL IRRITANTS ON ORAL TISSUES	R01DE 02010-06	DEN	29,667
WISWELL, JOHN G	METABOLISM OF EPINEPHRINE IN THYROID DISEASE	R01AM 09539-03	END	18,276
WIZENBERG, MORRIS J	RADIATION AND RADIOBIOLOGY RESEARCH CENTER	P02CA 06518-05	RAD	129,325
WIZENBERG, MORRIS J	LUNG CANCER RADIOTHERAPY AND SURGERY CLINICAL TRIAL	R01CA 07240-05	RAD	4,288
YOUNG, JOHN D, JR	COOPERATIVE STUDY OF RENOVASCULAR HYPERTENSION	R01HE 06653-07	SRC	33,079
ZENKER, NICOLAS	SYNTHESIS AND ASSAY OF THYROID ANALOGS	R01AM 06480-05	MCHB	9,055
INSTITUTION TOTAL	50	3,554,040		
P H S BUREAU OF HEALTH SERVICES-P H S HOSPITAL				
WARBASSE, J RICHARD	COOPERATIVE STUDY OF RENAL DISEASE AND HYPERTENSION	R01HE 09755-03S1	SRC	4,232
WARBASSE, RICHARD	COOPERATIVE STUDY OF DRUGS AND CORONARY HEART DISEASE	R01HE 10441-03	SRC	68,506
WARBASSE, RICHARD	COOPERATIVE STUDY OF TREATMENT OF HYPERTENSION	R01HE 10716-02	SRC	30,034
INSTITUTION TOTAL	3	102,772		
SINAI HOSPITAL OF BALTIMORE				
GRUENWALD, PETER	FETAL DISTRESS AND ASSOCIATED PLACENTAL CHANGES	R01HD 00547-07	HED	45,726
KAPLAN, EUGENE	BIOLOGIC EFFECTS OF ABO HETEROSEXIFIC PREGNANCY	R01HD 01461-12	HED	55,980
KURLANDER, ARNOLD B	GENERAL RESEARCH SUPPORT GRANT	S01FR 05478-06	NSS	74,966
MARKOWITZ, MILTON	STREPTOCOCCAL TYPE-SPECIFIC ANTIBODIES	R01HE 05555-08	ALY	39,881
NACHLAS, MARVIN M	INVESTIGATIONS IN ACUTE CORONARY ARTERY OCCLUSION	R01HE 03223-09S1	CVA	8,826
NACHLAS, MARVIN M	INVESTIGATIONS IN ACUTE CORONARY ARTERY OCCLUSION	R01HE 03223-10	CVA	30,467
NAIR, PADMANABHAN P	TRACE LIPIDS IN CELL FUNCTION	R01AM 02131-11	MET	50,986
SEITCHIK, JOSEPH	VALUE OF CONTINUOUS FETAL HEART MONITORING IN LABOR	R01HD 01700-03	HED	8,072
SEITCHIK, JOSEPH N	HYPERTENSIVE PREGNANCY BODY COMPOSITION	R01HD 00401-07	HED	28,956
SELIGMAN, ARNOLD M	CHEMOTHERAPY OF CANCER - EXPERIMENTAL AND CLINICAL	R01CA 02478-14	PHRB	285,915
TABATZNIK, BERNARD	COOPERATIVE STUDY OF DRUGS AND CORONARY HEART DISEASE	R01HE 11091-02	SRC	56,171
TABATZNIK, BERNARD	SERIAL AMBULATORY EKG AFTER MYOCARDIAL INFARCTION	R01HE 11252-01	CVA	32,695
INSTITUTION TOTAL	12	718,641		
WORLD FEDERATION OF NEUROSURGICAL SOCIETIES				
WALKER, A EARL	4TH INTERNATIONAL CONGRESS OF NEUROLOGICAL SURGERY	R13NB 08080-01	NSS	81,741
WALKER, A EARL	CONFERENCE ON THE AFTER EFFECTS OF HEAD INJURIES	R13NB 08134-01	NSS	34,820
INSTITUTION TOTAL	2	116,561		
BETHESDA				
AMERICAN INSTITUTE OF NUTRITION				
PEARSON, WILLIAM N	WESTERN HEMISPHERE NUTRITION CONGRESS II	R13AM 12736-01	NSS	10,000
PEARSON, WILLIAM N	WESTERN HEMISPHERE NUTRITION CONGRESS II	R13HD 04022-01	NSS	10,000
INSTITUTION TOTAL	2	20,000		
AMERICAN SOCIETY FOR CLINICAL NUTRITION				
HODGES, ROBERT	SUPPORT OF AMERICAN JOURNAL OF CLINICAL NUTRITION	R01AM 11394-02	NSS	5,000
INSTITUTION TOTAL	1	5,000		
EYE RESEARCH FOUNDATION				
CAVONIUS, CARL R	OBJECTIVE AUDIOMETRY OF THE PARTIALLY DEAF	R01NB 06877-02	CMS	6,598
INSTITUTION TOTAL	1	6,598		
FEDERATION OF AMERICAN SOCIETIES FOR EXPERIMENTAL BIOLOGY				
ALTMAN, PHILIP L	OFFICE OF BIOLOGICAL HANDBOOKS	R01LM 00334-09	NSS	56,898
EARLE, DAVID P	DEVELOP A NOMENCLATURE AND NOSOLOGY OF RENAL DISEASE	R01LM 00619-01	GMA	30,136
FENN, WALLACE O	XXIV INTERNATIONAL CONGRESS OF PHYSIOLOGICAL SCIENCES	R13GM 14923-01S1	NSS	44,454
FENN, WALLACE O	XXIV INTERNATIONAL CONGRESS OF PHYSIOLOGICAL SCIENCES	R13HE 11908-01	NSS	24,000
MC MANUS, J F A	PUBLICATION OF CONFERENCE AND SYMPOSIA PROCEEDINGS	R01GM 10008-05	NSS	23,007
INSTITUTION TOTAL	5	178,495		
UNIVERSITIES ASSOCIATED FOR RESEARCH AND EDUCATION IN PATHOLOGY				
FIRMINGER, HARLAN I	UREASE INHIBITION RELATION TO AMMONIAGENIC COMA	R01AM 10960-02	PHRB	19,512
FIRMINGER, HARLAN I	ATLAS OF TUMOR PATHOLOGY	R01CA 08575-03	PTHB	50,390
KNUTTI, RALPH E	AN INDEX OF INVESTIGATIVE DERMATOPATHOLOGY	R01LM 00560-01	BCM	14,572
WISSLER, ROBERT W	INJURY OF LEUKOCYTES BY SERUM FACTORS	R01AI 07291-03	ALY	19,295
WISSLER, ROBERT W	COMPARATIVE PATHOLOGY REGISTRY AND MATERIALS EXCHANGE	R01FR 00301-03	PTHA	76,227
INSTITUTION TOTAL	5	179,996		
CATONSVILLE				
MARYLAND STATE DEPARTMENT OF M HY				
BLACK, PERRY	RECOVERY IN MOTOR CORTEX DAMAGE STROKE IMPLICATIONS	R01NB 06806-01S1	NEUA	1,423
BLACK, PERRY	RECOVERY IN MOTOR CORTEX DAMAGE STROKE IMPLICATIONS	R01NB 06806-02	NEUA	17,878
MEACHAM, HARRY D	GENERAL RESEARCH SUPPORT GRANT	S01FR 05546-06	NSS	94,725
VON KORFF, RICHARD W	INTERACTIONS OF INTRACELLULAR ENZYME SYSTEMS	R01HE 10923-02S1	BIO	3,723

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INVESTIGATOR		PROJECT TITLE	GRANT NO.	IRG	DOLLARS
MARYLAND—(CON.)					
INSTITUTION TOTAL	4	117,749			
MARYLAND UNIVERSITY OF					
KONETZKA, WALTER A		MODE OF ACTION OF PHENETHYL ALCOHOL	R01AI 07661-02	MBC	10,527
INSTITUTION TOTAL	1	10,527			
COLLEGE PARK					
ENTOMOLOGICAL SOCIETY OF AMERICA					
NELSON, R H		SIBERIAN TICK TYPHUS, PUBLICATION OF	R01LM 00542-01	BCM	4,200
INSTITUTION TOTAL	1	4,200			
MARYLAND UNIVERSITY OF					
ANASTOS, GEORGE		REVISION OF STILES AND HASSALLS TREMATODA	R01AI 04334-05S1	TMP	4,775
ANASTOS, GEORGE		REVISION OF STILES AND HASSALLS TREMATODA	R01AI 04334-06S1	TMP	1,110
ANASTOS, GEORGE		TICKS, HOSTS, DISTRIBUTION AND DISEASE TRANSMISSION	R01LM 00411-01	TMP	58,129
BAILEY, WILLIAM J		NEW TERTIARY BLOCKING GROUPS FOR AMINO ACIDS & PEPTIDES	R01GM 12550-03	MCHB	15,170
BRINKLEY, HOWARD J		FUNCTIONING OF CORPORA LUTEA	R01HD 00739-04	REB	28,056
DOETSCH, RAYMOND N		BACTERIAL MOTILITY AND FITNESS OF THE ENVIRONMENT	R01AI 07835-02	BM	7,800
GAINER, HAROLD		EXCITATION-CONTRACTION COUPLING IN MUSCLE	R01NB 05043-05	PHY	11,752
GORDON, GILBERT		THE KINETICS OF PRIMARY STEPS IN CHEMICAL REACTIONS	R01GM 13448-02	MCHB	12,177
HAILMAN, JACK P		BEHAVIORAL AND PHYSIOLOGICAL ASPECTS OF COLOR VISION	R01NB 07075-02	VIS	16,751
HENERY-LOGAN, KENNETH R		BIOMEDICAL SCIENCES SUPPORT	S05FR 07042-03	NSS	63,610
HETRICK, FRANK M		STUDIES ON THE KILHAM RAT VIRUS	R01CA 07938-03S2	VR	5,580
JACHOWSKI, LEO A, JR		HOST SPECIFICITY OF ZOOPARASITIC NEMATODES	R01AI 03388-08S1	TMP	5,400
JONES, JACK C		PHYSIOLOGY OF INSECT REPRODUCTION	R01GM 06021-10	TMP	11,241
KEENEY, MARK		CHARACTERIZATION OF RUMEN MICROBIAL LIPIDS	R01AM 06248-05S1	MBC	1,018
KEENEY, MARK		CHARACTERIZATION OF RUMEN MICROBIAL LIPIDS	R01AM 06248-06	MBC	20,400
KRUSBERG, LORIN R		PHYSIOLOGY AND NUTRITION OF PLANT PARASITIC NEMATODES	R01AI 03808-08	TMP	17,277
LIPPINCOTT, ELLIS R		HYDROGEN BONDING IN BIOLOGICAL MINERAL SYSTEMS	R01DE 01466-07	BBCA	38,343
MENZER, ROBERT E		OXIDATIVE DEALKYLATION OF PESTICIDES	R01ES 00121-03	TOX	17,541
PAROCHETTI, JAMES V		MODE OF SELECTIVE ACTION OF TRIFLURALIN	R01ES 00190-03	TOX	11,416
ROBERSON, BOB S		PATHOGENIC PROPERTIES OF GAFFKYA TETRAGENA	R01AI 07863-02	BM	9,325
SISLER, HUGH D		FUNGICIDES AND CELLULAR METABOLISM	R01AI 00225-16	BM	31,032
STEINMAN, ROBERT M		STIMULUS VARIABLES IN MONOCULAR FIXATION	R01NB 06361-03	VIS	19,140
TEITELBAUM, HERMAN		ROLE OF THALAMUS AND CORTEX IN LEARNING AND TRANSFER	R01HD 02745-02	NP	16,469
WILKERSON, THOMAS D		COLLISION STUDIES OF AQUEOUS IONS	R01GM 13486-03	BBCB	45,900
WITTLER, RUTH G		INTERCONVERSIONS AMONG PPLO, L FORMS AND BACTERIA	R01AI 02332-10	BM	9,669
INSTITUTION TOTAL	25	479,081			
KENSINGTON					
AMERICAN SOCIETY OF TROPICAL MEDICINE AND HYGIENE					
JEFFERY, GEOFFREY M		TRAVEL TO INTERNAT CONGRESSES TROP MED & MALARIA	R13AI 08147-01	TMP	90,000
INSTITUTION TOTAL	1	90,000			
OWINGS MILLS					
MARYLAND STATE DEPARTMENT OF M HY--ROSEWOOD STATE HOSPITAL					
BESSMAN, SAMUEL P		METABOLISM OF Y-HYDROXYBUTYRIC ACID	R01NB 05062-04	PC	31,373
INSTITUTION TOTAL	1	31,373			
ROCKVILLE					
AMERICAN TYPE CULTURE COLLECTION					
BERGE, TRYGVE O		EXPANSION OF VIRAL AND RICKETTSIAL REGISTRY	R01AI 02329-09S1	VR	4,770
BERGE, TRYGVE O		EXPANSION OF VIRAL AND RICKETTSIAL REGISTRY	R01AI 02329-10	VR	65,747
BERGE, TRYGVE O		PRESERVATION OF VIRUSES BY FREEZING OR FREEZE-DRYING	R01AI 07318-03	VR	13,531
CLARK, WILLIAM A		DEVELOPMENT OF THE AMERICAN TYPE CULTURE COLLECTION	P07FR 00117-05	SSS	240,000
CLARK, WILLIAM A		TAXONOMY OF BACTERIOPHAGES	R01AI 01534-11S1	BM	6,938
SHANNON, JOHN E		TUMOR VIRUS AND TISSUE CULTURE CELL LINE REPOSITORY	R01CA 04975-09	PTHB	130,318
INSTITUTION TOTAL	6	461,304			
SILVER SPRING					
INSTITUTE FOR BEHAVIORAL RESEARCH					
CARON, ROSE F		STIMULUS SELECTION BEHAVIOR IN INFANCY	R01HD 01605-03	CPR	32,961
CHAPMAN, ROBERT M		VISUAL MECHANISMS FOR WAVELENGTH DISCRIMINATION	R01NB 03590-07	VIS	53,808
GOLDIAMOND, ISRAEL		GENERAL RESEARCH SUPPORT GRANT	S01FR 05636-02	NSS	88,066
LEVISON, PETER K		COMPARISON OF VISUAL FIXATION AND REINFORCEMENT	R01HD 02477-01S1	EXP	19,908
SREBRO, RICHARD		RESEARCH ON SPECTRAL SENSITIVITY	R01NB 06046-03	VIS	35,810
INSTITUTION TOTAL	5	230,553			
NATIONAL BIOMEDICAL RESEARCH FOUNDATION					
DAYHOFF, MARGARET O		SEQUENCE OF AMINO ACIDS IN PROTEINS BY COMPUTER AIDS	R01GM 08710-07	COM	49,629
LEDLEY, ROBERT S		BIOMEDICAL USE OF AUTOMATIC COMPUTER PICTURE ANALYSIS	P01GM 15192-01	GMP	100,000
LEDLEY, ROBERT S		ANALYSIS OF CHROMOSOME KARYOGRAMS	R01GM 10789-05	GEN	52,539
LEDLEY, ROBERT S		BIOMEDICAL PICTURE DATA PROCESSOR	R01GM 10797-04S1	COM	8,892
LEDLEY, ROBERT S		BIOMEDICAL PICTURE DATA PROCESSOR	R01GM 10797-05	COM	59,455
LEDLEY, ROBERT S		ANALYSIS OF CAPILLARY BLOOD FLOW	R01HE 10327-03	PHY	37,030

TABLE 2—RESEARCH GRANTS, BY AREA, INSTITUTION, AND PRINCIPAL INVESTIGATOR

INVESTIGATOR	PROJECT TITLE	GRANT NO	IRG	DOLLARS
MARYLAND—(CON.)				
LEDLEY, ROBERT S	PHOTOMICROGRAPHIC ANALYSIS OF CENTRAL NERVOUS SYSTEM	RO1NB 04472-05	COM	32,415
LEDLEY, ROBERT S	AUTOMATIC RAY TRACING OF THE OPTICAL SYSTEM OF THE EYE	RO1NB 06345-02	VIS	29,162
INSTITUTION TOTAL	8 369,122			
TOWSON				
GREATER BALTIMORE MEDICAL CENTER				
PROUT, THADDEUS E	COOPERATIVE STUDY OF DRUGS AND CORONARY HEART DISEASE	RO1HE 11374-02	SRC	105,711
INSTITUTION TOTAL	1 105,711			
WOODSTOCK				
WOODSTOCK COLLEGE				
BAUMILLER, ROBERT C	VIRUS HOST RELATIONSHIP IN DROSOPHILA MELANOGASTER	RO1GM 12651-03S1	GEN	218
INSTITUTION TOTAL	1 218			
STATE TOTAL	378 19,572,729			
MASSACHUSETTS				
AMHERST				
AMHERST COLLEGE				
BEEBE, RALPH A	ADSORPTION STUDIES ON HYDROXY APATITE IN BONES & TEETH	RO1AM 02896-09	BBCB	24,636
FINK, RICHARD D	PRECISION PRODUCTION OF ORGANIC TRACERS	RO1GM 13966-03	RAD	17,400
GIFFORD, PROSSER	BIOMEDICAL SCIENCES SUPPORT GRANT	S05FR 07110-01	NSS	39,121
KIDDER, GEORGE W	METABOLIC STUDIES ON ANIMAL MICROORGANISMS	RO1AM 01005-15S1	PC	2,636
KIDDER, GEORGE W	METABOLIC STUDIES ON ANIMAL MICROORGANISMS	RO1AM 01005-16	PC	21,480
KIDDER, GEORGE W	SYNTHESIS AND TESTING OF METABOLIC ANALOGS	RO1CA 02924-12	PHRB	24,315
KROPF, ALLEN	PHOTOCHEMISTRY OF THE VISUAL PIGMENTS	RO1NB 01923-08	VIS	27,978
MONCRIEF, JOHN W	XRAY METHODS TO SOLVE BIOLOGICAL MOLECULAR STRUCTURES	RO1GM 14495-02	BBCB	9,254
SCHOTTE, OSCAR E	HISTOLOGICAL AND CHEMICAL FEATURES OF EARLY REGENERATION	RO1HD 01230-14	CBY	30,628
SILVER, MARC S	ORGANIC CHEMISTRY AND ENZYME MECHANISMS	RO1AM 08005-05	PC	20,233
WALLACE, HUGH	NUCLEOLAR METABOLISM AND ITS CONTROL	RO1GM 14166-02	GEN	18,249
INSTITUTION TOTAL	11 235,930			
MASSACHUSETTS UNIVERSITY OF				
ANDERSON, EVERETT	STUDIES ON COMPARATIVE CYTOLOGY	RO1GM 08776-07	CBY	35,533
ANSELME, JEAN-PIERRE	N-AZIDAMINES	RO1GM 13689-02	MCHA	22,749
KAD, DONALD L	NEURO-MUSCULAR MECHANISMS OF THE OVIDUCT	RO1HD 00745-05	REB	10,705
BRANDTS, JOHN F	FREE ENERGY OF FOLDING OF GLOBULAR PROTEINS	RO1GM 11071-06	BBC	33,032
CANALE PAROLA, ERCOLE	PHYSIOLOGY OF THE ANAEROBIC SARCINAE	RO1AI 06294-04	BM	8,208
CANALE-PAROLA, ERCOLE	PHYSIOLOGY AND MORPHOLOGY OF ANAEROBIC SPIROCHETES	RO1AI 08248-01	BM	5,752
COX, C D	COMPARATIVE PHYSIOLOGY AND VIRULENCE OF LEPTOSPIRA	RO1AI 05440-05	BM	28,158
FAIRBAIRN, DONALD	BIOCHEMISTRY OF ASCARIS LUMBRICOIDES	RO1AI 04953-06	TMP	47,029
GENTILE, ARTHUR C	BIOMEDICAL SCIENCES SUPPORT	S05FR 07048-03	NSS	70,684
HARVEY, WILLIAM R	PHYSIOLOGY OF INSECT DIAPAUSE AND DEVELOPMENT	RO1AI 04291-07	TMP	33,860
HOLT, STANLEY C	BIOCHEMICAL CYTOLOGY OF THE PHOTOSYNTHETIC BACTERIA	RO1GM 14634-02	MCB	26,093
HONIGBERG, BRONISLAW M	PATHOGENICITY IN TRICHOMONADS	RO1AI 00742-14	TMP	40,760
HULTIN, HERBERT O	DISTRIBUTION OF GLYCOLYTIC ENZYMES IN SKELETAL MUSCLE	RO1GM 12064-05	PC	19,691
KATES, SOLIS L	PROBLEM SOLVING IN DEAF AND HEARING CHILDREN	RO1HD 00336-08	PCR	18,870
LESSIE, THOMAS G	ALLOSTERIC ENZYMES IN PSEUDOMONAS CATABOLISM	RO1AM 12163-01	MCB	8,144
MC EWEN, WILLIAM E	1,3-DIPOLAR ADDITION REACTIONS OF REISSERT COMPOUNDS	RO1CA 06620-06	MCHB	15,727
MORTLOCK, ROBERT P	THE EVOLUTION OF ENZYMIC ACTIVITY	RO1AI 06848-03	PC	12,144
PFAU, CHARLES J	BIOPHYSICAL AND BIOCHEMICAL STUDIES ON LCM VIRUS	RO1AI 06735-04	VR	19,452
PORTER, ROGER S	THERMAL STUDY OF MESOPHASES FORMED BY STEROID SYSTEMS	RO1HE 11342-02	BBCB	30,675
RAUCH, HAROLD	DILUTE-LETHAL AND OTHER NEUROMUSCULAR MUTANTS IN MICE	RO1GM 05921-10	GEN	39,720
ROBERTS, LARRY S	GROWTH PHYSIOLOGY OF CESTODES	RO1AI 06153-05	TMP	25,680
SNEDECOR, JAMES G	EFFECTS OF HORMONES ON CARBOHYDRATE METABOLISM	RO1AM 01266-12	MET	20,237
STENGLE, THOMAS R	HALIDE IONS AS PROBES FOR NMR STUDIES OF PROTEINS	RO1GM 14686-02	BBCB	8,955
THORNE, CURTIS B	LYSOGENY AND PHAGE CARRIER STATE IN BACILLUS SPECIES	RO1AI 07654-02	MCB	34,149
WALKER, ROBERT W	STUDIES OF MYCOBACTERIAL LIPIDS	R22AI 08396-01	SBS	28,435
WESTHEAD, EDWARD W	FACTORS INFLUENCING THE CONFIGURATION OF ENOLASE	RO1GM 14945-02	BIO	32,778
WESTHEAD, EDWARD W, JR	MOLECULAR BASIS OF ASPARTYL KINASE FEED-BACK CONTROL	RO1AM 11157-02	BIO	34,927
INSTITUTION TOTAL	27 712,147			
BELMONT				
MASSACHUSETTS GENERAL HOSPITAL -MC LEAN HOSPITAL DIVISION				
DE MARNEFFE, FRANCIS	GENERAL RESEARCH SUPPORT GRANT	S01FR 05484-06	NSS	52,071
EMBREE, LARRY J	MICROCHEMICAL NEUROPATHOLOGY OF THE CEREBELLUM	RO1NB 07775-01	PTHA	71,209
FOLCH-PI, J	BIOCHEMISTRY OF THE MUCOLIPIDS OF THE NERVOUS SYSTEM	RO1NB 02840-08	PC	29,469
FOLCH-PI, JORDI	CHEMISTRY OF BRAIN LIPIDS AND PROTEOLIPIDS	RO1NB 00130-17	PC	114,639
HERMANN, HOWARD T	PHOTIC REGULATION OF PINEAL HORMONES	RO1NB 06813-02	PHY	29,156
HESS, HELEN H	MICROCHEMISTRY OF CELL MEMBRANES OF BRAIN AND RETINA	RO1NB 07297-02	PTHA	43,577
LEES, MARJORIE B	RELATIONSHIP BETWEEN BRAIN LIPIDS AND ELECTROLYTES	RO1NB 07136-02	NEUB	65,856
POPE, ALFRED	QUANTITATIVE HISTOCHEMICAL STUDIES UPON CEREBRAL CORTEX	RO1NB 00361-15	NEUB	19,016
SHEIN, HARVEY M	IN VITRO BIOLOGY OF BRAIN CELLULAR SPECIES	RO1NB 06610-03	MBY	23,985
STOFFYN, PIERRE J	CHEMISTRY OF GLYCOLIPIDS	RO1NB 06370-02	PC	36,029

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INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRG	DOLLARS
MASSACHUSETTS—(CON.)				
INSTITUTION TOTAL	10	485,007		
BOSTON				
AGE CENTER OF NEW ENGLAND				
RHUDICK, PAUL J	INTELLECTUAL FUNCTIONING IN LATER LIFE	RO1HD 01735-03	DBR	41,883
INSTITUTION TOTAL	1	41,883		
BETH ISRAEL HOSPITAL				
DAVIDOFF, FRANK F	MITOCHONDRIAL METABOLISM OF 3-ENOYL FATTY ACIDS	RO1AM 10541-02	PC	18,721
DEYKIN, DANIEL	PROGRAM PROJECT IN THROMBOSIS AND ATHEROSCLEROSIS	PO1HE 11414-01	HEPB	336,509
DEYKIN, DANIEL	ROLE OF PLATELET LIPIDS IN ARTERIAL THROMBOSIS	RO1HE 10641-02	HEM	23,477
FEINGOLD, DAVID S	ANTIMICROBIAL AGENTS AND THE CELL SURFACE	RO1AI 06313-04	MBC	46,224
FRAZIER, HOWARD S	CONTRIBUTIONS OF THE CELL MEMBRANE TO ION SELECTIVITY	RO1GM 14094-02	PHY	24,966
FREIMAN, DAVID G	FINE STRUCTURE OF VASCULAR ENDOTHELIUM IN THROMBOSIS	RO1HE 09342-04	PTHA	31,995
GOLDMAN, HARVEY	SMOOTH MUSCLE HISTOCHEMISTRY AND ULTRASTRUCTURE	RO1HE 10757-02	PTHA	20,574
HEDLEY-WHYTE, JOHN	EFFECT OF HYPOTENSION ON PULMONARY BLOOD GAS EXCHANGE	RO1HE 12164-01	CVA	10,652
HIATT, HOWARD H	CLINICAL AND MOLECULAR STUDIES OF GROWTH	PO1CA 10736-01	SSS	307,980
MAYMAN, CHAIM I	MICROCHEMICAL STUDIES OF HYPOLYCEMIC ENCEPHALOPATHY	RO1NB 06949-03	NEUA	31,908
RABKIN, MITCHELL T	GENERAL RESEARCH SUPPORT GRANT	SO1FR 05479-06	NSS	154,508
ROBINSON, STEPHEN H	ORIGIN AND FATE OF BILE PIGMENTS	RO1AM 09834-03	HEM	32,850
ROSOFF, CHESTER B	INTESTINAL FLORA IN DEFENSE AGAINST MASSIVE INJURY	RO1AI 06398-03S1	BM	12,052
RUTENBURG, ALEXANDER M	SERUM AND URINARY ENZYMES IN MALIGNANT DISEASE	RO1CA 10373-01	PHRB	12,687
SALZMAN, EDWIN W	PLATELET FUNCTION IN HEMORRHAGE AND THROMBOSIS	RO1HE 11127-03	HEM	44,020
SCHLOSSMAN, STUART F	IMMUNOCHEMICAL STUDY OF HEPTEN SUBSTITUTED POLYLYSINES	RO1AM 09845-03	ALY	2,500
SCHNEIDER, PETER B	CONTROL OF PHOSPHOLIPID METABOLISM	RO1AM 10733-02	MET	32,303
SHERWOOD, LOUIS M	THE CHEMISTRY AND PHYSIOLOGY OF PLACENTAL LACTOGEN	RO1HD 03388-01	END	85,042
SILEN, WILLIAM	EFFECT OF VAGOTOMY ON GASTROINTESTINAL FUNCTION	RO1AM 11079-02	SGYA	80,170
WINER, BERTRAM M	SALT DEPLETION AND THE MECHANISMS OF HYPERTENSION	RO1HE 11026-02	CVA	42,897
ZERVAS, NICHOLAS T	STEREOTAXIC GUIDE TO HYPOPHYSIS	RO1AM 12740-01	NEUA	7,006
ZERVAS, NICHOLAS T	STEREOTAXIC ATLAS OF HUMAN CEREBELLUM	RO1NB 08083-01	NEUA	8,434
ZOLL, PAUL M	STOKES-ADAMS DISEASE	RO1HE 11383-01S1	CVB	5,537
INSTITUTION TOTAL	23	1,373,012		
BLOOD GROUPING LABORATORY OF BOSTON				
DIAMOND, LOUIS K	RED CELL & SERUM FACTORS AS GENE MARKERS IN CHILDREN	RO1HD 02723-02	GEN	46,152
DIAMOND, LOUIS K	INHERITANCE OF RED CELL & PROTEIN FACTORS IN FAMILIES	RO1HD 02791-02	GEN	45,006
INSTITUTION TOTAL	2	91,158		
BOSTON COLLEGE				
KELLEHER, RITA P	A PROGRAM TO IMPROVE RESEARCH COMPETENCIES OF THE FACUL	RO2NU 00147-03	NR	50,618
YOON, CHAI H	GENETICS AND BIOCHEMISTRY OF NEUROLOGICAL MUTANTS	RO1NB 02267-09	GEN	17,692
INSTITUTION TOTAL	2	68,310		
BOSTON DEPT OF HEALTH AND HOSPITALS				
LEZER, LEON R	GENERAL RESEARCH SUPPORT GRANT	SO1FR 05569-04	NSS	184,396
INSTITUTION TOTAL	1	184,396		
BOSTON DEPT OF HEALTH AND HOSPITALS—BOSTON CITY HOSPITAL				
DESFORGES, JANE F	THE EFFECT OF AGING IN RED CELL MEMBRANES	RO1AM 06051-12	HEM	16,163
KLEIN, ROBERT	GENERAL CLINICAL RESEARCH CENTER FOR CHILDREN	MO1FR 00103-05	CLR	80,971
KLEIN, ROBERT	USEFULNESS OF EMG IN MONITORING DIGITALIS THERAPY	RO1HE 11980-01	CVA	13,827
LESTER, ROGER	METABOLISM OF HEME AND ITS BREAKDOWN PRODUCTS	RO1AM 09881-03	HEM	39,062
MESSER, JOSEPH V	DETERMINANTS OF MYOCARDIAL PERFORMANCE	RO1HE 08613-03S3	CVA	7,412
MESSER, JOSEPH V	DETERMINANTS OF MYOCARDIAL PERFORMANCE	RO1HE 08613-04A1	CVA	35,558
ROBBINS, STANLEY L	EXPERIMENTAL STUDIES IN VASCULAR HEART DISEASE	RO1HE 03790-09S1	PTHA	344
SISE, HERBERT S	BLOOD CLOTTING IN CARDIOVASCULAR DISEASE	RO1HE 10056-03	HEM	30,307
VITALE, JOSEPH J	IRON, FOLATE, B12 METABOLISM NORMAL AND TUMOR TISSUES	RO1CA 10710-01	NTN	50,022
ZAMCHECK, NORMAN	PATHOBIOLOGY OF THE DIGESTIVE TRACT MUCOUS MEMBRANE	RO1CA 04486-09S1	CAP	60,849
INSTITUTION TOTAL	10	334,515		
BOSTON HOSPITAL FOR WOMEN - LYING-IN DIVISION				
CRAIG, JOHN M	HISTOCHEMICAL APPROACHES TO DISEASES OF CHILDHOOD	RO1HD 00144-09	PTHA	4,718
FREYMAN, JOHN G	GENERAL RESEARCH SUPPORT GRANT	SO1FR 05481-06	NSS	90,600
HUBBELL, JOHN P, JR	NEUROLOGICAL DEVELOPMENT - INFANTS OF DIABETIC MOTHERS	RO1HD 01813-07	PNL	15,169
JOHNSON, LORNA D	PATHOGENESIS OF SQUAMOUS CARCINOMA OF THE CERVIX	RO1CA 02034-15	PTHB	21,677
REID, DUNCAN E	ENERGY BALANCE AND WORK CAPACITY IN PREGNANCY	RO1HD 01793-03	AFY	43,601
INSTITUTION TOTAL	5	175,765		
BOSTON UNIVERSITY				
ANGELAKOS, EVANGELOS T	PARTICULATE FRACTIONS OF CARDIAC CATECHOLAMINES	RO1HE 08985-03S2	PHRA	3,034
ANGELAKOS, EVANGELOS T	NEUROHUMORAL CONTROL OF CARDIAC FUNCTION	RO1HE 09616-04	CVB	47,840
ANGELAKOS, EVANGELOS T	EVALUATION OF CARDIAC VOLUME	RO1HE 10676-02	CVB	23,605
BEAR, RICHARD S	MOLECULAR STRUCTURE OF CONNECTIVE TISSUE FIBERS	RO1AM 11890-01	BBCB	21,995
BELAMARICH, FRANK A	STRUCTURE & FUNCTION OF THROMBOCYTES	RO1HE 10002-03	HEM	28,103
BERMAN, HERBERT J	THROMBOEMBOLISM IN LIVING BLOOD VESSELS	RO1HE 00902-18	HEM	38,182
BERMAN, HERBERT J	ULTRASTRUCTURE AND FUNCTION OF THE MICROCIRCULATION	RO1HE 09447-04	PTHA	34,907

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INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRG	DOLLARS
MASSACHUSETTS—(CON.)				
BOYD, WILLIAM C	HEMAGGLUTINATING SUBSTANCE IN TROPICAL PLANTS	RO1GM 04704-11S1	ALY	5,568
BOYD, WILLIAM C	HEMAGGLUTINATING SUBSTANCES IN TROPICAL PLANTS	RO1GM 04704-12	ALY	19,582
BOYD, WILLIAM C	CHEMICAL STRUCTURE OF THE RH ANTIGENS	RO1GM 06939-09	ALY	1,258
BOYD, WILLIAM C	BLOOD GROUP SPECIFIC PLANT AGGLUTININS	RO1HE 01076-16	HEM	1,945
BROITMAN, SELWYN A	GUT PATHOPHYSIOLOGY IN ENTERIC INFECTION	RO1AI 07913-01	BM	29,230
BYRNE, JOHN J	EXPERIMENTAL HEMORRHAGIC PANCREATITIS	RO1AM 07759-05A1	SGYB	21,665
CHARLES, DAVID	DEUTERIUM LABELED STEROIDS FOR STUDY IN HUMANS	RO1HD 03494-01	END	51,392
COHEN, ALAN S	SYNOVIAL MEMBRANE & RELATED CONNECTIVE TISSUES	RO1AM 04599-08	GMA	118,270
COOPERBAND, SIDNEY R	IMMUNOGLOBULIN SYNTHESIS IN HUMAN GAMMOPATHIES	RO1AM 09812-03	IMB	20,448
DONALDSON, ROBERT M, JR	BINDING & TRANSPORT FUNCTIONS OF INTESTINAL MICROVILLI	RO1AM 11867-01	GMA	53,400
EBAUGH, FRANKLIN G	GENERAL RESEARCH SUPPORT GRANT	SO1FR 05380-07	NSS	230,182
EGDAHL, RICHARD H	MECHANISMS OF ADRENAL AND PANCREATIC ISLET ACTIVATION	RO1AM 08726-05	END	64,610
ENDICOTT, JOHN F	REACTION MECHANISMS OF CYCLIC TETRAMINE COMPLEXES	RO1AM 08737-04	MCHB	44,632
FRANKL, SPENCER N	ANTICARIES EFFECT OF DAILY ACID FLUORIDE TOPICAL RINSE	RO1DH 00097-03	OEN	18,316
FRANZBLAU, CARL	STUDIES ON THE CHEMISTRY OF ELASTIN	RO1AM 07697-05	PC	34,252
FRIEDMAN, EPHRAIM	OCULAR BLOOD FLOW	RO1NB 06303-03	VIS	56,747
GAENSLER, EDWARD A	APPLIED PULMONARY PHYSIOLOGY	RO1HE 05933-09	SGYA	44,188
GALA, RICHARD R	RADIOIMMUNOLOGICAL ASSAY OF SERUM PROLACTIN	RO1AM 10761-02	END	15,946
GENSLER, WALTER J	CHEMISTRY OF PODOPHYLLOTOXIN AND DERIVATIVES	RO1CA 10529-01	MCHA	31,180
GESCHWIND, NORMAN	BOSTON UNIVERSITY APHASIA RESEARCH CENTER	PO1NB 06209-03	NBPA	214,953
GOLDBERG, ALAN H	ANESTHETICS AND CARDIOVASCULAR DYNAMICS	RO1GM 14719-02	CVA	24,936
GOLDMAN, HENRY M	INFLAMMATION AND THE GINGIVAL MICROCIRCULATION	RO1DE 02569-02	DEN	12,995
HENRIQUES, BASIL L	ELECTROLYTE TRANSPORT INTO SUBMAZILLARY SALIVA	RO1DE 02326-05	DEN	19,180
HERRMANN, ROBERT L	CHROMOSOME TRANSFER IN E COLI	RO1AI 07797-02	GEN	24,088
HOWE, CHESTER W	STUDIES ON EXPERIMENTAL WOUND INFECTION	RO1AI 06044-05	BM	29,102
IFFT, JOHN D	A STUDY OF THE DEVELOPMENT OF THE HYPOTHALAMUS	RO1NB 07825-01	CBY	16,118
JACKSON, BENJAMIN T	STUDIES IN FETAL AND NEONATAL ENDOCRINOLOGY	RO1HD 01272-05	HED	31,080
JACKSON, BENJAMIN T	STUDIES IN EXPERIMENTAL ERYTHROBLASTOSIS FETALIS	RO1HD 01385-04	HED	54,978
KIBRICK, SIDNEY	VIRAL STUDIES ON CNS DISEASE	RO1AI 04305-07	VR	50,763
KNUTTGEN, HOWARD G	THE OXYGEN DEBT IN SUBMAXIMAL MUSCULAR WORK	RO1AM 10906-02	AFY	17,990
KUBZANSKY, PHILIP E	BIOMEDICAL SCIENCES SUPPORT	SO5FR 07043-03	NSS	80,977
LAURSEN, RICHARD A	STRUCTURE AND MECHANISM OF ENZYMES	RO1GM 14729-02	BIO	19,908
LESSELL, SIMMONS	EXPERIMENTAL OPTIC NEUROPATHIES	RO1NB 06601-02	VIS	38,676
LEVINE, RUTH R	MECHANISM OF INTESTINAL ABSORPTION OF ONIUM COMPOUNDS	RO1NB 01966-10	PHRA	38,822
LEVINSKY, NORMAN G	PROGRAM PROJECT KIDNEY AND ELECTROLYTE METABOLISM	PO1AM 11793-01	AMP	205,801
MACCHI, I ALDEN	FUNCTIONAL COMPETENCE OF HAMSTER PANCREAS TRANSPLANTS	RO1AM 06873-06	END	41,028
MANNICK, JOHN A	CLINICAL INVESTIGATIONS IN RENAL TRANSPLANTATION	PO1AM 10824-02	AMP	166,074
MATOLTSY, ALEXANDER G	ELECTRON MICROSCOPY OF KERATINIZING TISSUES	RO1AM 05779-07	CBY	50,983
MATOLTSY, ALEXANDER G	CHEMISTRY OF KERATINS AND THEIR PRECURSORS	RO1AM 05924-08	PC	52,849
MC KINNON, ELIZABETH L	POTENTIAL OF BIOLOGICAL RESEARCH IN NURSING	R21NU 00287-01	NR	28,907
MELBY, JAMES C	MECHANISMS REGULATING ADRENOCORTICAL SECRETION	RO1AM 12027-01	END	55,675
PATT, DONALD I	ULTRASTRUCTURE OF DIFFERENTIATING VASCULAR ELEMENTS	RO1HE 06214-07	PTHA	50,234
PETERS, ALAN	STRUCTURE AND ORGANIZATION OF THE CEREBRAL CORTEX	RO1NB 07016-02	NEUA	38,745
POCHI, PETER E	HORMONAL CONTROL OF SEBACEOUS GLAND FUNCTION	RO1AM 07084-07	GMA	62,298
READ, KENNETH R	PRIMARY STRUCTURE OF INVERTEBRATE HEMOGLOBINS	RO1HE 10565-03	HEM	24,547
RELMAN, ARNOLD S	DISORDERS OF METABOLISM AND GI TRACT	PO1AM 05589-06S1	AMP	15,006
ROSENBERG, ISADORE N	IODINE METABOLISM OF THE THYROID GLAND	RO1AM 02585-10	END	51,642
RUTENBURG, ALEXANDER M	URINARY ENZYMES IN MALIGNANT DISEASE	RO1CA 10995-01	PHRB	54,806
SCHMID, KARL	CHEMISTRY OF NORMAL AND ANOMALOUS HUMAN GLYCOPROTEINS	RO1GM 10374-05S1	PC	1,800
SCHMID, KARL	CHEMISTRY OF NORMAL AND ANOMALOUS HUMAN GLYCOPROTEINS	RO1GM 10374-06	PC	97,599
SMALL, DONALD M	PHYSICAL CHEMISTRY OF BIOLOGICALLY ACTIVE LIPIDS	RO1AM 11453-01	BBCB	64,000
SMITH, EDGAR E	ASPARTATE TRANSCARBAMYLASE INHIBITION IN HUMAN CANCER	RO1CA 10996-01	PHRB	20,011
SWEENEY, THOMAS M	NATURE AND SITE OF THE EPIDERMAL WATER BARRIER	RO1AM 12633-01	GMA	45,778
TEPLITZ, CARL	MICROCIRCULATORY DAMAGE IN FATAL BURN & ANOXIC INJURY	RO1HE 10839-02	PTHA	31,237
TERNER, CHARLES	STEROL METABOLISM OF NORMAL AND TUMOR TISSUES	RO1CA 08444-03	MET	23,453
TERNER, CHARLES	SPERM METABOLISM IN THE FEMALE REPRODUCTIVE TRACT	RO1HD 02157-02	REB	18,209
ULLRICK, WILLIAM C	MECHANICAL PROPERTIES OF HEART MUSCLE	RO1HE 07644-05S1	PHY	2,179
WARR, WILLIAM B	THE STRUCTURE AND PROJECTIONS OF THE COCHLEAR NUCLEI	RO1NB 07720-01	CMS	27,576
WILLIAMS, LESTER F, JR	NON-OCCLUSIVE INTESTINAL GANGRENE	RO1AM 08694-03S1	SGYB	9,171
WOTIZ, HERBERT H	STEROIDS IN RELATION TO ENDOCRINE STIMULATED CANCERS	RO1CA 03135-11	END	77,234
YU, CHUAN-TAO	AMINO ACYL RNA SYNTHETASES OF E COLI & OF MOUSE TISSUE	RO1CA 10358-02	BIO	22,968
ZAMCHECK, NORMAN	PATHOLOGY OF THE GASTRO-INTESTINAL TRACT	RO1CA 02090-15	SSS	48,220
INSTITUTION TOTAL	69	3,123,073		
CARNEY HOSPITAL				
MAHONEY, JOHN P	STUDIES OF MANGANESE IN BLOOD AND ALLIED DISEASES	RO1HE 06561-06S1	HEM	8,550
INSTITUTION TOTAL	1	8,550		
CHILDREN'S CANCER RESEARCH FOUNDATION				
CASPAR, DONALD L	STRUCTURE OF VIRUSES	RO1CA 04696-10	BBC	62,175
COHEN, CAROLYN	MUSCLE STRUCTURE AND CONTRACTILE MECHANISM	RO1AM 02633-10	BBCB	52,524
FARBER, SIDNEY	CHEMOTHERAPY OF CANCER & RELATED BIOLOGICAL STUDIES	PO2CA 06516-06S1	SSS	18,687
FARBER, SIDNEY	CHEMOTHERAPY OF CANCER & RELATED BIOLOGICAL STUDIES	PO2CA 06516-07	SSS	2,002,101
FARBER, SIDNEY	PROCUREMENT OF FRESH BLOOD PLATELETS FOR CLINICAL USE	R10CA 08855-03	SRC	156,188

TABLE 2—RESEARCH GRANTS, BY AREA, INSTITUTION, AND PRINCIPAL INVESTIGATOR

INVESTIGATOR	PROJECT TITLE	GRANT NO	IRG	DOLLARS
MASSACHUSETTS—(CON.)				
FARBER, SIDNEY	GENERAL RESEARCH SUPPORT GRANT	S01FR 05526-06	NSS	222,316
LOWEY, SUSAN	CHEMISTRY OF MUSCLE PROTEINS	RO1AM 04762-08	BBCB	28,468
MALKIEL, SAUL	SEROLOGICAL CHARACTERIZATION OF ALLERGENS FROM POLLEN	RO1AI 04778-05S1	IMB	17,060
MOLONEY, WILLIAM C	LEUKEMOGENESIS IN THE RAT	RO1CA 10816-01	PHRB	68,511
SHWACHMAN, HARRY	STUDIES IN CYSTIC FIBROSIS	RO1AM 06339-07	PTHA	63,439
SLAYTER, HENRY S	ELECTRON MICROSCOPY OF MACROMOLECULAR SYSTEMS	RO1GM 14237-02S1	SSS	352
SLAYTER, HENRY S	ELECTRON MICROSCOPY OF MACROMOLECULAR SYSTEMS	RO1GM 14237-03	SSS	36,084
UZMAN, BETTY G	THE STRUCTURE OF THE NEURON	RO1NB 00190-17	MBY	32,096
YERGANIAN, GEORGE	ONCOGENIC VIRUSES AND CELL BIOLOGY OF HAMSTERS	RO1CA 08378-08	GEN	69,150
INSTITUTION TOTAL	14	2,829,151		
CHILDREN'S HOSPITAL MEDICAL CENTER				
BARLOW, CHARLES F	REGIONAL VARIATION IN THE BLOOD-BRAIN BARRIER	RO1NB 05172-05	NEUA	53,270
COHEN, JONATHAN	ASSAY OF FOREIGN BODY REACTION TO METAL POWDERS	RO1HD 00465-14	PTHB	29,496
CONEL, J LEROY	POSTNATAL DEVELOPMENT OF THE HUMAN CEREBRAL CORTEX	RO1HD 00323-20	NEUA	38,260
CRIGLER, JOHN F, JR	GENERAL CLINICAL RESEARCH CENTER FOR CHILDREN	MO1FR 00128-04	CLR	483,318
CRONKHITE, LEONARD W, JR	GENERAL RESEARCH SUPPORT GRANT	S01FR 05482-06	NSS	249,188
DIAMOND, LOUIS K	STUDY OF HYPERBILIRUBINEMIA IN THE NEWBORN	RO1NB 00264-16	HEM	38,655
DRORBAUGH, JAMES E	PLANNING GRANT STUDY OF NEONATAL HYPERBILIRUBINEMIA	RO1NB 07936-01	NSS	6,000
ENDERS, JOHN F	VIRAL CYTOPATHOGENICITY MECHANISMS AND APPLICATIONS	RO1AI 01992-11	VR	79,961
FELLERS, FRANCIS X	METABOLISM OF VITAMIN D IN CHILDREN	RO1AM 09278-02S1	NTN	253
GERALD, PARK S	STRUCTURAL AND DEVELOPMENTAL GENES IN CHILDREN	RO1HD 02724-02	GEN	33,605
GERALD, PARK S	STUDIES OF THE STRUCTURE OF HEMOGLOBIN	RO1HE 04706-09	HEM	56,015
GREEN, WILLIAM T	HUMAN SKELETAL GROWTH AND THE FACTORS MODIFYING IT	RO1HD 01201-09	SGYB	40,628
GROSS, ROBERT E	INVESTIGATIONS RELEVANT TO CARDIOVASCULAR ABNORMALITIES	RO1HE 07130-07	SGYB	184,446
JANEWAY, CHARLES A	REACTIONS AND METABOLISM OF IMMUNE PROTEINS AND CELLS	PO1AI 05877-05	ALY	106,916
MASSELL, BENEDICT F	STREPTOCOCCAL DISEASE AND RHEUMATIC FEVER	RO1HE 04957-09	GM	68,161
NADAS, ALEXANDER S	A MULTIDISCIPLINARY STUDY OF CONGENITAL HEART DISEASE	PO1HE 10436-02S1	HEP	23,418
NADAS, ALEXANDER S	A MULTIDISCIPLINARY STUDY OF CONGENITAL HEART DISEASE	PO1HE 10436-03	HEPA	232,270
NADAS, ALEXANDER S	NATURAL HISTORY OF CONGENITAL HEART DEFECTS-JOINT STUDY	RO1HE 09476-03	SRC	23,515
NATHAN, DAVID G	GRANULOCYTE METABOLISM AND SUSCEPTIBILITY TO INFECTION	RO1AI 08173-01	BM	38,759
NATHAN, DAVID G	LYSIS OF RED CELLS BY HEMOGLOBIN AND MEMBRANE DISEASE	RO1HD 02777-02	HEM	57,681
SMITH, DAVID H	STUDIES ON INFECTIOUS RESISTANCE FACTORS OF BACTERIA	RO1AI 08362-01	GEN	29,472
INSTITUTION TOTAL	21	1,873,287		
DIABETES FOUNDATION				
MARBLE, ALEXANDER	STUDIES IN DIABETES HEREDITY AND LATE COMPLICATIONS	RO1AM 01907-10S1	EDC	3,009
MARBLE, ALEXANDER	PATHOGENESIS OF MICROANGIOPATHY IN DIABETES	RO1AM 04146-07	PTHA	32,399
MARBLE, ALEXANDER	DIABETES PATHOGENESIS DETECTION AND ORAL DRUGS	RO1AM 09478-03	GM	86,147
INSTITUTION TOTAL	3	121,555		
EASTERN NAZARENE COLLEGE				
HALL, LOWELL H, II	ALKALOID AND FERROCENE STRUCTURE BY X-RAY DIFFRACTION	RO1GM 15710-01	BBC	15,234
INSTITUTION TOTAL	1	15,234		
FORSYTH DENTAL CENTER				
BRUDEVOLD, FINN	CHEMISTRY OF ENAMEL SURFACE	RO1DE 02183-04	DEN	171,773
DOGON, ISRAEL L	STUDIES ON ANTIBACTERIAL FACTORS IN HUMAN SALIVA	RO1DE 01868-05	DEN	31,175
FANNING, ELIZABETH A	A RADIOGRAPHIC STUDY OF DENTAL DEVELOPMENT	RO1DE 02729-01	DEN	5,320
GIBBONS, RONALD J	GNOTOBIOTIC APPROACH TO ECOLOGY AND DENTAL DISEASE	RO1DE 01471-07	DEN	87,157
HEIN, JOHN W	CLINICAL & LABORATORY STUDIES OF TROPICAL FLUORIDE	RO1DH 00137-01	DEN	46,900
HEIN, JOHN W	GENERAL RESEARCH SUPPORT GRANT	S01FR 05483-06	NSS	108,983
IRVING, JAMES T	CALCIFICATION OF TEETH AND BONE	RO1DE 00876-10	MET	44,374
IRVING, JAMES T	HISTOCHEMICAL ASPECTS OF CALCIFICATION AND RESORPTION	RO1DE 01592-07	DEN	32,465
MOORREES, COENRAAD F	FACIAL AND DENTAL GROWTH IN TWINS AND THEIR SIBLINGS	RO1DE 01309-08	DEN	96,548
SOCRANSKY, SIGMUND S	TAXONOMIC STUDIES OF ORAL SPIROCHETES	RO1DE 01305-08	BM	40,216
INSTITUTION TOTAL	10	664,911		
FOUNDATION FOR RESEARCH ON THE NERVOUS SYSTEM				
BOGOCH, SAMUEL	STUDIES OF CHILD DEVELOPMENT NORMAL AND RETARDED	RO1HD 01622-02S1	HOP	13,495
BOGOCH, SAMUEL	STUDIES ON THE BIOSYNTHESIS OF GLYCOPROTEINS	RO1NB 05978-03	NEUB	36,808
BOGOCH, SAMUEL	GENERAL RESEARCH SUPPORT GRANT	S01FR 05645-02	NSS	31,401
INSTITUTION TOTAL	3	81,704		
HARVARD UNIVERSITY				
ABELMANN, WALTER H	PATHOPHYSIOLOGY OF THE CIRCULATION	PO1HE 10539-02S1	HEP	637
ABELMANN, WALTER H	PATHOPHYSIOLOGY OF THE CIRCULATION	PO1HE 10539-03	HEP	112,305
ABRAMS, HERBERT L	CINEANGIOCARDIOGRAPHIC STUDIES OF THE HEART	RO1HE 11668-01	SGYB	41,828
ABRAMS, HERBERT L	COOPERATIVE STUDY ON RENOVASCULAR HYPERTENSION	RO1HE 11669-01	SRC	20,754
ADAMS, RAYMOND D	THALAMOCORTICAL CONNECTIONS	RO1NB 00152-17	NEUA	52,266
ADAMS, RAYMOND D	NORMAL AND PATHOLOGIC ANATOMY OF THE FETAL BRAIN	RO1NB 03190-08	PTHA	79,631
ADELSTEIN, S J	MORPHOLOGICAL RADIATION EFFECTS	RO1AM 04219-09	RAD	36,908
ALIPOULIOS, MENELAOS A	THYROCALCITONIN PHYSIOLOGIC INVESTIGATIONS	RO1AM 11572-02	GMB	25,068
ALPERS, JOSEPH B	CARBOHYDRATE METABOLISM IN MAMMALIAN CELLS	RO1AM 05877-07	PC	18,648
AMBROSE, CHARLES T	ANTIBODY PRODUCTION IN VITRO	RO1AI 06861-03	ALY	47,651

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INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRG	DOLLARS
MASSACHUSETTS—(CON.)				
AMOS, HAROLD	ASPECTS OF RNA FUNCTION IN VIRAL INFECTIONS	ROI1 00957-13	VR	38,742
ARKY, RONALD A	REGULATORY FACTORS IN THE FASTED STATE	ROI1AM 11176-02	MET	25,837
ARMSTRONG, DAVID T	HORMONAL CONTROL OF OVARIAN DEVELOPMENT AND FUNCTION	ROI1HD 02503-05	REB	29,022
ATWOOD, DOUGLAS A	RESORPTION OF RESIDUAL DENTAL ALVEOLAR RIDGES	ROI1DE 02157-02S1	DEN	2,243
ATWOOD, DOUGLAS A	RESORPTION OF RESIDUAL DENTAL ALVEOLAR RIDGES	ROI1DE 02157-03	DEN	19,333
BADEN, HOWARD P	STUDY OF THE BIOSYNTHESIS OF KERATIN	ROI1AM 06838-06	MET	33,983
BALL, ERIC G	HORMONE ACTION ON ENZYMES AND METABOLISM	ROI1AM 03132-10	END	25,601
BARGER, A CLIFFORD	KIDNEY FUNCTION IN EXPERIMENTAL HEART FAILURE	ROI1HE 02493-11	CVB	22,957
BARLOW, JOSEPH J	RADIOACTIVE ASSAY OF ESTROGENS IN BLOOD AND URINE	ROI1AM 06654-06	END	15,208
BECKWITH, JONATHAN R	THE CHROMOSOMAL SITES REGULATING OPERON EXPRESSION	ROI1GM 13017-03	GEN	30,892
BENDIXEN, HENRIK H	ANESTHESIOLOGY CENTER FOR RESEARCH AND TRAINING	PO1GM 15904-01	GMP	682,491
BERLIN, RICHARD D	ENZYMATIC REGULATION OF PURINE UPTAKE	ROI1GM 12420-04	BIO	19,102
BERNSTEIN, DANIEL S	CLINICAL STUDIES OF PARATHYROID, BONE, CARTILAGE	ROI1AM 03967-07S1	MET	1,867
BERNSTEIN, DANIEL S	CLINICAL STUDIES OF PARATHYROID, BONE, CARTILAGE	ROI1AM 03967-09	MET	41,961
BIRTCH, ALAN G	HEPATIC HEMODYNAMICS - MEASUREMENT BY INERT GAS ISOTOPE	ROI1HE 10737-02	CVA	20,365
BLINKS, JOHN R	DRUGS AND THE MECHANICAL PROPERTIES OF HEART MUSCLE	ROI1HE 03738-10	PHRA	36,414
BLOUT, ELKAN R	POLYPEPTIDES AND PROTEINS	ROI1AM 07300-05	BBC	73,306
BLOUT, ELKAN R	SYNTHESIS OF PEPTIDES AND POLYPEPTIDES	ROI1AM 10794-02	BBCB	26,205
BRATT, MICHAEL A	NDV INFECTION AND THE SYNTHESIS OF VIRAL RNA	ROI1A 08367-01	VR	48,613
BURNETT, JEAN B	TYROSINASE EVOLUTION, GENETIC CONTROL & BIOCHEMISTRY	ROI1CA 08292-03S1	BIO	8,965
CAHILL, GEORGE F, JR	PHYSIOLOGY, PATHOLOGY AND BIOCHEMISTRY OF DIABETES	ROI1AM 09584-03	MET	222,414
CAMPBELL, CHARLOTTE C	ANTIGENIC STUDIES OF YEAST PHASE HISTOPLASMA CAPSULATUM	ROI1A 07520-02	BM	25,200
CHANG, ROBERT S	MICROBIOLOGICAL STUDIES ON HUMAN CELLS IN VITRO	ROI1HD 00703-15	CBY	28,422
CHERNIN, ELI	BIOLOGICAL CONTROL OF SCHISTOSOMIASIS	ROI1A 00513-15	TMP	69,027
COGAN, DAVID G	METABOLIC HISTOCHEMISTRY OF THE RETINA	ROI1NB 03015-08	VIS	59,153
COGGESHALL, RICHARD E	FLUORESCENCE MICROCOPY OF GANGLION CELLS IN APLYSIA	ROI1NB 07656-01	NEUB	4,353
COGGESHALL, RICHARD E	INDIVIDUAL NEURONS AND THEIR CONNECTIONS IN APLYSIA	ROI1NB 07711-01	NEUB	34,953
COLMAN, ROBERTA F	EFFECT OF COENZYMES ON ENZYME STRUCTURE AND FUNCTION	ROI1AM 12379-01	PC	8,530
COLMAN, ROBERTA F	EFFECT OF COENZYMES ON ENZYME STRUCTURE AND FUNCTION	ROI1AM 12379-02	PC	41,924
COMB, DONALD G	ROLE OF RNA IN CELLULAR DIFFERENTIATION	ROI1GM 12632-04	PC	54,597
COONS, ALBERT H	STUDIES ON ANTIBODY PRODUCTION	ROI1A 05691-13	ALY	76,382
COPE, OLIVER	ROLE OF THORACIC DUCT LYMPH IN RECOVERY FROM SHOCK	ROI1HE 06283-07	SGYB	48,268
COTRAN, RAMZI S	INFLAMMATION - STUDIES ON VASCULAR LEAKAGE	ROI1HE 08251-05	PTHA	32,870
COUCH, NATHAN P	STUDIES IN STORAGE AND METABOLISM OF ISCHEMIC TISSUE	ROI1AM 09717-03	SGYB	17,383
CRAIGHEAD, JOHN E	VIRUS INHIBITION BY CONNECTIVE TISSUE POLYANIONS	ROI1A 05494-05	VR	29,361
CRAIGHEAD, JOHN E	STUDIES ON THE PATHOGENICITY OF EMC VIRUS	ROI1A 06481-04	VR	31,830
CUNNINGHAM, ALASTAIR W	TELENCEPHALIC SPONTANEOUS POTENTIALS IN VITRO	ROI1NB 08082-01	NEUA	31,361
DAMMIN, GUSTAVE J	FACTORS INFLUENCING SURVIVAL OF HOMOGRAFTS	ROI1HE 01771-15	IMB	82,932
DAVIDSON, CHARLES S	LIVER DISEASES AND NUTRITION	PO1AM 09115-04	AMP	163,260
DEUTSCH, STANLEY	ANESTHETIC EFFECTS ON RENAL FUNCTION	ROI1GM 14631-02	PHRB	21,932
DEXTER, LEWIS	CIRCULATORY DYNAMICS IN DISEASES OF CIRCULATION	ROI1HE 00450-18S1	CVA	32,149
DEXTER, LEWIS	CIRCULATORY DYNAMICS IN DISEASES OF CIRCULATION	ROI1HE 00450-19	CVA	62,820
DIAMANDOPOULOS, GEORGE T	VIRAL CARCINOGENESIS WITH SPECIAL REFERENCE TO SV40	ROI1CA 08731-03	VR	52,078
DRESSLER, DONALD P	TOPICAL ANTISEPSIS IN BURNS	ROI1GM 16210-01	SGYA	59,681
EARLEY, LAURENCE E	RENAL FUNCTION AND PARTIAL URETERAL OCCLUSION	ROI1AM 05401-07	GMB	11,525
EATON, MONROE D	STUDIES ON MYCOPLASMA PNEUMONIAE	ROI1A 06661-03	BM	20,280
EATON, MONROE D	CONTROL OF ENZYME AND VIRUS FORMATION IN TUMOR CELLS	ROI1CA 03762-11	VR	27,468
EATON, MONROE D	IMMUNOLOGIC STUDIES OF MOUSE VIRAL LYMPHOMA	ROI1CA 04965-09	VR	28,072
EBERT, ROBERT H	NEW ENGLAND REGIONAL PRIMATE RESEARCH CENTER	PO6FR 00168-07	PME	1,288,978
EBERT, ROBERT H	GENERAL RESEARCH SUPPORT GRANT	SO1FR 05381-07	NSS	366,937
ENGEL, LEWIS L	PATTERNS OF STEROID METABOLISM IN CANCER	ROI1CA 01393-16S1	END	4,714
ENGEL, LEWIS L	PATTERNS OF STEROID METABOLISM IN CANCER	ROI1CA 01393-18	END	110,800
ENGEL, LEWIS L	BACKGROUND STUDIES AND CANCER CHEMOTHERAPY	ROI1CA 02421-15	PHRB	87,553
FAWCETT, DON W	FUNCTIONS OF THE MEMBRANOUS CELL ORGANELLES	ROI1GM 06729-10	CB	31,361
FAWCETT, DON W	EXPERIMENTAL STUDIES ON GAMETOGENESIS AND REPRODUCTION	ROI1HD 02344-03	REB	28,554
FINLAND, MAXWELL	GENERAL CLINICAL RESEARCH CENTER	MO1FR 00076-06	CLR	458,662
FINLAND, MAXWELL	INFECTIOUS DISEASES AND ANTIMICROBIAL THERAPY	ROI1A 00023-19	PHRB	48,763
FINLAND, MAXWELL	VIRAL DISEASES PNEUMONIA, EXANTHEMS AND OTHERS	ROI1A 01695-11	VR	36,108
FITZPATRICK, THOMAS B	ULTRAVIOLET EFFECT ON SKIN AND FUROCOUMARIN RESPONSE	ROI1CA 05003-10	PHRA	55,217
FITZPATRICK, THOMAS B	FACTORS REGULATING TYROSINASE ACTIVITY IN MELANOCYTES	ROI1CA 05010-09	MBY	57,988
FLACKE, WERNER E	ACTIONS OF GERMINE DIACETATE ON SKELETAL MUSCLE	ROI1NB 07112-02	PHRA	32,335
FORBES, ANNE P	METABOLIC DISORDERS & CHROMOSOMAL ABNORMALITIES	ROI1HD 00705-03S1	PTHB	3,284
FOX, EDWARD O	NEOPLASIA IN THE PARAKEET, MELOPSITTACUS UNDULATUS	ROI1CA 05822-06S1	PTHA	1,738
FOZARD, JAMES L	AGING AND THE SELECTION OF INFORMATION	ROI1HD 00340-08	EXP	14,808
FRANK, HOWARD A	COLLATERAL CIRCULATORY MECHANISMS AND THE MYOCARDIUM	ROI1HE 01984-14	SGYB	30,426
FREEDBERG, A STONE	THE THYROID AND THE HEART	ROI1HE 04413-09	PHRA	56,598
FREEDBERG, IRWIN M	STUDIES OF EPIDERMAL MACROMOLECULAR METABOLISM	ROI1AM 06183-06	MET	27,673
FURSPAN, EDWIN J	STUDIES ON CELL INTERCONNECTIONS	ROI1NB 03273-08	PHY	37,012
GERSHOFF, STANLEY N	METABOLISM IN VITAMIN B6 DEFICIENCY	ROI1AM 03056-08	NTN	45,379
GLEASON, RAY E	INFLUENCE OF HEREDITY AND DIET ON DIABETES IN MICE	ROI1AM 11959-01	MET	28,425
GOLDBERG, IRVING H	ASPECTS OF BIOSYNTHESIS	ROI1GM 12573-03S1	PC	5,248
GOLDBERG, IRVING H	ASPECTS OF RNA BIOSYNTHESIS	ROI1GM 12573-05	PC	40,620
GOLDBERGER, PAUL	FURTHER STUDY OF CHEMICAL & PHYSICAL CARCINOGENESIS	ROI1CA 03695-11	PTHB	19,155

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MASSACHUSETTS—(CON.)				
GOLDHABER, PAUL	FURTHER STUDY OF MECHANISM OF PERIODONTAL DISEASE	RO1DE 01298-08	MET	52,662
GOLDSTEIN, LEON	RESPONSE OF RENAL GLUTAMINASE TO METABOLIC ACIDOSIS	RO1AM 06511-06	MET	20,070
GOODMAN, H MAURICE	MECHANISMS OF GROWTH HORMONE ACTION ON FAT METABOLISM	RO1AM 06935-06	MET	33,783
GORINI, LUIGI	BIOSYNTHESIS AND EXCRETION OF BACTERIAL ENZYMES	RO1AI 02011-10S1	PC	6,000
GORINI, LUIGI	BIOSYNTHESIS AND EXCRETION OF BACTERIAL ENZYMES	RO1AI 02011-11	PC	72,626
GORLIN, RICHARD	EXPERIMENTAL MYOCARDIAL PROTEIN SYNTHESIS	RO1HE 09714-02S1	CVB	1,300
GORLIN, RICHARD	EXPERIMENTAL MYOCARDIAL PROTEIN SYNTHESIS	RO1HE 09714-03	CVB	45,139
GREEN, GARETH M	BRONCHOPULMONARY RESISTANCE TO BACTERIAL INFECTION	RO1AI 06577-03S1	BM	10,230
GREEP, ROY O	CNS PITUITARY OVARY INTERRELATIONSHIPS	RO1AM 00292-15	END	94,699
GREEP, ROY O	ERUPTION OF TEETH IN THE IA RAT	RO1DE 01058-08S1	OEN	1,181
HARKEN, DWIGHT E	A PROGRAM FOR CARDIAC SURGERY INVESTIGATION	RO1HE 08698-05	SCYB	45,396
HARTMAN, STANDISH C	ENZYMES OF NITROGEN TRANSFER FROM GLUTAMINE	RO1GM 06591-08S1	BIO	4,250
HAY, ELIZABETH D	CYTOLOGY OF GROWING AND DIFFERENTIATING CELLS	RO1HD 00143-09	MBY	23,232
HEGSTED, D MARK	NUTRITIVE VALUE OF PROTEINS FOR GROWTH	RO1AM 09520-02S1	NTN	1,504
HEGSTED, D MARK	NUTRITIVE VALUE OF PROTEINS FOR GROWTH	RO1AM 09520-03	NTN	27,597
HEGSTED, DAVID M	EFFECTS OF DIET UPON ADIPOSE TISSUE	RO1AM 06245-07	MET	44,396
HEGSTED, DAVID M	SPECIFIC FATTY ACIDS AND CHOLESTEROL METABOLISM	RO1AM 10122-03	NTN	86,242
HENNEMAN, ELWOOD	FEEDBACK CONTROL OF MUSCULAR FORCES BY TENDON ORGANS	RO1NB 07805-01	NEUB	32,067
HERD, JAMES A	CENTRAL CONTROL OF DISTRIBUTION OF ORGAN BLOOD FLOW	RO1HE 09154-04	CVB	35,323
HERD, JAMES A	REGULATION OF BLOOD FLOW THROUGH ADIPOSE TISSUE	RO1HE 11461-01	CVB	19,186
HERRERA, M GUILLERMO	PHYSIOLOGY OF STARVATION DIABETES	RO1AM 11529-02	MET	50,515
HIATT, HOWARD H	INTERMEDIARY METABOLISM IN ANIMALS AND IN MAN	RO1CA 03151-11	MET	95,626
HUBEL, DAVID H	ORGANIZATION OF VISUAL SYSTEM	RO1GM 02260-09	VIS	68,400
INGBAR, SIDNEY H	DISORDERS OF ENDOCRINE FUNCTION	PO1AM 09753-03	AMP	193,535
ITO, SUSUMU	ULTRASTRUCTURE AND FUNCTION OF THE GASTRIC MUCOSA	RO1AM 07578-08	MBY	16,165
JANDL, JAMES H	ERYTHROPOIETIC REGULATION	RO1AM 00795-13	HEM	18,611
JANDL, JAMES H	DESTRUCTION OF RED BLOOD CELLS IN HEMOLYTIC ANEMIAS	RO1HE 07652-06	HEM	31,684
JOEL, CLIFFE D	STUDIES ON BRAIN LIPIDS AND THEIR FATTY ACIDS	RO1NB 05481-04	MET	52,562
JONES, THOMAS C	CYTOGENIC STUDIES ON DISEASED ANIMALS	RO1GM 16209-01	PTHA	13,281
JUNGAS, ROBERT L	ACTION OF INSULIN ON ENZYMES OF ADIPOSE TISSUE	RO1AM 08076-05	PC	22,927
KALCKAR, HERMAN M	GENES, ENZYMES, NUCLEOTIDES, AND CARBOHYDRATE PATTERNS	RO1AM 05639-07	PC	42,353
KAPUR, KRISHAN K	SELECTIVITY IN MASTICATION	RO1DE 02794-01	OEN	8,157
KAPUR, KRISHAN K	THE EFFECT OF BASE DIMENSIONS ON DENTURE EFFICIENCY	RO1DE 02795-01	OEN	28,715
KARNOVSKY, MANFRED L	THE BIOCHEMICAL BASIS OF PHAGOCYTOSIS	RO1AI 03260-09	ALY	36,300
KARNOVSKY, MANFRED L	INTERMEDIARY METABOLISM OF BRAIN DURING SLEEP	RO1NB 07484-01	NEUB	36,004
KARNOVSKY, MORRIS J	STUDIES IN ULTRASTRUCTURAL CYTOCHEMISTRY	RO1HE 09125-04	MBY	24,361
KASS, EDWARD H	PATHOGENESIS OF CHRONIC INFECTIONS	PO1HD 03693-01	HDP	165,738
KASS, EDWARD H	MECHANISMS OF ACTION OF BACTERIAL ENDOTOXIN	RO1AI 07934-02	BM	37,830
KELLEY, RITA M	COOPERATIVE STUDY IN BREAST CANCER THERAPY	R10CA 03740-10A1	SRC	14,684
KENNEDY, EUGENE P	BIOCHEMICAL MECHANISMS OF SUGAR TRANSPORT	RO1GM 13952-03	PC	16,113
KENNEDY, EUGENE P	METABOLISM AND FUNCTION OF COMPLEX LIPIDS	RO1NB 02946-09	MBY	51,881
KINOSHITA, JIN H	CATARACTS	RO1NB 06090-03	VIS	28,617
KOCH-WESER, JAN	PHYSICAL AND CHEMICAL EFFECTS ON CARDIAC CONTRACTION	RO1HE 08643-05	PHRA	24,000
KOCH, JAMES P	CONTROL, DIRECTION AND SPECIFICATION OF MUTAGENESIS	RO1GM 14162-02	GEN	33,243
KRAVITZ, EDWARD A	STUDIES OF SYNAPTIC CHEMISTRY IN THE NERVOUS SYSTEM	RO1NB 07848-01	NEUB	47,108
KUFFLER, STEPHEN W	NEUROPHYSIOLOGICAL AND NEUROCHEMICAL STUDIES	PO1NB 02253-08S1	NBPA	53,730
KUFFLER, STEPHEN W	NEUROPHYSIOLOGICAL AND NEUROCHEMICAL STUDIES	PO1NB 02253-09	NBP	257,964
KUWABARA, TOICHIRO	ULTRASTRUCTURE OF RETINA AND RETINAL DISEASE	RO1NB 02698-08	VIS	67,914
LAMBERT, PETER B	VASCULAR COMPONENTS OF THE HOMOGRAFT RESPONSE	RO1GM 08772-06S1	IMB	11,949
LEITH, DAVID E	COMPARATIVE PHYSIOLOGY OF RESPIRATORY MECHANICS	RO1HE 11918-01	PHY	34,576
LIN, EDMUND C	CONTROL AND EVOLUTION OF ENZYME FORMATION IN BACTERIA	RO1GM 11983-05	BIO	26,593
LITT, MORTIMER	MECHANISMS OF EOSINOPHILIA	RO1AI 04716-06	IMB	30,843
LITTLE, JOHN B	RECOVERY PROCESSES IN AN AMEBOID CELL	RO1CA 10890-01	RAD	42,663
LOCKE, SIMEON	THALAMO-CORTICAL CONNECTIONS IN BRAIN	RO1NB 04131-06	NEUA	21,342
LOWN, BERNARD	VENTRICULAR FIBRILLATION & OTHER CARDIAC ARRHYTHMIAS	RO1HE 07776-05S1	CVA	27,559
LYMAN, CHARLES P	PHYSIOLOGY OF HIBERNATION AND ADAPTATION TO COLD	RO1GM 05197-11	PHY	12,003
LYMAN, CHARLES P	GROWTH AND METABOLISM OF CELLS DURING HIBERNATION	RO1GM 05611-10	CBY	14,955
MAC MAHON, BRIAN	STEERING COMMITTEE, LUNG CANCER RADIOTHERAPY TRIAL	RO1CA 06755-07	RAD	1,168
MAC MAHON, BRIAN	LUNG CANCER RADIOTHERAPY AND SURGERY CLINICAL TRIAL	RO1CA 10005-02	RAD	11,956
MACMAHON, BRIAN	EPIDEMIOLOGIC STUDIES OF CANCER	PO1CA 06373-06	EDC	61,608
MAJNO, GUIDO	ISCHEMIA OF THE SKIN	RO1AM 10829-02	SCYB	19,139
MAJNO, GUIDO	PATHOPHYSIOLOGY OF THE ENDOTHELIUM	RO1NB 08794-05	PTHA	50,936
MARK, VERNON H	CEREBRAL EMBOLIZATION WITH FERROMAGNETIC PARTICLES	RO1NB 06483-03	NEUA	23,578
MAYER, JEAN	OBESITY IN ADOLESCENTS	RO1AM 02839-09	NTN	46,800
MAYER, JEAN	METABOLIC ASPECTS OF OBESITY	RO1AM 02911-09	NTN	61,441
MAYER, JEAN	NEUROPHYSIOLOGY OF FOOD INTAKE	RO1NB 01941-10	EXP	50,847
MC CAUGHAN, DONALD	COOPERATIVE STUDY OF DRUGS AND CORONARY HEART DISEASE	RO1HE 11039-02	SRC	50,303
MC DERMOTT, WILLIAM V, JR	DISEASES OF THE LIVER AND PORTAL CIRCULATION	PO1AM 08681-04	AMP	210,093
MC DERMOTT, WILLIAM V, JR	PERIPHERAL CIRCULATION IN MASSIVE TISSUE INJURY	RO1HE 02014-14	SCYB	55,304
MC GANDY, ROBERT B	ENVIRONMENTAL FACTORS & BLOOD LIPIDS IN ADOLESCENCE	RO1HE 09560-04	SRC	57,680
MEAD, JERE	STUDIES IN RESPIRATORY MECHANICS	RO1GM 12564-03S1	PHY	6,960
MEAD, JERE	STUDIES IN RESPIRATORY MECHANICS	RO1GM 12564-04	PHY	74,657
MEAD, JERE	RESPIRATORY STUDIES IN INFANTS AND YOUNG CHILDREN	RO1HD 01392-04	CVA	40,338

TABLE 2—RESEARCH GRANTS, BY AREA, INSTITUTION, AND PRINCIPAL INVESTIGATOR

INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRG	DOLLARS
MASSACHUSETTS—(CON.)				
MIETTINEN, OLLI S	NATURAL HISTORY OF CONGENITAL HEART DEFECTS	ROIHE 10988-03	SRC	44,081
MONACO, ANTHONY P	STUDIES ON ANTI-LYMPHOCYTE SERUM	ROIAI 08558-01	IMB	81,252
MOORE, FRANCIS D	METABOLIC ASPECTS OF SURGICAL CARE AND CONVALESCENCE	ROIAM 02657-10	SGYB	92,752
MOREST, DONALD K	STRUCTURE AND CONNECTIONS OF POSTERIOR THALAMUS	ROIINB 06115-04	NEUB	24,669
MURPHY, SHELDON D	FACTORS AFFECTING PESTICIDE TOXICITY	ROIES 00084-04	TOX	56,014
MURRAY, JOSEPH E	STUDIES ON TISSUE TRANSPLANTATION	ROIAI 04606-06	SSS	128,239
NALBANDIAN, JOHN	ULTRASTRUCTURE AND PHYSIOLOGY OF ORAL MUCOSA AND BONE	ROIIDE 01766-06	DEN	69,925
NICHOLS, GEORGE, JR	THE BIOCHEMISTRY AND PHYSIOLOGY OF BONE	ROIAM 00854-13	GMB	100,081
NIKAIKO, HIROSHI	BIOCHEMISTRY OF BACTERIAL CELL MEMBRANES	ROIAI 05729-05	MBC	45,360
NORMAN, JOHN C	FUNCTION OF THE ISOLATED PERFUSED PORCINE LIVER	ROIAM 10517-02	SGYB	27,474
OAKS, J HOWARD	GENERAL RESEARCH SUPPORT GRANT	SO1FR 05318-07	NSS	119,238
OFNER, PETER	C19-STEROID METABOLISM BY THE PROSTATE GLAND	ROIICA 10343-02	END	24,361
OLSON, CAMILLE B	ACTION OF DRUGS AND OF HEART RATE ON CARDIAC MUSCLE	ROIHE 11888-01	PHRA	30,927
OSBORNE, MELVIN P	THE RELATION OF BOWEL RESECTION TO GASTRIC SECRETION	ROIAM 09491-03	SGYB	48,277
PALAY, SANFORD L	THE FINE STRUCTURE OF THE NERVOUS SYSTEM	ROIINB 03659-07	CBY	26,088
PAPPENHEIMER, JOHN R	FLUID ENVIRONMENT OF THE BRAIN	ROIINB 03615-07	NEUA	20,635
PAULUS, HENRY	STUDIES ON THE BIOSYNTHESIS OF POLYMYXIN B	ROIIGM 09396-07	MBC	25,517
PECHET, MAURICE M	ENDOCRINE MECHANISMS AND METABOLIC INTERRELATIONS	ROIAM 01156-10S1	END	1,505
PECHET, MAURICE M	ENDOCRINE MECHANISMS AND METABOLIC INTERRELATIONS	ROIAM 01156-12	END	26,950
REDDY, WILLIAM J	MECHANISM OF ACTION OF INSULIN	ROIAM 09262-03S1	MET	6,895
REDDY, WILLIAM J	PITUITARY AND STEROID HORMONE EFFECTS ON METABOLISM	ROIAM 10009-03	END	29,111
REIF-LEHRER, LIANE	DIFFERENTIATION OF RETINA	ROIINB 07532-01	MBY	41,809
REVEL, JEAN PAUL	ULTRASTRUCTURAL LOCALIZATION OF METABOLIC ACTIVITIES	ROIIGM 11380-05	MBY	13,701
RICHARDSON, CHARLES C	STUDIES ON THE STRUCTURE AND SYNTHESIS OF DNA	ROIAI 06045-05	PC	70,023
ROMANUL, FLAVIA C A	REFLEX ANALYSIS OF DYSTONIA	ROIINB 04610-05	NEUB	13,911
ROMANUL, FLAVIU C A	HISTOCHEMICAL STUDIES IN NEUROPATHOLOGY	ROIINB 02603-09	PTHA	13,146
ROTHMAN, STEPHEN S	PANCREATIC SECRETION OF SALTS AND ENZYMES IN VITRO	ROIAM 10455-02S1	PHY	29,201
ROTHMAN, STEPHEN S	PANCREATIC SECRETION OF SALTS AND ENZYMES IN VITRO	ROIAM 10455-03	PHY	24,628
RUTENBURG, ALEXANDER M	EVALUATION OF NEW AGENTS FOR THE TREATMENT OF CANCER	ROIICA 02972-08S1	PHRB	8,710
RUTSTEIN, DAVID D	LIPIDS IN CELLS AND SERUM IN HUMAN HEALTH AND DISEASE	ROIHE 03989-08S2	NTN	18,725
RYSER, HUGUES J	PENETRATION OF MACROMOLECULES INTO MAMMALIAN CELLS	ROIICA 10750-07	MBY	36,983
RYSER, HUGUES J	PENETRATION OF MACROMOLECULES INTO MAMMALIAN CELLS	ROIIGM 08482-06S1	MBY	3,656
SALHANICK, HILTON A	MODE OF ACTION OF PROGESTATIONAL HORMONES	ROIAM 10081-03	END	56,826
SASAHARA, ARTHUR A	LOCALIZATION OF INTRAVASCULAR COAGULATION	ROIHE 06763-06S1	SGYB	6,699
SASAHARA, ARTHUR A	LOCALIZATION OF INTRAVASCULAR COAGULATION	ROIHE 06763-07	SGYB	3,630
SCHWABE, CHRISTIAN	PROTEIN TURNOVER IN BOVINE DENTAL PULP	ROIIDE 02453-02S1	PC	22,239
SCHWABE, CHRISTIAN	PROTEIN TURNOVER IN BOVINE DENTAL PULP	ROIIDE 02453-03	PC	24,265
SEGALL, ASCHER J	CORONARY DISEASE IN AMERICAN AND ISRAELI SIBLINGS	ROIHE 10241-02S1	SRC	20,379
SEGALL, ASCHER J	CORONARY DISEASE IN AMERICAN AND ISRAELI SIBLINGS	ROIHE 10241-03	SRC	29,448
SHAW, JAMES H	BIOCHEMICAL STUDIES IN PERIODONTAL DISEASE	ROIIDE 03022-12	DEN	24,349
SHAW, JAMES H	BIOCHEMICAL STUDIES IN THE CALCIFIED TISSUES	ROIIDE 03073-15	DEN	32,250
SHEA, STEPHEN M	KINETICS OF CELL PROLIFERATION IN REGENERATING LIVER	ROIAM 06557-05S1	CBY	12,712
SIDMAN, RICHARD L	PATHOGENESIS OF INHERITED DEVELOPMENTAL BRAIN DISEASE	ROIINB 03262-08	PTHA	54,304
SIDMAN, RICHARD L	EMBRYOLOGY OF NERVOUS SYSTEM	ROIINB 04792-05	NEUA	64,217
SIDMAN, RICHARD L	CYTOGENESIS OF EMBRYONIC HUMAN CENTRAL NERVOUS SYSTEM	ROIINB 07053-01	NEUB	37,446
SIMON, WILLIAM	BIOMEDICAL TECHNICAL RESOURCE GROUP	PO7FR 00246-03S1	COM	44,261
SMITH, DAVID H	STUDIES ON INHIBITION BY NOVODICIN OF DNA SYNTHESIS	ROIIGM 14119-02	GEN	18,863
SMITH, OLIVE W	METABOLISM AND SECRETION OF ESTROGENS IN WOMEN	ROIHD 00709-11S1	END	689
SNYDER, JOHN C	PREVENTION OF TRACHOMA AND OTHER INFECTIOUS DISEASES	ROIAI 06251-04	SSS	207,389
SNYDER, JOHN C	GENERAL RESEARCH SUPPORT GRANT	SO1FR 05446-07	NSS	276,041
SOLOMON, A K	PROPERTIES OF WATER RELATED TO MEMBRANE PROCESSES	ROIIGM 15692-01	PHY	44,753
SPIRO, MARY J	STUDIES ON THYROGLOBULIN	ROIAM 09198-04	PC	36,067
SPIRO, ROBERT G	STUDIES ON THE BIOSYNTHESIS OF GLYCOPROTEINS	ROIAM 05363-07	BIO	25,878
SPIRO, ROBERT G	STUDIES ON THE STRUCTURE OF GLYCOPROTEINS	ROIAM 10482-03	BIO	38,330
STARE, FREDRICK J	PRIMATES IN CARDIOVASCULAR RESEARCH	ROIHE 10098-04	HEP	252,290
STEINKE, JURGEN	FETAL INSULIN AND ANTI-RH SENSITIZATION	ROIHD 02171-02	MET	23,334
SZABO, GEORGE	DYNAMICS, FINE STRUCTURE AND BEHAVIOR OF MELANOCYTES	ROIICA 05401-07S3	MBY	46,818
TABER-PIERCE, ELIZABETH	HISTOGENESIS IN NORMAL AND ABNORMAL BRAIN STEM	ROIINB 03756-07	NEUA	26,955
TASHJIAN, ARMEN H, JR	PEPTIDE HORMONES AFFECTING MINERAL METABOLISM	ROIAM 10206-02	END	46,308
TASHJIAN, ARMEN H, JR	DIFFERENTIATED FUNCTION IN DISPERSED CELL CULTURES	ROIAM 11011-02	MBY	43,569
THOMAS, CHARLES A, JR	MOLECULAR GENETICS	ROIAI 08186-01	GEN	143,812
THORN, GEORGE W	GENERAL CLINICAL RESEARCH CENTER	MO1FR 00031-07S1	CLR	140,988
THORN, GEORGE W	GENERAL CLINICAL RESEARCH CENTER	MO1FR 00031-08	CLR	854,411
THORN, GEORGE W	PROJECT IN BIOMATHEMATICS-MATHEMATICAL BIOLOGY	PO1GM 14938-01	GMP	137,833
TRENDELENBURG, ULLRICH G	PERIPHERAL AUTONOMIC NERVOUS SYSTEM PHARMACOLOGY	ROIINB 01713-11	PHRA	34,133
TRENDELENBURG, ULLRICH G	DEVELOPMENT OF DENERVATION SUPERSENSITIVITY	ROIINB 06913-02	PHRA	30,240
TYLER, JOHN M	PHYSIOLOGY OF PULMONARY FAILURE	ROIHE 03804-09S1	CVA	2,699
TYLER, JOHN M	CEREBROVASCULAR RESPONSE TO CO2 IN EMPHYSEMA	ROIHE 11948-01	CVB	9,315
ULMER, DAVID O	SPECTROPOLARIMETRIC STUDIES OF METALLOPROTEINS	ROIIGM 11639-05	BIO	17,217
VALADIAN, ISABELLE	ADULT SOCIAL FUNCTIONING RELATED TO CHILD DEVELOPMENT	ROIHD 01134-04	HSR	32,465
VALLEE, BERT L	THE BIOLOGICAL FUNCTION OF METALS	PO1GM 15003-07	GMP	309,600
VILLEE, CLAUDE A	ENZYMOLGY OF STEROID SYNTHESIS BY HUMAN PLACENTA	ROIHD 00404-05S1	END	7,200
VILLEE, CLAUDE A	MECHANISM OF ACTION OF STEROID HORMONES	ROIHD 01232-14	END	24,959

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INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRG	DOLLARS
MASSACHUSETTS—(CON.)				
VILLEE, DOROTHY B	CONTROL OF ENZYME ACTIVITY IN TISSUE EXPLANTS	R01AM 08026-02S2	MET	241
VILLEE, DOROTHY B	CONTROL OF ENZYME ACTIVITY IN TISSUE EXPLANTS	R01AM 08026-05	MET	32,627
VON LICHTENBERG, FRANZ C	STUDIES ON SCHISTOSOMIASIS AND ON GRANULOMA FORMATION	R22AI 02631-10	SSS	25,158
WALLACH, DONALD F H	CELL COHESION AND TUMOR INVASIVENESS	R01CA 07382-06	CBY	52,735
WAUD, DOUGLAS R	STUDY OF DRUG-RECEPTOR INTERACTIONS	R01NB 04618-06	PHRA	26,814
WELLER, THOMAS H	STUDY OF PATHOGENIC AGENTS USING IN VITRO TECHNIQUES	R01AI 01023-13	VR	75,275
WELLS, HERBERT	SALIVA AND FUNCTIONAL ACTIVITY OF THE ORAL CAVITY	R01DE 02509-02	DEN	57,831
WELLS, HERBERT	GROWTH AND ACTIVITY OF SALIVARY GLANDS	R01DE 02598-10	DEN	45,636
WHITTENBERGER, JAMES L	OCCUPATIONAL AND ENVIRONMENTAL HEALTH	P01ES 00002-05S1	SSS	7,679
WHITTENBERGER, JAMES L	OCCUPATIONAL AND ENVIRONMENTAL HEALTH	P10ES 00002-06	SSS	411,994
WIEDMANN, TIEN-WEN T	SUPPRESSION OF SPECIFIC ANTIBODY FORMATION BY ANTIBODY	R01AI 07432-02	ALY	27,668
WIESEL, TORSTEN N	STUDIES OF THE VISUAL SYSTEM	R01NB 05554-04	VIS	55,900
WILSON, T HASTINGS	INTESTINAL ABSORPTION: TRANSPORT MECHANISMS	R01AM 05736-07	PHY	54,214
INSTITUTION TOTAL	242	14,618,353		
INSTITUTE FOR APPLIED EAR RESEARCH				
JAKO, GEZA J	EUSTACHIAN TUBE ENDOSCOPY	R01NB 07561-01	CMS	9,195
INSTITUTION TOTAL	1	9,195		
INTERNATIONAL CARDIOVASCULAR SOCIETY				
DETERLING, RALPH A, JR	VIII INTERNATIONAL CARDIOVASCULAR SOCIETY CONGRESS	R13HE 11586-01	NSS	9,850
INSTITUTION TOTAL	1	9,850		
LAHEY CLINIC FOUNDATION				
NUGENT, WARREN F	CIRCULATORY COLLAPSE IN ACUTE PANCREATITIS	R01AM 09050-04	PHRB	22,188
INSTITUTION TOTAL	1	22,188		
MASSACHUSETTS DEPARTMENT OF PUBLIC HEALTH -- MASSACHUSETTS HEALTH RESEARCH INSTITUTE				
NEVINNY-STICKEL, HANS B	PROPHYLACTIC OOPHORECTOMY IN BREAST CANCER THERAPY	R01CA 06260-07	SGYA	9,158
INSTITUTION TOTAL	1	9,158		
MASSACHUSETTS EYE AND EAR INFIRMARY				
BALOGH, KAROLY	CHEMICAL AND MORPHOLOGICAL FOUNDATIONS OF HEARING	R01NB 04155-06	CMS	31,592
COGAN, DAVID G	INTRINSIC AND EXTRINSIC OCULAR DISEASE INVESTIGATIONS	P01NB 05691-03	NBPP	419,948
GRANT, W MORTON	PRESSURE-REGULATING MECHANISMS IN GLAUCOMA	R01NB 00218-16	VIS	28,000
KIANG, NELSON Y S	PHYSIOLOGICAL STUDIES OF THE AUDITORY SYSTEM	R01NB 01344-12	CMS	175,614
KIMURA, ROBERT S	ELECTRON MICROSCOPY OF THE INNER EAR	R01NB 03932-07	CMS	37,379
MONTGOMERY, WILLIAM W	METHODS OF CORRECTING DYSFUNCTIONS OF THE HUMAN LARYNX	R01NB 06796-02	CMS	19,688
SCHUKNECHT, HAROLD F	OTOPATHOLOGY BY LIGHT MICROSCOPY	R01NB 05881-03	CMS	18,976
SCHUKNECHT, HAROLD F	BIOCHEMISTRY OF INNER EAR FLUIDS	R01NB 07677-01	CMS	14,751
WOOD, CHARLES T	GENERAL RESEARCH SUPPORT GRANT	S01FR 05485-06	NSS	110,438
INSTITUTION TOTAL	9	856,386		
MASSACHUSETTS GENERAL HOSPITAL				
ADAMS, RAYMOND D	NORMAL AND PATHOLOGICAL ANATOMY OF THE HUMAN BRAIN	R01NB 03571-07	PTHA	21,849
AISENBERG, ALAN C	BASIC IMMUNOLOGICAL STUDIES AND HODGKINS DISEASE	R01CA 07179-05	IMB	48,057
AMES, ADELBERT, III	ELECTROLYTES AND FUNCTION IN CENTRAL NERVOUS SYSTEM	R01NB 07702-06	PHY	28,373
ASBURY, ARTHUR K	SCHWANN CELL PROLIFERATION AUTORADIOGRAPHIC ANALYSIS	R01NB 07500-01	PTHA	27,218
ASTROM, KARL E	ELECTRON MICROSCOPY OF ABNORMALLY DEVELOPING CEREBRUM	R01NB 07596-01	PTHA	63,451
AUSTEN, W GERALD	COMPARISON OF PULSATILE AND NON PULSATILE BLOOD FLOW	R01HE 10141-03	SGYA	43,951
AUSTEN, WILLIAM G	HEMODYNAMIC STUDIES RELATED TO PULMONARY HYPERTENSION	R01HE 08043-05	SGYA	43,152
BARLOW, JOHN S	COMPUTER STUDIES OF BRAIN POTENTIALS	R01NB 03752-07	COM	28,380
BARNETT, G OCTO	HOSPITAL COMPUTER PROJECT	R01GM 15287-03	COM	542,855
BECK, WILLIAM S	RIBOSOMAL BINDING OF VITAMIN B12	R01AM 06214-06	MBC	27,434
BECK, WILLIAM S	THE METABOLISM OF NORMAL AND LEUKEMIC LEUKOCYTES	R01CA 03728-11	BIO	36,834
BLACK, PAUL H	MECHANISMS OF TRANSFORMATION BY ONCOGENIC VIRUSES	R01CA 10126-02	VR	74,026
BLANK, IRVIN H	PHYSICAL AND CHEMICAL NATURE OF THE CUTANEOUS BARRIER	R01GM 13997-02	GMA	60,035
BUCHER, NANCY L	CYTOPLASMIC FACTORS IN CELLULAR GROWTH	R01CA 02146-15	CBY	32,190
BURKE, JOHN FRANCIS	EARLY INFECTIOUS INFLAMMATION	R01AI 02392-10	PTHA	59,570
CARTER, JAMES R, JR	MEMBRANE-BOUND ENZYMES IN LIPID BIOSYNTHESIS	R01AM 11429-02	MBY	33,816
CASTLEMAN, BENJAMIN	THE ENDOCRINE GLANDS AND NEOPLASTIC DISEASE	R01CA 03424 11	PTHB	115,242
CAULFIELD, JAMES B	ELECTRONMICROSCOPY OF DISEASE AT THE CELLULAR LEVEL	R01CA 04955-09	PTHB	80,166
CLARK, WALLACE H, JR	MORPHOLOGIC TYPES OF MALIGNANT MELANOMA	R01CA 06221-07	GMA	57,315
COLMAN, ROBERT W	MOLECULAR BASIS OF ACTIVATION OF COAGULATION PROTEINS	R01HE 11519-01	HEM	44,490
CORI, CARL F	CELLULAR REGULATION OF ENZYME ACTIVITY	R01AM 11448-02	PC	65,875
CRAWFORD, JOHN D	THE RELATION OF INHIBITED FAT RELEASE TO OBESITY	R01AM 11576-02	MET	24,524
DIENES, LOUIS L	PPLO AND L FORMS OF BACTERIA IN HEALTH AND DISEASE	R01AI 05625-04S1	BM	18,754
DIENES, LOUIS L	PPLO AND L FORMS OF BACTERIA IN HEALTH AND DISEASE	R01AI 05625-05	BM	48,567
DREYFUS, PIERRE M	B VITAMIN DEFICIENCIES EFFECTS ON THE NERVOUS SYSTEM	R01NB 01906-10	NTN	25,820
FISHER, C MILLER	PATHOLOGY OF LACUNES, CEREBRAL HEMORRHAGE, INFARCTS	R01NB 05152-03S1	NEUA	2,000
FISHER, CHARLES M	PATHOLOGY OF LACUNES, CEREBRAL HEMORRHAGE, INFARCTS ETC	R01NB 05152-05	NEUA	48,420
FLAX, MARTIN H	PATHOGENESIS OF ALLERGIC DISEASE AT THE CELLULAR LEVEL	R01AI 05550-06	IMB	50,953
FLAX, MARTIN H	STUDIES OF OCULAR HYPERSENSITIVITY REACTIONS	R01NB 06977-02	VIS	15,340
GERGELY, JOHN	BIOCHEMICAL STUDY OF NORMAL AND DISEASED HUMAN MUSCLE	R01AM 09835-03	PC	21,443
GLIMCHER, MELVIN J	THE MOLECULAR BIOLOGY OF MINERALIZED TISSUES	P01AM 06375-06	AMP	627,669

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MASSACHUSETTS—(CON.)				
GRIESEMER, ROBERT D	LIPID METABOLISM IN THE SKIN	R01AM 02523-10	GM	35,554
GRILLO, HEMMES C	STUDIES IN WOUND HEALING	R01AM 12459-12	CBY	44,906
GROSS, JEROME	STUDY OF MESENCHYMAL TISSUES AND THEIR DISEASES	P01AM 03564-09	AMP	456,750
HABER, EDGAR	SEQUENCE, SHAPE AND SPECIFICITY OF ANTIBODIES	R01AI 04967-06	PC	95,653
HYSLOP, NEWTON E, JR	STUDIES ON THE PRIMARY IMMUNE RESPONSE	R01AI 08070-01	ALY	41,422
ISSELBACHER, KURT J	GALACTOSE METABOLISM IN GALACTOSEMIA	R01AM 01392-12	MET	42,426
ISSELBACHER, KURT J	METABOLIC STUDIES ON INTESTINAL AND COLONIC MUCOSA	R01AM 03014-10	PC	67,519
ISSELBACHER, KURT J	GENERAL RESEARCH SUPPORT GRANT	S01FR 05486-06	NSS	406,324
JACOBY, GEORGE A, JR	CONTROL OF ARGININE BIOSYNTHESIS IN E COLI	R01AM 12133-01	MBC	11,320
JEANLOZ, ROGER W	CHEMISTRY OF BACTERIAL CELL WALLS	R01AI 06692-04	MBC	54,744
JEANLOZ, ROGER W	PROPERTIES OF A GLYCOLIPID FROM CANCER TISSUE	R01CA 08418-03	ALY	32,300
KALCKAR, HERMAN M	GENE, ENZYME, NUCLEOTIDE, CARBOHYDRATE PATTERNS	R01AM 05507-07	PC	119,557
KLIMAN, BERNARD	MECHANISMS OF ALDOSTERONE SECRETION IN HYPERTENSION	R01AM 11019-02	GMB	32,333
LANG, DAVIO J	PERSISTENT CONGENITAL AND NEONATAL VIRUS INFECTIONS	R01HD 02906-01	VR	44,006
LEAF, ALEXANDER	CARDIOPULMONARY FUNCTION IN REMEDIABLE HEART DISEASE	P01HE 06664-07	HEP	379,073
LEAF, ALEXANDER	METABOLIC DISEASE RESEARCH CENTER AT THE MGH	P02AM 04501-07	AMP	462,687
LEAF, ALEXANDER	SHORT-LIVED GASEOUS ISOTOPES IN MEDICINE AND BIOLOGY	R01HE 09994-03	SSS	52,563
LEAK, LEE V	LYMPHATIC CAPILLARIES DURING EARLY INFLAMMATION	R01AI 07348-03	PTHA	17,292
LELE, PADMAKAR P	A STUDY OF SPINAL SENSORY PROCESSES	R01NB 03222-07	NEUB	53,236
LESKOWITZ, SIDNEY	FACTORS IN ALLERGIC RESPONSE	R01AI 01289-12	IMB	80,513
LITTLEFIELD, JOHN W	STUDIES ON DNA IN NORMAL AND NEOPLASTIC CELLS	R01CA 04670-09	GEN	50,700
LOWELL, FRANCIS C	ALLERGY OF THE RESPIRATORY TRACT	R01AI 02638-10	IMB	41,105
LOWENSTEIN, EDWARD	EFFECT OF ANESTHESIA ON VASCULAR CAPACITY-RESISTANCE	R01GM 04738-02	SGYB	15,512
MALT, RONALD A	CHANGES AFTER NEPHRECTOMY AT BIRTH AND DURING GROWTH	R01HD 01988-03	GM	25,946
MARTIN, DONALD B	THE RELATION OF TREATMENT TO DIABETIC COMPLICATIONS	R01AM 04495-08	SSS	36,629
MC ARTHUR, JANET W	BIOLOGICAL PROPERTIES OF HUMAN GONADOTROPINS	R01AM 04378-07	END	54,953
MC KHANN, CHARLES F	ANTIGENIC PROPERTIES OF MALIGNANT CELLS	R01CA 08366-03	IMB	11,018
MELBIN, MURRAY	CONTROLLED UNCERTAINTY FOR NURSING PERSONNEL	R02NU 00251-02	NR	40,074
MOSER, HUGO W	BRAIN LIPIDS IN DIFFUSE DEMYELINATIVE DISEASES	R01NB 02672-07S1	PTHA	2,170
MOSER, HUGO W	BRAIN LIPIDS IN DIFFUSE DEMYELINATIVE DISEASES	R01NB 02672-09	PTHA	45,150
MOSES, JOHN M	MECHANISMS OF INFLAMMATION	R01AM 08771-05	ALY	40,457
OJEMANN, ROBERT G	EXTRACRANIAL ARTERIAL OCCLUSION JOINT STUDY	R01HE 04769-09	SRC	13,673
OJEMANN, ROBERT G	MEASUREMENT OF REGIONAL CEREBRAL BLOOD FLOW	R01NB 05769-02S1	NEUA	1,879
POTTS, JOHN T, JR	PEPTIDE HORMONES AND MINERAL METABOLISM	P01AM 11794-01	AMP	171,361
RIEDER, SIDNEY V	FORMATION OF L-GLUCOSAMINE FROM D-GLUCOSE IN S GRISEUS	R01AM 05196-08	BIO	10,665
ROTH, SANFORD I	COMPARATIVE HISTOGENESIS OF HAIR AND SQUAMATE SKIN	R01CA 10844-01	PTHB	44,705
RUSSELL, PAUL S	TRANSPLANTATION IMMUNOLOGY CENTER	P02AI 06320-04	ALY	207,887
RUSSELL, PAUL S	STUDIES ON TISSUE SPECIFICITY	R01AM 07055-04S1	SGYA	49
RUSSELL, PAUL S	STUDIES ON TISSUE SPECIFICITY	R01AM 07055-06	SGYA	47,317
SANFORD, BARBARA H	MASKING OF TRANSPLANTATION ANTIGENS BY SIALOMUCIN	R01CA 10090-02	IMB	16,185
SCOTT, JESSE F	HISTOCHEMISTRY OF UNCONTROLLED CELL GROWTH	R01CA 00558-21	MBY	22,536
SHIH, VIVIAN E	NEW AMINO ACID DISORDERS IN CEREBRAL DISEASE	R01NB 05096-04S1	MET	12,570
SHIH, VIVIAN E	NEW AMINOACID DISORDERS IN CEREBRAL DISEASE	R01NB 05096-05	MET	67,725
SIDMAN, MURRAY	BEHAVIORAL CLASSIFICATION OF NEUROLOGICAL PATIENTS	R01NB 03535-07	NEUA	91,194
SWARTZ, MORTON N	ROLE OF 6-METHYL ADENINE IN BACTERIAL AND VIRAL DNA	R01AI 05082-06	BIO	30,173
SWEET, WILLIAM H	NORMAL CELLS, CANCER CELLS THEIR INTERRELATIONSHIPS	P01CA 07368-05	SSS	254,298
SWEET, WILLIAM H	STUDY OF ANEURYSMS AND ACUTE SUBARACHNOID HEMORRHAGE	R01NB 04348-05	SSS	13,816
SWEET, WILLIAM H	EXCHANGES BETWEEN BLOOD, NORMAL AND ABNORMAL BRAIN	R01NB 04512-06	NEUA	59,731
WARSHAW, JOSEPH B	CELLULAR ENERGY METABOLISM DURING FETAL DEVELOPMENT	R01HD 03610-01	MET	31,150
WEINBERG, ARNOLD N	HORMONE EFFECTS ON THE BIOLOGY OF LEUCOCYTES	R01AM 07499-06	BM	29,551
WINN, HENRY J	STUDIES IN TRANSPLANTATION IMMUNOLOGY	R01AI 06918-03	IMB	50,459
YOUNG, DAVID M	MOLECULAR STRUCTURE AND FUNCTION OF MYOSIN AND ACTIN	R01AM 09404-04	BBCB	28,433
ZACHARIAS, LEONA	HUMAN MATURATION UNDER VARIOUS CONDITIONS	R01HD 01582-03	EDC	34,485
INSTITUTION TOTAL	84	6,551,503		
MASSACHUSETTS SOC FOR PREV OF CRUELTY TO ANIMALS				
GILMORE, CHARLEY E	DISEASE IN ANIMALS RELATED TO AGING	R01HD 00517-08	PTHA	27,690
INSTITUTION TOTAL	1	27,690		
MASSACHUSETTS ST DEPT OF MH--MASSACHUSETTS MENTAL HEALTH CENTER				
EWALT, JACK R	GENERAL RESEARCH SUPPORT GRANT	S01FR 05555-06	NSS	42,196
INSTITUTION TOTAL	1	42,196		
MASSACHUSETTS UNIVERSITY OF				
LAUFER, DANIEL A	PROTEIN CONFORMATION AND ENZYMIC ACTIVITY	R01GM 15538-01	BBCA	17,916
WEAVER, JAMES N	BIOCHEMISTRY OF DIMORPHISM	R01GM 13558-02S1	TMP	384
WEAVER, JAMES N	BIOCHEMISTRY OF DIMORPHISM	R01GM 13558-03	TMP	10,768
INSTITUTION TOTAL	3	29,068		
NEW ENGLAND DEACONESS HOSPITAL				
FRIEDELL, GILBERT H	THE PATHOGENESIS OF HUMAN BLADDER CANCER	R01CA 10210-02	PTHB	59,473
GREENGARD, OLGA	THE REGULATION OF MAMMALIAN ENZYME SYNTHESIS	R01CA 08676-04	BIO	33,551
KNOX, W EUGENE	REGULATION OF TYROSINE AND TRYPTOPHAN METABOLISM	R01AM 00567-15	BIO	43,078
SIEGLER, RICHARD	THE ROLE OF THE THYMUSES IN LEUKEMIA	R01CA 10761-01	PTHB	46,887

TABLE 2—RESEARCH GRANTS, BY AREA, INSTITUTION, AND PRINCIPAL INVESTIGATOR

INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRG	DOLLARS
MASSACHUSETTS—(CON.)				
WARREN, SHIELDS	GENERAL RESEARCH SUPPORT GRANT	SO1FR 05591-04	NSS	60,334
INSTITUTION TOTAL 5	243,323			
NEW ENGLAND MEDICAL CENTER HOSPITALS				
ALLEN, DONALD M	HYPERTRANSFUSION & IRON CHELATION IN THALASSEMIA	RO1HE 10037-04	HEM	19,825
ASTWOOD, EDWIN B	GENERAL CLINICAL RESEARCH CENTER	MO1FR 00054-07	CLR	469,086
ASTWOOD, EDWIN B	PITUITARY HORMONES	RO1AM 00612-16	END	69,265
BRAY, GEORGE A	ADIPOSE TISSUE METABOLISM IN OBESITY	RO1AM 09897-03	MET	11,244
CROSBY, WILLIAM H	BONE MARROW INJURY AND REPAIR	RO1AM 12444-01	HEM	31,394
CROSBY, WILLIAM H	NEOPLASTIC PROLIFERATIVE DISORDERS OF THE WHITE CELLS	RO1CA 04168-09S1	HEM	65,992
DRACHMAN, DANIEL B	NERVE-MUSCLE INTERACTIONS IN EMBRYONIC DEVELOPMENT	RO1HD 01083-04	PHRA	24,997
ESSIG, ALVIN	MECHANISMS OF PERMEATION OF BIOLOGICAL MEMBRANES	RO1GM 12852-02	PHY	19,253
ETSTEN, BENJAMIN E	CARDIO-CIRCULATORY EFFECTS OF ANESTHESIA	RO1HE 01711-17	SGYA	155,252
FISHMAN, WILLIAM H	FUNDAMENTAL ENZYMOLOGIC STUDIES APPLIED TO ONCOLOGY	RO1CA 07538-05	PTHB	68,706
KAPLAN, MARSHALL M	ENZYME REGULATION IN LIVER DISEASE	RO1AM 10571-02	MET	29,107
KREIDBERG, MARSHALL B	PULMONARY ARTERY COARCTATION: CLINICAL NECROPSY CORRELAT	RO1HD 01894-02S1	PTHA	466
KREIDBERG, MARSHALL B	PULMONARY ARTERY COARCTATION CLINICAL NECROPSY STUDY	RO1HD 01894-03	PTHA	35,470
LEVINE, HERBERT J	CARDIODYNAMICS AND METABOLISM OF CONGESTIVE FAILURE	RO1HE 07139-07	CVB	37,254
LEVITAN, RUVEN	WATER AND ELECTROLYTE ABSORPTION FROM THE BOWEL	RO1AM 09332-03	GM	57,047
LISTER, JULIUS	BREEDING OF LABORATORY ANIMALS	PO6FR 00237-03S1	AR	124,142
LISTER, JULIUS	BREEDING OF LABORATORY ANIMALS	PO6FR 00237-04	AR	175,093
LISTER, JULIUS	PLASMA REFILLING AFTER HEMORRHAGE	RO1HD 01084-03S1	SGYB	7,307
LISTER, JULIUS	PLASMA REFILLING AFTER HEMORRHAGE	RO1HD 01084-04	SGYB	29,427
MARCHANT, DOUGLAS J	ADJUVANT UTERINE CANCER CHEMOTHERAPY	RO1CA 07362-05	SRC	3,437
NEURATH, PETER W	QUANTITATIVE HUMAN CHROMOSOME STUDY AIDED BY COMPUTER	RO1HD 02860-02	GEN	29,809
PATTERSON, JAMES F	FAT ABSORPTION IN THE HUMAN INTESTINE	RO1AM 11566-01	GMA	47,672
PORTER, HUNTINGTON	STUDY OF COPPER PROTEINS IN NORMAL AND DISEASED BRAIN	RO1NB 01733-09S1	PC	680
PORTER, HUNTINGTON	STUDY OF COPPER PROTEINS IN NORMAL AND DISEASED BRAIN	RO1NB 01733-10	PC	30,500
PROGER, SAMUEL	DIETARY FATS, PLASMA LIPIDS AND BLOOD COAGULATION	RO1HE 03753-10	HEM	52,090
RABEN, MAURICE S	ACTION AND CLINICAL EVALUATION OF GROWTH HORMONE	RO1AM 01567-12	END	40,933
RABEN, MAURICE S	HUMORAL & METABOLIC ASPECTS OF CARDIAC FUNCTION	RO1HE 06924-06	MET	21,441
REYNOLDS, ROBERT N	ANESTHESIA AND PULMONARY VENTILATION IN INFANTS	RO1HE 04645-09	SGYB	11,670
SCHMIDT, GERHARD	METABOLIC STUDIES WITH SPHINGOLIPIDS AND PLASMALOGENS	RO1HE 03457-12	PC	13,284
SCHMIDT, GERHARD	CHEMISTRY AND METABOLISM OF BRAIN LIPIDS	RO1NB 00356-20	PC	31,785
SCHWARTZ, ROBERT S	INDUCTION OF ANTIBODY SYNTHESIS	RO1AI 07555-02	IMB	35,562
SCHWARTZ, ROBERT S	FINE STRUCTURE OF IMMUNOLOGICAL REACTIONS	RO1AI 08574-01	IMB	56,019
SCHWARTZ, ROBERT S	CHEMICAL SUPPRESSION OF IMMUNITY	RO1AM 07937-06	IMB	53,580
SCHWARTZ, ROBERT S	STUDY OF SYSTEMIC LUPUS ERYTHEMATOS	RO1AM 09351-03	PTHA	98,926
SCHWARTZ, ROBERT S	TRANSPLANTATION DISEASE AND LEUKEMIA	RO1CA 10018-02	IMB	58,578
SCHWARTZ, WILLIAM B	REGULATION OF ELECTROLYTE AND ACID-BASE EQUILIBRIUM	RO1HE 00759-18	CVA	125,835
SOROFF, HARRY S	METABOLIC EFFECTS OF GROWTH HORMONE FOLLOWING TRAUMA	RO1AM 07544-04	SGYA	40,826
SOROFF, HARRY S	EVALUATION OF SYNCHRONOUS ASSISTANCE	RO1HE 08164-05	SGYA	48,109
SPIKER, ELLWYN D	GENERAL RESEARCH SUPPORT GRANT	SO1FR 05598-03	NSS	205,566
THROWER, WENDELL B	MECHANICALLY ASSISTED CIRCULATION IN HEART FAILURE	RO1HE 08766-04S1	SGYA	7,682
WEINSTEIN, LOUIS	MECHANISM OF ACTION OF BACTERIAL EXOTOXINS	RO1AI 07066-03	MBC	30,080
WEINSTEIN, LOUIS	EFFECTS OF NUTRITION AND DISEASE ON INTESTINAL FLORA	RO1AI 08223-01	BM	48,448
WILGRAM, GEORGE F	MELANOMA MECHANISM OF CHANGE TO ITS ALBINO MUTANT	RO1CA 10364-02	PTHB	62,355
WILGRAM, GEORGE F	PATHOLOGY AND PATHOGENESIS OF KERATINIZATION	RO1GM 15291-02	PTHB	44,358
INSTITUTION TOTAL 44	2,629,552			
NORTHEASTERN UNIVERSITY				
ARMINGTON, JOHN C	CORRELATIVE STUDIES OF POTENTIALS FROM THE VISUAL SYSTEM	RO1NB 07529-01	VIS	53,296
SCHARF, BERTRAM	LOUDNESS SUMMATION ACROSS TIME GAPS	RO1NB 07270-02	CMS	38,800
SOLOWAY, ALBERT H	HAPTENE-PROTEIN COMPLEXES FOR CANCER THERAPY	RO1CA 10533-01	ALY	24,155
INSTITUTION TOTAL 3	116,251			
P H S BUREAU OF HEALTH SERVICES-P H S HOSPITAL				
THURM, RICHARD H	COOPERATIVE STUDY OF RENAL DISEASE & HYPERTENSION	RO1HE 09757-04	SRC	22,014
THURM, RICHARD H	COOPERATIVE STUDY OF TREATMENT OF HYPERTENSION	RO1HE 10717-02	SRC	18,754
INSTITUTION TOTAL 2	40,768			
PETER BENT BRIGHAM HOSPITAL				
DAMMIN, GUSTAVE J	CARDIOVASCULAR-RENAL/TRANSPLANTATION RESEARCH CENTER	PO1HE 06370-07	HEP	59,694
DAY, ROBERT T	GENERAL RESEARCH SUPPORT GRANT	SO1FR 05489-06	NSS	300,405
DINGMAN, JOSEPH F	NEUROHYPOPHYSEAL FUNCTION IN MAN	RO1HD 03006-02	GMB	50,672
DINGMAN, JOSEPH F	SEX HORMONES AND CHOLESTEROL METABOLISM	RO1HE 11393-01S1	END	8,604
GOLDSTEIN, DONALD P	DETECTION AND PREVENTION OF TROPHOBLASTIC DISEASE	RO1CA 08388-03	PHRA	31,928
GORLIN, RICHARD	CARDIAC FUNCTION, METABOLISM AND BLOOD SUPPLY	RO1HE 08591-04	CVB	80,305
HICKLER, ROGER B	ANTIHYPERTENSIVE FUNCTION OF THE KIDNEY	RO1HE 09604-03	CVB	46,248
MERRILL, JOHN P	PATHOPHYSIOLOGY AND TREATMENT OF UREMIA	RO1HE 08260-05	GM	57,641
MOLONEY, WILLIAM C	INVESTIGATIONS OF MYELOPROLIFERATIVE DISORDERS	RO1CA 10732-01	HEM	16,246
MURRAY, JOSEPH E	KIDNEY, SKIN AND LIVER HOMOGRAFTS IN MAN	PO2AI 06091-05	IMB	148,687
O BRIEN, THOMAS F	IMMUNOCHEMISTRY OF ACTIVE CENTER CARBOXYPEPTIDASE	RO1AI 07910-02	ALY	19,430
OKEN, DONALD E	RENAL MICROPUNCTURE STUDIES OF ACUTE RENAL FAILURE	RO1AM 08695-04	GMA	26,371

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INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRG	DOLLARS
MASSACHUSETTS—(CON.)				
OKEN, DONALD E	MICROPUNCTURE STUDY OF RENAL PROTEIN TRANSPORT	RO1AM 10919-02	GMA	29,078
REYNOLDS, EDWARD S	CYTOCHEMISTRY AND MORPHOLOGY OF CELL INJURY	RO1GM 14323-02	PTHB	29,037
SNODGRASS, PHILIP J	CHLORINATED HYDROCARBONS IN LIVER DISEASE	RO1AM 07848-05	PTHB	30,056
THORN, GEORGE W	CARDIOVASCULAR RESEARCH PROGRAM	PO1HE 11306-01S1	HEPA	132,582
THORN, GEORGE W	CARDIOVASCULAR RESEARCH PROGRAM	PO1HE 11306-02	HEPA	640,413
INSTITUTION TOTAL	17	1,707,397		
RETINA FOUNDATION				
ADDOLPH, ALAN R	NEUROPHARMACOLOGY OF THE EYE	RO1NB 06111-03	VIS	41,167
BALAZS, ENDRE A	STUDIES ON THE CONNECTIVE TISSUES OF THE EYE	RO1NB 03370-07	VIS	212,006
BALAZS, ENDRE A	GENERAL RESEARCH SUPPORT GRANT	SO1FR 05527-06	NSS	191,312
DOHLMAN, CLAES H	STUDIES ON CORNEAL HYDRATION, WOUND HEALING AND GRAFTING	RO1NB 02220-08S1	VIS	28,800
DOHLMAN, CLAES H	STUDIES ON CORNEAL DEHYDRATION, WOUND HEALING & GRAFTING	RO1NB 02220-09	VIS	194,740
GERGELY, JOHN	BIOCHEMISTRY OF MUSCLE CONTRACTION	RO1HE 05949-08	BBCB	143,588
JULIAN, FRED J	FORCE, VELOCITY AND SARCOMERE SPACING IN MUSCLE	RO1AM 09891-02	PHY	19,708
LEHRER, SHERWIN S	FLUORESCENCE AND PHOSPHORESCENCE STUDIES ON PROTEINS	RO1AM 11677-02	BBCA	33,660
NAGY, BELA F	CHEMICAL STRUCTURE OF MYOFIBRILLAR PROTEINS	RO1AM 11235-02	BBCB	14,981
PHARO, RICHARD L	STUDIES ON NAOH-UBIQUINONE REDUCTASE	RO1HE 11698-01	BIO	28,859
REFOJO, MIGUEL F	SYNTHETIC HYDROPHILIC POLYMERS FOR EYE SURGERY	RO1NB 06456-03	VIS	35,155
SANADI, D RAO	STUDIES ON OXIDATIVE PHOSPHORYLATION	RO1GM 13641-03	BIO	106,884
SCHEPENS, CHARLES L	CONNECTIVE TISSUE DISEASES OF THE EYE	PO1NB 03489-07	NBP	212,260
SWANN, DAVID A	STRUCTURE AND METABOLISM OF COMB HYALURONIC ACID	RO1AM 11822-01	PC	32,370
WOLF, ERNST	VISUAL SENSITIVITY IN NORMAL AND ABNORMAL RETINA	RO1NB 01482-11	VIS	52,104
WRIGHT, BARBARA E	BIOCHEMISTRY OF DIFFERENTIATION IN SLIME MOLDS	RO1GM 15938-01	MBC	53,143
INSTITUTION TOTAL	16	1,400,737		
ROBERT B. BRIGHAM HOSPITAL				
AUSTEN, K FRANK	EXPERIMENTAL CLINICAL INVESTIGATION PROGRAM IN R A	RO1AM 12051-02	SSS	39,018
AUSTEN, K FRANK	GENERAL RESEARCH SUPPORT GRANT	SO1FR 05669-01	NSS	41,188
AUSTEN, KARL F	IN VITRO STUDIES OF THE MECHANISM OF ANAPHYLAXIS	RO1AI 07722-02	IMB	46,803
BAYLES, THEODORE B	CLINICAL RESEARCH UNIT IN RHEUMATIC DISEASES	PO2AM 05577-07	AMP	365,024
DAVID, JOHN R	STUDIES ON DELAYED HYPERSENSITIVITY	RO1AI 07685-03	ALY	32,711
GOTTLIEB, A ARTHUR	ANTIBODY PRODUCTION ROLE OF MACROPHAGE NUCLEIC ACIDS	RO1AI 08307-01	ALY	35,278
KULKA, JOHANNES P	PHYSIOPATHOLOGY OF LOCALLY IMPAIRED MICROCIRCULATION	RO1AM 02349-09S1	PTHA	2,268
KULKA, JOHANNES P	PHYSIOPATHOLOGY OF LOCALLY IMPAIRED MICROCIRCULATION	RO1AM 02349-10	PTHA	28,666
SCHUR, PETER H	IMMUNOCHEMICAL STUDIES OF IMMUNE COMPLEXES IN DISEASE	RO1AM 11414-02	ALY	26,964
INSTITUTION TOTAL	9	617,920		
ST. ELIZABETH'S HOSPITAL OF BOSTON				
BRAVERMAN, LEWIS E	LOW THYROXINE BINDING PREALBUMIN	RO1AM 07917-05	END	28,141
EBBE, SHIRLEY N	KINETICS OF MEGAKARYOCYTE AND PLATELET TURNOVER	RO1AM 08263-05	HEM	25,353
FLEMING, MARIE C	FACTORS AFFECTING CARBOHYDRATE METABOLISM OF THE BRAIN	RO1NB 06636-02S1	PHRA	3,001
FLEMING, MARIE C	FACTORS AFFECTING CARBOHYDRATE METABOLISM OF BRAIN	RO1NB 06636-03	PHRA	14,900
STOHLMAN, FREDERICK, JR	REGULATION OF ERYTHROPOIESIS	RO1HE 07542-06	HEM	82,232
INSTITUTION TOTAL	5	153,627		
ST. MARGARET'S HOSPITAL				
BARDAWIL, WADI A	GENERAL RESEARCH SUPPORT GRANT	SO1FR 05608-02	NSS	16,027
BAUMSTARK, JOHN S	ELASTASE, SERUM INHIBITORS AND THE VASCULATURE	RO1HE 10190-03	PC	41,772
GILFILLAN, ROBERT F	EFFECTS OF CONNECTIVE TISSUE COMPONENTS ON CELLS	RO1CA 08338-04	PHRB	49,749
MITCHELL, GEORGE W, JR	HOST-PARASITE RELATIONSHIPS IN PREGNANCY	RO1HD 01805-04	BM	43,557
SBARRA, ANTHONY J	METABOLISM OF NEOPLASTIC CELLS DURING PHAGOCYTOSIS	RO1CA 05307-08	HEM	34,120
INSTITUTION TOTAL	5	185,225		
TUFTS UNIVERSITY				
CALISTI, LOUIS J	GENERAL RESEARCH SUPPORT GRANT	SO1FR 05319-07	NSS	98,625
CHALMERS, THOMAS C	STUDIES IN CHRONIC LIVER DISEASE	RO1AM 07417-06	GM	42,913
CHALMERS, THOMAS C	INTERHOSPITAL COOPERATIVE STUDIES OF CIRRHOSIS	RO1AM 09128-04	DC	32,019
COHEN, JOSEPH L	TUMOR INFLUENCE ON HOST LIVER METABOLISM	RO1CA 10709-01	MET	21,217
CORMAN, LEONARD	PURIFICATION OF PTEROIC ACID BIOSYNTHESIS ENZYME	RO1AI 08461-01	MBC	24,618
CURTIS, BRIAN A	EXCITATION-CONTRACTION COUPLING IN SKELETAL MUSCLE	RO1NB 06107-03	PHY	17,652
CYNKIN, MORRIS A	ROLE OF SUGAR NUCLEOTIDES IN POLYSACCHARIDE SYNTHESIS	RO1AI 03586-08	MBC	19,588
FEAGANS, WILLIAM M	ORAL MUCOSA - FINE STRUCTURE-HISTOCHEMISTRY	RO1DE 02605-02	DEN	12,497
FERRIS, ERNEST J	CEREBRAL ROENTGENOLOGY OF SMALL VESSELS	RO1HE 11866-01	RAD	38,262
FRIEDKIN, MORRIS E	NEW ANTAGONISTS OF AMETHOPTERIN-RESISTANT LEUKEMIA	RO1CA 05997-07	PHRB	47,760
GIDDON, DONALD B	PHYSIOLOGICAL CORRELATES OF ACUTE NECROTIZING GINGIVITIS	RO1DE 02154-05	EPR	32,969
GIDDON, DONALD B	VASCULAR RESPONSES OF HUMAN ORAL MUCOSA TO VARIOUS THERA	RO1DE 02316-03	DEN	25,325
GLICKMAN, IRVING	A RESEARCH PROGRAM IN EXPERIMENTAL ORAL PATHOLOGY	RO1DE 00646-10	DEN	44,396
GOLDBERG, EDWARD B	GENETIC CONTENT AND RECOMBINATION OF DNA FRAGMENTS	RO1GM 13511-03	GEN	20,880
GRADY, GEORGE F	PREVENTION OF HEPATITIS AFTER CARDIOVASCULAR SURGERY	RO1HE 10223-03	SRC	68,013
GRADY, GEORGE F	PREVENTION OF HEPATITIS AFTER CARDIOVASCULAR SURGERY	RO1HE 10230-03	SRC	19,086
GREENBERG, MORTIMER S	DRUG INDUCED BLOOD DYSCRASIA GRANULOCYTOPENIA	RO1AM 08722-04	HEM	30,520
GREENBERG, MORTIMER S	IRON OVERLOAD AS AN EXAMPLE OF DRUG TOXICITY	RO1AM 11243-02	HEM	35,200
HASHIMOTO, KEN	ULTRASTRUCTURE IN SKIN ALLERGIES AND SKIN TUMOR	RO1GM 10299-05S1	PTHB	18,918
HUGHES, WALTER L	POPULATION KINETICS OF TUMORS IN VIVO	RO1CA 10735-01	PHRB	108,660

TABLE 2—RESEARCH GRANTS, BY AREA, INSTITUTION, AND PRINCIPAL INVESTIGATOR

INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRG	DOLLARS
MASSACHUSETTS—(CON.)				
JACOBSON, STANLEY	INTRACORTICAL SITES OF CALLOSAL AND THALAMIC SYNAPSES	RO1NB 07666-01	NEUB	13,533
KETCHEL, MELVIN M	IMMUNOLOGICAL ASPECTS OF TROPHOBLAST	RO1HD 01945-02	IMB	34,237
KRANT, MELVIN J	COOPERATIVE BREAST GROUP CLINICAL PROTOCOL STUDIES	R10CA 07167-04S2	SRC	12,499
KRANT, MELVIN J	COOPERATIVE CANCER CHEMOTHERAPY STUDY	R10CA 07190-05A1S1	SRC	7,120
KRANT, MELVIN J	EASTERN COOPERATIVE ONCOLOGY GROUP	R10CA 07190-06	SRC	62,334
KRONMAN, JOSEPH H	HISTOCHEMISTRY OF ALVEOLAR BONE AFTER TOOTH MOVEMENT	R01DE 02702-01	DEN	18,152
LEVER, WALTER F	PLASMA PROTEIN FRACTIONATION IN VARIOUS DISEASES	RO1AM 04486-08	GMA	43,639
LISS, MAURICE	PROTEIN METABOLISM IN KERATINIZATION	RO1AM 05931-07	MET	32,134
MADOFF, MORTON A	EFFECTS OF MICROBIAL TOXINS ON CELL MEMBRANES	R01AI 07762-02	BM	21,844
MALAMY, MICHAEL H	SPONTANEOUS MUTANTS OF THE LACTOSE OPERON OF E COLI	RO1GM 14814-02	MBC	25,535
MALONEY, WILLIAM F	GENERAL RESEARCH SUPPORT GRANT	S01FR 05382-07	NSS	261,311
MANLY, RICHARD S	PROPERTIES OF DENTAL PLAQUE RELATED TO DENTAL CARIES	R01DE 02018-05	DEN	25,019
MANLY, RICHARD S	PLAQUE POLYSACCHARIDES AND DENTAL CARIES INCIDENCE	R01DE 02751-01	DEN	19,135
MITCHELL, MARVIN L	UTILIZATION AND BINDING OF INSULIN	RO1AM 03729-08S1	END	8,523
MITCHELL, MARVIN L	MODIFIERS OF GLUCOSE METABOLISM	RO1AM 12640-01	MET	15,206
MOORE, EDWARD W	STUDIES OF GASTRIC SECRETION	RO1AM 10377-03	GM	35,791
NABSETH, DONALD C	IMMUNITY TO THE LETHAL EFFECTS OF ACUTE PANCREATITIS	RO1AM 09638-03	IMB	16,998
NISHIMURA, JONATHAN S	MECHANISM OF ACTION OF SUCCINYL COENZYME A SYNTHETASE	RO1GM 13742-03	BIO	5,882
PARK, JAMES T	CHEMISTRY AND BIOSYNTHESIS OF MICROBIAL CELL WALLS	R01AI 05090-07	BIO	64,605
REIF, ARNOLD E	EXPERIMENTAL STUDIES ON IMMUNITY TO CANCER CELLS	R01CA 04469-09	IMB	16,177
ROTHSTEIN, FRED	METAL COORDINATION COMPLEX IN FIBRINOGEN PURIFICATION	R01HE 10278-03	PC	3,231
RUSTIGIAN, ROBERT	NATURE AND CHARACTERISTICS OF LATENT VIRAL INFECTIONS	R01AI 01675-10A1	VR	60,298
SCHAECHTER, MOSELIO	PHYSIOLOGICAL STUDIES OF BACTERIAL GROWTH	R01AI 05103-05	MBC	29,862
SIE, HSIEN-G	BIOCHEMISTRY OF GLYCOGENOLYSIS AND GLYCOGENESIS	RO1AM 09532-03	BIO	23,011
SILBERT, JEREMIAH E	METABOLISM OF MUCOPOLYSACCHARIDES	RO1AM 08816-04	PC	15,500
THOMAS, DUNCAN P	PATHOGENESIS OF PULMONARY THROMBOEMBOLIC DISEASE	R01HE 09203-04A1	PTHA	45,468
WINER, RICHARD A	SALIVARY GLAND PHYSIOLOGY IN MONGOLISM	R01HD 02305-03	DEN	21,608
WISE, EDMUND M, JR	MECHANISMS FOR CONTROL OF ENZYME ACTIVITY IN BACTERIA	R01CA 08982-02	MBC	28,983
WRIGHT, ANDREW	STRUCTURE AND FUNCTION OF LIPIDS IN THE CELL MEMBRANE	RO1GM 15837-01	MBY	46,115
INSTITUTION TOTAL	49	1,772,868		
UNIVERSITY HOSPITAL				
BAKST, HENRY J	GENERAL RESEARCH SUPPORT GRANT	S01FR 05487-06	NSS	194,411
BURROWS, BELTON A	RENAL FUNCTION STUDIES WITH RADIOACTIVE COMPOUNDS	R01HE 05571-06S1	CVB	8,344
BURROWS, BELTON A	COOPERATIVE STUDY OF RENOVASCULAR HYPERTENSION	R01HE 06658-07	SRC	21,394
COFFMAN, JAY D	VASODILATOR DRUGS, BLOOD FLOW, AND VENOUS TONE	R01HE 10026-03	CVA	6,333
DONALDSON JR., ROBERT M	ALIMENTARY FUNCTION IN HEALTH AND DISEASE	RO1AM 03560-09	GM	38,075
EMERSON, CHARLES P	MECHANISMS OF ANEMIA IN CANCER	RO1CA 05773-06S2	PHRB	11,676
FILLIOS, LOUIS C	DIETARY HEPATIC LIPIDOSIS AND PROTEIN SYNTHESIS	R01HE 11073-02	NTN	34,959
FRIEDMAN, EPHRAIM	OPHTHALMIC OPD CLINICAL RESEARCH PROJECT	P15NB 06843-02	NBPB	65,490
GESCHWIND, NORMAN	COOPERATIVE STUDY OF ACTH IN MULTIPLE SCLEROSIS	R10NB 06228-03	SRC	19,283
GORE, IRA	ARTERIAL GROUND SUBSTANCE AND ATHEROSCLEROSIS	R01HE 07327-07	PTHA	86,758
HARRIS, LAURAN D	SPHINCTER STRENGTH ITS MEASUREMENT AND CONTROL	RO1AM 11907-01	GMA	32,180
HOLLANDER, WILLIAM	STUDIES OF HYPERTENSION AND ATHEROSCLEROSIS	R01HE 01536-15	CVB	60,000
HOLLANDER, WILLIAM	CELLULAR STUDIES OF HYPERTENSION & ATHEROSCLEROSIS	R01HE 10739-02	CVB	46,900
HUCKABEE, WILLIAM E	BLOOD FLOW & METABOLISM OF FETUS IN UTERO	R01HD 02345-09	HED	14,261
HUCKABEE, WILLIAM E	METABOLIC CONTROL OF THE CIRCULATION	R01HE 06297-07	CV	21,937
MC CABE, WILLIAM R	EPIDEMIOLOGY AND VIRULENCE FACTORS OF STAPHYLOCOCCI	RO1AI 05941-05	BM	41,877
RELMAN, ARNOLD S	CLINICAL METABOLIC RESEARCH UNIT	P02AM 08657-04	AMP	162,589
SANDER, LOUIS W	ADAPTATION AND PERCEPTION IN EARLY INFANCY	R01HD 01766-03	DBR	70,579
STRAUSS, JOHN S	EVALUATION OF PATHOGENIC FACTORS IN ACNE VULGARIS	RO1AM 07388-06	GMA	75,247
SULLIVAN, LOUIS W	ERYTHROPOIESIS IN MEGALOBLASTIC ANEMIAS	RO1AM 11329-02	HEM	45,680
WILKINS, ROBERT W	HYPERTENSION, ATHEROSCLEROSIS AND CIRCULATORY FAILURE	P01HE 07299-07	HEP	346,700
INSTITUTION TOTAL	21	1,404,673		
VINCENT MEMORIAL HOSPITAL				
HERBST, ARTHUR L	CHOLESTEROL DEPLETION ASSAY OF LUTEINIZING HORMONE	R01HD 01660-02S1	END	508
INSTITUTION TOTAL	1	508		
BRIGHTON				
JOSEPH P. KENNEDY JR. MEMORIAL HOSPITAL				
MALONE, MICHAEL J	COMPOSITION OF ABNORMAL MYELIN AND PLASMA MEMBRANES	RO1NB 07751-01	NEUB	58,989
INSTITUTION TOTAL	1	58,989		
BROOKLINE				
BOSTON HOSPITAL FOR WOMEN - PARKWAY DIVISION				
CRAIG, JOHN M	EXPERIMENTAL APPROACHES TO THE TOXEMIA OF PREGNANCY	R01HD 01172-07	PTHA	8,394
EHRMANN, ROBERT L	STUDY OF ENDOMETRIUM-TROPHOBLAST INTERACTION IN VITRO	RO1CA 05905-07	PTHB	17,748
INSTITUTION TOTAL	2	26,142		
CAMBRIDGE				
BIO-RESEARCH INSTITUTE				
BAJUSZ, EORS	HEREDITARY TYPE OF CONGESTIVE HEART FAILURE	R01HE 09791-03	PTHA	26,596
BERNFELD, PETER	WATER-INSOLUBLE ENZYMES	RO1GM 12802-04	PC	14,340

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INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRG	DOLLARS
MASSACHUSETTS—(CON.)				
BERNFELD, PETER	GLYCOPROTEINS OF MURINE ENDOMETRIAL SECRETIONS	R01HD 02629-02	MET	29,302
BERNFELD, PETER	BETALIPOPROTEINS	R01HE 03850-11S1	BBC	1,309
BERNFELD, PETER	ENZYMIC DEGRADATION OF LIPOPROTEIN	R01HE 07149-07	PC	13,549
BOGER, ELIAHU	BIOLOGICAL EFFECTS OF FLUOROBENZ RST PENTAPHENES	R01CA 10069-02	PHRB	19,250
HOMBURGER, FREDDY	PRIMARY MYOPATHY IN HAMSTERS	R01AM 06190-07	PTHA	25,250
HOMBURGER, FREDDY	SAFETY EVALUATION OF FOOD ADDITIVES	R01CA 05230-07S1	NTN	186
HOMBURGER, FREDDY	CHEMICAL CARCINOGENESIS IN INBRED SYRIAN HAMSTERS	R01CA 10101-02	PTHB	59,445
HOMBURGER, FREDDY	AGING STUDIES IN SYRIAN HAMSTERS	R01HD 00769-04S1	GEN	1,412
HOMBURGER, FREDDY	AGING STUDIES IN SYRIAN HAMSTERS	R01HD 00769-05	PTHA	21,184
HOMBURGER, FREDDY	GENERAL RESEARCH SUPPORT GRANT	S01FR 05525-06	NSS	40,252
INSTITUTION TOTAL	12	253,075		
BLOOD RESEARCH INSTITUTE				
ANTONIADES, HARRY N	STUDIES OF HORMONES TRANSPORTED BY HUMAN PLASMA	R01AM 08381-10	END	64,794
JANEWAY, CHARLES A	GENERAL RESEARCH SUPPORT GRANT	S01FR 05626-02	NSS	75,026
PENNEL, ROBERT B	CENTER FOR RESEARCH UPON BLOOD	P01HE 06302-08	HEPA	345,017
INSTITUTION TOTAL	3	484,837		
HARVARD UNIVERSITY				
BARTLETT, PAUL D	THE RELATION BETWEEN IONIC AND RADICAL BOND CLEAVAGE	R01GM 05981-10	MCHA	50,565
BARTLETT, PAUL D	NUCLEAR MAGNETIC RESONANCE SPECTROSCOPY	R01GM 10993-12	BBCB	29,400
BERG, HOWARD C	CHEMICAL MODIFICATION OF CELL MEMBRANES	R01GM 14423-02	PHY	18,256
BLOCH, KONRAD E	BIOSYNTHESIS AND FUNCTION OF LIPOIDS	R01HE 02477-12	PC	116,875
BOGORAD, LAWRENCE	ENZYMATIC SYNTHESIS OF PORPHYRINS	R01AM 11363-01	MCB	10,134
BOGORAD, LAWRENCE	ENZYMATIC SYNTHESIS OF PORPHYRINS	R01AM 11363-02	MCB	67,750
BOGORAD, LAWRENCE	THE DEVELOPMENT AND ULTRASTRUCTURE OF ORGANELLES	R01GM 14991-01	MBY	84,193
BONNEVILLE, MARY A	CYTODIFFERENTIATION DURING AMPHIBIAN METAMORPHOSIS	R01GM 14935-01S1	CBY	2,852
BONNEVILLE, MARY A	CYTODIFFERENTIATION DURING AMPHIBIAN METAMORPHOSIS	R01GM 14935-02	CBY	18,514
BOWER, THOMAS G	PERCEPTION AND COGNITION IN HUMAN INFANTS	R01HD 03050-01	EXP	25,199
BROWN, ROGER W	STUDIES OF LINGUISTIC CONTROL IN CHILDHOOD	R01HD 02908-02	DBR	49,132
BRUNER, JEROME S	RESEARCH ON COGNITIVE GROWTH IN INFANCY	R01HD 03049-01	PCR	76,080
CONE, RICHARD A	VISUAL EXCITATION ROLE OF EARLY RECEPTOR POTENTIAL	R01NB 06108-03	VIS	8,243
COREY, ELIAS J	NEW METHODS OF COMPLEX MOLECULAR SYNTHESIS	R01AI 05669-05	MCHA	80,010
DENHARDT, DAVID T	THE MECHANISM OF REPLICATION OF BACTERIOPHI X-174	R01AI 07097-03	VR	31,267
DENHARDT, DAVID T	BIOLOGICAL INVESTIGATIONS WITH ISOTOPES	R01GM 05365-11	MBY	42,238
DOLPHIN, DAVID H	THE BIOSYNTHESIS OF THE VITAMIN B12 COENZYME	R01AM 11577-01	MCB	22,780
DOTY, PAUL	THE ROLE OF RIBONUCLEIC ACIDS IN PROTEIN SYNTHESIS	R01GM 11023-12	PC	23,436
DOTY, PAUL M	STRUCTURE AND FUNCTION OF NUCLEIC ACIDS	R01HD 01229-17	PC	197,697
FLEXER, ABRAHAM S	SUPPORT OF CENTRAL LABORATORY FOR ELECTRON MICROSCOPY	R01GM 06637-09	MBY	109,990
FORD, FRANKLIN L	BIOMEDICAL SCIENCES SUPPORT	S05FR 07046-03	NSS	116,868
GILES, EUGENE	DIFFERENTIATION IN TWO NEW GUINEA POPULATION ISOLATES	R01GM 15457-01	GEN	7,433
GUIDOTTI, GUIDO	INTERACTIONS BETWEEN MACROMOLECULES IN SOLUTION	R01HE 08893-04	BBCB	58,377
HAITH, MARSHALL M	PERCEPTUAL AND COGNITIVE DEVELOPMENT IN HUMAN INFANTS	R01HD 02680-02	DBR	50,852
HERRNSTEIN, RICHARD J	A COMPUTER FACILITY FOR PSYCHOPHYSIOLOGICAL RESEARCH	R01GM 15258-01S1	COM	61,285
HERRNSTEIN, RICHARD J	A COMPUTER FACILITY FOR PSYCHOPHYSIOLOGICAL RESEARCH	R01GM 15258-02	COM	225,644
HOWELLS, WILLIAM W	MEDICAL-ANTHROPOLOGICAL STUDIES IN SOLOMON ISLANDS	R01GM 13482-02	EDC	108,400
HUBBARD, RUTH	CHEMISTRY OF VISION	R01NB 00568-12S1	VIS	283
HUBBARD, RUTH	CHEMISTRY OF VISION	R01NB 00568-14	VIS	17,189
LEVI, HERBERT W	SYSTEMATIC STUDIES OF SPIDER FAMILIES	R01AI 01944-11	TMP	27,770
LEVINE, ROBERT P	RECOMBINATION AND MUTATION IN CHLAMYDOMONAS REINHARDI	R01GM 12336-13S2	GEN	140
LEVINE, ROBERT P	RECOMBINATION AND MUTATION IN CHLAMYDOMONAS REINHARDI	R01GM 12336-15	GEN	27,298
LIPSCOMB, WILLIAM N	MOLECULAR STRUCTURES OF BIOLOGICALLY ACTIVE MOLECULES	R01GM 06920-08S1	BBCB	26,496
LIPSCOMB, WILLIAM N	MOLECULAR STRUCTURES OF BIOLOGICALLY ACTIVE MOLECULES	R01GM 06920-09	BBCB	242,418
LYMAN, CHARLES P	TEMPERATURE REGULATION AND WATER METABOLISM	R01GM 11816-04S2	PHY	1,664
RAPER, JOHN R	GENETICS OF TETRAPOLAR INCOMPATIBILITY	R01AI 06124-15	GEN	24,892
SCHULTES, RICHARD E	POISONOUS PLANTS OF THE NEW WORLD TROPICS	R01LM 00071-03	TOX	6,995
STEVENS, S S	PSYCHOPHYSICS AND HEARING	R01NB 02974-07	CMS	41,738
TORREY, JOHN G	CELL DIVISION AND ORGAN INITIATION	R01GM 08145-08	CBY	38,341
WATSON, JAMES D	ROLE OF RIBONUCLEIC ACID IN PROTEIN SYNTHESIS	R01GM 09541-06S1	GEN	40,625
WATSON, JAMES D	ROLE OF RIBONUCLEIC ACID IN PROTEIN SYNTHESIS	R01GM 09541-07	GEN	182,700
WEBER, KLAUS K	STRUCTURE OF ASPARTATE TRANSCARBAMYLASE OF E COLI	R01GM 16132-01	BIO	61,503
WELSH, JOHN H	NEUROHORMONES AND THEIR MODES OF ACTION	R01NB 00623-21	PHY	16,343
WESTHEIMER, FRANK H	MECHANISM OF ENZYME ACTION	R01GM 04712-11S1	PC	14,277
WESTHEIMER, FRANK H	MECHANISM OF ENZYME ACTION	R01GM 04712-12	PC	61,816
WOODWARD, R B	STUDIES IN THE CHEMISTRY OF NATURAL PRODUCTS	R01GM 04229-14	MCHB	158,432
INSTITUTION TOTAL	46	2,684,390		
MASSACHUSETTS INSTITUTE OF TECHNOLOGY				
BAGLIONI, CORRADO	STRUCTURE AND SYNTHESIS OF IMMUNOGLOBULINS	R01AI 08116-01	ALY	73,955
BALTIMORE, DAVID	POLIOVIRUS SYNTHESIS AND TRANSLATION OF VIRAL RNA	R01AI 08388-01	VR	55,554
BIEMANN, KLAUS	MASS SPECTROMETRY FACILITY FOR BIOMEDICAL RESEARCH	P07FR 00317-02	BBCA	132,197
BIEMANN, KLAUS	MASS SPECTROMETRIC METHODS IN PROTEIN CHEMISTRY	R01GM 05472-10	BIO	36,451
BIEMANN, KLAUS	HIGH RESOLUTION MASS SPECTRA OF LABELED COMPOUNDS	R01GM 09352-07	MCHA	29,097
BROWN, GENE M	BIOSYNTHESIS OF B VITAMINS	R01AM 03442-09	BIO	35,983

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INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRG	DOLLARS
MASSACHUSETTS—(CON.)				
BROWN, GENE M	METHYLATION OF NUCLEIC ACIDS	RO1GM 13004-04	BIO	21,014
BROWN, JOEL E	ANATOMY AND PHYSIOLOGY OF VISION	RO1NB 06251-03	VIS	20,760
BROWN, JOEL E	VISUAL RECEPTOR POTENTIALS	RO1NB 07576-01	VIS	23,967
BUCHANAN, JOHN M	NUCLEOTIDE AND NUCLEIC ACID METABOLISM	RO1CA 02015-15	PC	82,039
BUCHI, GEORGE H	THE CHEMISTRY OF NATURAL PRODUCTS	RO1GM 09686-07	MCHB	61,325
CAHN, JOHN W	PRECIPITATION HARDENING OF GOLD-NICKEL ALLOYS	RO1DE 02384-03	DEN	15,111
COTTON, FRANK A	STRUCTURE OF A MICROCOCCAL NUCLEASE	RO1GM 13300-03	BBCB	58,418
CUNNINGHAM, ALASTAIR W	TELENCEPHALIC SPONTANEOUS POTENTIALS IN VITRO	RO1NB 05462-04	NEUA	7,807
DE BRUYN, PHILIP L	KINETICS AND MECHANISM OF HYDROXYAPATITE DISSOLUTION	RO1DE 02769-01	NEU	58,897
DE GROOT, LESLIE J	BIOSYNTHESIS OF THYROID HORMONE	RO1AM 11085-02	END	53,814
DOWBEN, ROBERT M	STUDIES IN NORMAL AND DYSTROPHIC MUSCLE	RO1AM 09715-04	PTHA	43,341
DRYSDALE, JAMES W	INTRACELLULAR DEGRADATION OF LIVER PROTEINS	RO1AM 12660-01	MET	20,664
EDEN, MURRAY	BIOLOGICAL IMAGE PROCESSING	PO1GM 15006-01	GMP	319,193
FLATT, JEAN P	STUDY OF THE HALF-LIFE OF ENZYMES IN ADIPOSE TISSUE	RO1AM 11958-01	MET	67,721
FOX, MAURICE S	GENETIC RECOMBINATION AND BACTERIAL DNA SYNTHESIS	RO1AI 05388-06	PC	54,316
FRENCH, THAYER C	AMINOTRANSFERASE MODELS	RO1AM 11811-01	MCHA	38,657
FRIEDMAN, LEO	SUBLIMINAL PHARMACOLOGY AND CARCINOGENESIS	PO1ES 00183-05	ERT	246,228
GOULD, BERNARD S	BIOSYNTHESIS OF COLLAGEN	RO1AM 01270-12	PC	36,120
GROSS, PAUL R	ULTRASTRUCTURE IN DIVIDING AND DIFFERENTIATING CELLS	RO1GM 13560-04	CBY	49,041
HALL, CECIL E	ELECTRON MICROSCOPY OF MACROMOLECULES AND VIRUSES	RO1CA 02171-17	MBY	34,063
HARDY, HARRIET L	ENVIRONMENTAL LEAD INTOXICATION IN CHILDREN	RO1HD 01584-04	TOX	10,228
HARRIS, ROBERT S	EFFECTS OF MINERAL ELEMENTS IN DIET ON ANIMAL CARIES	RO1DE 01438-06S1	DEN	171
HARRIS, ROBERT S	EFFECTS OF MINERAL ELEMENTS IN DIET ON ANIMAL CARIES	RO1DE 01438-07	DEN	36,644
HEIMER, LENNART	LIGHT-AND E-M STUDIES OF INTERNEURONAL CONNECTIONS	RO1NB 08022-01	NEUB	13,260
HOLM, RICHARD H	STUDIES OF METAL COMPLEXES OF SCHIFF BASES	RO1GM 15471-01	MCHB	27,281
HOUSE, HERBERT O	ENHANCING THE SPECIFICITY OF SYNTHETIC PROCEDURES	RO1CA 10933-01	MCHA	74,164
INGRAM, VERNON M	CHEMICAL STRUCTURE OF TRANSFER RNA	RO1AM 08390-03S1	PC	3,137
INGRAM, VERNON M	CHEMICAL STRUCTURE OF TRANSFER RNA	RO1AM 08390-04	PC	90,742
KEMP, DANIEL S	SYNTHESIS AND REACTIONS OF PEPTIDES	RO1GM 13453-03	MCHB	24,045
KEMP, DANIEL S	SYNTHESIS OF STEGANES AND RELATED COMPOUNDS	RO1GM 15944-01	MCHB	16,992
LETTVIN, JEROME Y	VISUAL CODING IN THE OPTIC NERVE	RO1NB 07501-01	VIS	31,979
LEVINTHAL, CYRUS	CELLULAR GROWTH AND HEREDITY ON A MOLECULAR LEVEL	RO1AI 02028-12	BIO	79,618
LION, KURT S	DEVELOPMENT OF MOLECULAR TRANSDUCERS	RO1GM 12084-04	ESEB	43,310
LORD, RICHARD C	SPECTROSCOPIC STUDIES OF BIOMOLECULAR ASSOCIATION	RO1GM 15310-01	BBCB	45,566
LURIA, SALVADOR E	GROWTH, STRUCTURE AND GENETIC FUNCTIONS OF VIRUSES	RO1AI 03038-09	GEN	57,190
MAGASANIK, BORIS	BIOSYNTHESIS AND INTERCONVERSION OF PURINE NUCLEOTIDE	RO1CA 05210-09	BIO	29,211
MAGASANIK, BORIS	METABOLISM AND BIOLOGICAL FUNCTION OF INOSITOL	RO1CA 07446-09	PC	32,146
MASON, SAMUEL J	BIO-ENGINEERING COMMUNICATION SCIENCES	PO1GM 14940-02	GMP	678,399
MATELES, RICHARD I	TOXIC METABOLITES OF ASPERGILLUS FLAVUS	RO1ES 00279-04	MBG	34,803
MC CULLOCH, WARREN S	REDUNDANCY OF POTENTIAL COMMAND	RO1NB 04985-05	NEUA	16,864
MERRILL, EDWARD W	NON-DENATURING MEMBRANE OXYGENATORS FOR BLOOD	RO1HE 08598-05	HEM	79,114
MUNRO, HAMISH N	PROTEIN SYNTHESIS IN NORMAL AND MALIGNANT CELLS	RO1CA 08893-02	CBY	47,058
NAUTA, WALLE J	FOREBRAIN ORGANIZATION AND ANATOMICAL PLASTICITY	RO1NB 06542-02S1	NEUA	23,843
NAUTA, WALLE J	FOREBRAIN ORGANIZATION AND ANATOMICAL PLASTICITY	RO1NB 06542-03	NEUA	84,931
NAVIA, JUAN M	NUTRITION IN RELATION TO ORAL BIOLOGY AND PATHOLOGY	PO1DE 02714-01	DEP	102,669
NEWBERNE, PAUL M	CIRRHOSIS AND LIVER TUMOR INDUCTION	RO1GM 08870-02	PTHB	47,786
NEWBERNE, PAUL M	COPPER & CHOLINE DEFICIENCY IN CARDIOVASCULAR DISEASE	RO1HE 10112-03	NTN	35,525
PENMAN, SHELDON	NORMAL AND VIRAL RNA AND LIPOPROTEINS IN ANIMAL CELLS	RO1CA 08416-03	VR	92,701
POMERANZ, BRUCE H	SPINAL COMPONENTS OF RENAL SYMPATHETIC NERVOUS SYSTEM	RO1NB 07568-01	NEUB	31,699
RICH, ALEXANDER	THE MOLECULAR STRUCTURE OF NUCLEIC ACIDS AND PROTEINS	RO1CA 04186-10	BBCA	68,509
ROBBINS, PHILLIPS W	VIROLOGICAL-INDUCED CHANGES IN THE ANIMAL CELL SURFACE	RO1AM 06803-06	VR	62,811
ROGERS, ADRIANNE E	AFLATOXIN EFFECTS ON LIVER REGENERATION	RO1AM 11158-02	PTHB	25,052
SALTZSTEIN, HERBERT D	SOCIAL INFLUENCE ON CHILDRENS STANDARDS	RO1HD 01786-02	EXP	19,558
SCHILLER, PETER H	SPATIAL AND TEMPORAL INTERACTION IN VISUAL PERCEPTION	RO1NB 07456-02	EXP	27,859
SCHIMMEL, PAUL R	INVESTIGATIONS OF REACTIONS OF PHYSIOLOGICAL IMPORTANCE	RO1GM 15539-01	BBCA	49,747
SCHMITT, FRANCIS O	NEUROSCIENCES RESEARCH PROGRAM	RO1GM 10211-06	SSS	383,024
SCHMITT, FRANCIS O	INTENSIVE STUDY PROGRAM-NEUROSCIENCES RESEARCH PROGRAM	RO1GM 12568-03	SSS	3,000
SCHMITT, FRANCIS O	MOLECULAR INVESTIGATIONS OF NERVE AND OTHER TISSUES	RO1NB 00024-19	BBCA	167,213
SCRIMSHAW, NEVIN	EFFECT OF STRESS ON THE NUTRIENT REQUIREMENTS OF MAN	RO1AM 06274-07	NTN	80,026
SCRIMSHAW, NEVIN S	GENERAL CLINICAL RESEARCH CENTER	MO1FR 00088-05	CLR	198,204
SEYFERTH, DIETMAR	ORGANOFUNCTIONAL PHOSPHINE OXIDES	RO1CA 08278-03	MCHB	28,356
SHEEHAN, JOHN C	SYNTHESIS, REACTIONS, AND STEREOCHEMISTRY OF PEPTIDES	RO1CA 02239-14	BIO	56,943
SIGNER, ETHAN R	STUDIES ON LYSOGENY AND OPERON EXPRESSION	RO1GM 14426-02	GEN	80,685
STANBURY, JOHN B	ENZYMATIC MECHANISMS OF THE THYROID GLAND	RO1AM 10992-03	END	59,180
STANBURY, JOHN B	GOITER MENTAL RETARDATION DEAFMUTISM AND GROWTH	RO1AM 12748-01	END	13,913
STEINER, LISA A	VARIATIONS IN ANTIBODY AFFINITY	RO1AI 08054-01	ALY	34,305
STEVENS, KENNETH N	PHYSIOLOGICAL AND ACOUSTICAL STUDIES OF SPEECH	RO1NB 04332-06	CMS	103,195
SWAIN, C GARDNER	THE ROLE OF WATER IN ORGANIC REACTIONS	RO1GM 03711-15	MCHA	25,414
TAUB, ARTHUR	CONTROL OF SPINAL SENSORY MECHANISMS, PAIN	RO1NB 06466-03	NEUB	12,031
TORRIANI-GORINI, ANNAMARIA	SEQUENTIAL CHANGES IN THE EXPRESSION OF GENOMES	RO1GM 09320-07	BIO	27,790
TRUMP, JOHN G	OXYGEN EFFECTS ON SKIN TUMORS UNDER ELECTRON THERAPY	RO1CA 08412-02S1	RAD	2,255
WANG, DANIEL I	MECHANISM OF MICROBIAL TRANSPORT THROUGH PAPER MATERIALS	RO1AI 07638-01A1	TOX	20,695
WAUGH, DAVID F	PROTEIN INTERACTIONS AND PHYSICO-CHEMICAL PROPERTIES	RO1GM 05410-11	BBC	68,374

TABLE 2—RESEARCH GRANTS, BY AREA, INSTITUTION, AND PRINCIPAL INVESTIGATOR

INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRG	DOLLARS
MASSACHUSETTS—(CON.)				
WIESNER, JEROME B	BIOMEDICAL SCIENCES SUPPORT	S05FR 07047-03	NSS	163,959
WOLF, GEORGE	METABOLISM OF AMINO ACIDS LABELED WITH CARBON C14	R01AM 06346-07	MET	40,088
WOLF, GEORGE	THE INFLUENCE OF VITAMIN A ON STEROID BIOSYNTHESIS	R01AM 08732-07	NTN	31,959
WOLF, GEORGE	THE BIOCHEMICAL FUNCTION OF VITAMIN A	R13AM 12351-01	NTN	12,104
WURTMAN, RICHARD J	ENDOCRINE CONTROL OF THE METABOLISM OF NEUROHORMONS	R01AM 11237-02	GMB	41,878
WURTMAN, RICHARD J	SYMPATHETIC NERVOUS SYSTEM AND NEUROENDOCRINE RHYTHMS	R01AM 11709-02	GMB	35,540
YANKOFSKY, SAUL A	HERETOGENEITY IN NON-TRANSLATABLE BACTERIAL RNA	R01GM 13842-03	PC	28,198
YANNAS, IOANNIS V	PHYSICAL STUDY OF NOVEL COLLAGENOUS STATES	R01AM 11919-01	BBCB	29,443
INSTITUTION TOTAL	87	5,568,117		
SCIENCE RESOURCES FOUNDATION				
EICHEL, BERTRAM	ORAL LEUCOCYTE METABOLISM IN HEALTH AND DISEASE	R01DH 00103-03	OEN	37,195
INSTITUTION TOTAL	1	37,195		
CHELMSFORD				
MEDICAL ASSOCIATES				
COLE, RALPH E	COOPERATIVE STUDY OF DRUGS AND CORONARY HEART DISEASE	R01HE 11373-02	SRC	39,106
INSTITUTION TOTAL	1	39,106		
FRAMINGHAM				
FRAMINGHAM UNION HOSPITAL				
SHERMAN, JOSEPH D	THE THYMIC BARRIER AND IMMUNITY	R01AM 08014-05	IMB	32,637
TEDESCHI, CESARE G	THYMUS LYMPHOID TISSUE AND ADIPOSE TISSUE	R01AM 09121-03S1	PTHB	2,540
INSTITUTION TOTAL	2	35,177		
MEDFORD				
TUFTS UNIVERSITY				
FUNG, B M	N-14 MAGNETIC RESONANCE OF AMINO ACIDS AND PEPTIDES	R01AM 11989-01	BBCB	26,382
HILL, PERCY H	BIODENTAL ENGINEERING RESEARCH	R01DH 00035-03	HSR	83,814
MC LAUGHLIN, SAMUEL C	VISUAL AND AUDITORY FEEDBACK IN AMBLYOPIA EX ANOPIA	R01NB 06715-02	VIS	14,274
ROEDER, KENNETH D	NEUROPHYSIOLOGY AND BEHAVIOR OF INSECTS	R01AI 00947-12	TMP	25,776
TWAROG, BETTY M	CATCH AND THE MECHANISM OF ACTION OF SEROTONIN	R01AM 11996-01	PHY	33,303
INSTITUTION TOTAL	5	183,549		
MELROSE				
MELROSE-WAKEFIELD HOSPITAL				
LEVINE, SIDNEY A	COOPERATIVE STUDY OF DRUGS AND CORONARY HEART DISEASE	R01HE 11654-02	SRC	95,693
INSTITUTION TOTAL	1	95,693		
NEWTON				
NEWTON-WELLESLEY HOSPITAL				
PAGE, LOT B	QUANTITATIVE IMMUNOASSAY OF ANGIOTENSIN	R01HE 11015-03	ALY	57,008
INSTITUTION TOTAL	1	57,008		
NORTHAMPTON				
SMITH COLLEGE				
DE VILLAFRANCA, GEORGE W	BIOCHEMISTRY AND LOCALIZATION OF MUSCLE PROTEINS	R01AM 02647-12	BBCB	12,435
DE VILLAFRANCA, GEORGE W	EMBRYONIC ALTERATIONS IN PRE-DYSTROPHIC MUSCLE	R01NB 06388-03	CBY	9,110
INSTITUTION TOTAL	2	21,545		
NORTON				
WHEATON COLLEGE				
JENNINGS, BOJAN H	PHOTOCHEMISTRY OF BIOLOGICALLY IMPORTANT BASES	R01CA 10201-02	BBCB	30,396
INSTITUTION TOTAL	1	30,396		
SHREWSBURY				
WORCESTER FOUNDATION FOR EXPERIMENTAL BIOLOGY				
BRODIE, HARRY J	STEREOCHEMISTRY OF ENZYMIC STEROID REACTIONS	R01AM 06894-05	PC	45,120
BRUNKHORST, WILLA K	INTRACELLULAR BINDING OF CORTISOL IN THYMUS TISSUE	R01AM 12592-01	END	16,778
BURSTEIN, SHLOMO	STEROID METABOLISM IN THE GUINEA PIG AND MAN	R01AM 09616-03	END	26,620
BURSTEIN, SHLOMO	POLAR CORTICOIDS IN THE GUINEA PIG AND CANCER	R01CA 05466-08	PHRB	34,320
CASPI, ELIAHU	USE OF 4R-4T & 4R-4D MEVALONATE IN BIOSYNTHETIC STUDIES	R01AM 12156-01	MCHA	16,591
CASPI, ELIAHU	BIOSYNTHESIS OF STEROLS IN DIGITALIS PLANTS	R01HE 10566-03	MCHA	25,018
CHANG, M C	IONIZING RADIATION ON MAMMALIAN SPERM AND EGGS	R01GM 14370-02	RAD	32,258
CHANG, M C	PHYSIOLOGY OF THE FEMALE TRACT	R01HD 03003-08	REB	46,101
CHANG, M C	PHYSIOLOGY OF MAMMALIAN FERTILIZATION	R01HD 03472-06	REB	25,362
CORTES, JULIO M	EXTRACTION OF STEROID COMPLEXES FROM TISSUES	R01AM 09295-04	END	29,614
GUT, MARCEL	SYNTHESIS OF LABELED ADRENAL HORMONES	R01AM 03419-09	MCHA	51,523
GUT, MARCEL	STUDIES WITH LABELED STEROIDS	R01AM 07280-05	END	14,601
HALKERSTON, IAN D	MECHANISMS OF ACTH ACTION	R01AM 09045-03S1	END	11,676
HALKERSTON, IAN D	ESTROGEN ACTION IN RAT UTERUS	R01HD 03203-01A1	REB	44,540
HARPER, MICHAEL J	NEUROHUMORAL CONTROL OF OVIDUCT FUNCTION	R01HD 02597-02	REB	28,489
HELE, PRISCILLA	REGULATION MECHANISMS IN AMINO ACID ACTIVATION SYSTEMS	R01GM 12969-03	BIO	47,454
HOAGLAND, HUDSON	GENERAL RESEARCH SUPPORT GRANT	S01FR 05528-06	NSS	291,962

TABLE 2—RESEARCH GRANTS, BY AREA, INSTITUTION, AND PRINCIPAL INVESTIGATOR

INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRG	DOLLARS
MASSACHUSETTS—(CON.)				
LLOYD, CHARLES W	STUDIES OF THE TESTOSTERONE STERILIZED RAT	RO1AM 08184-05	GMB	60,174
LLOYD, CHARLES W	PLASMA ANDROGENS IN MOTHER AND FETUS	RO1HD 03206-01	END	13,833
PERON, FERNAND G	ACTION OF ADRENOCORTICOTROPIN	RO1AM 04899-08	END	39,630
RAMWELL, PETER W	EPINEPHRINE EVOKED RELEASE OF PROSTAGLANDINS	RO1NB 06444-03	NEUA	56,646
ROMANOFF, ELIJAH B	REGULATION OF OVARIAN FUNCTION LUTEOTROPIC PROCESS	RO1HD 02637-01A1	REB	42,835
SKARNES, ROBERT C	NON-IMMUNE MECHANISMS OF ANTIBACTERIAL DEFENSE	RO1AI 08374-01	ALY	35,935
STONE, DAVID	SPECIFICITY OF ACTION OF NUCLEIC ACIDS	RO1GM 06035-09S1	PC	2,928
TAIT, JAMES F	STEROID DYNAMICS IN VIVO AND IN VITRO	RO1AM 03179-10	END	118,373
TAIT, JAMES F	STEROID METABOLISM IN HEALTH AND DISEASE	RO1AM 06294-07	END	144,000
TAIT, JAMES F	DYNAMIC METABOLISM AND SECRETION OF ESTROGENS	RO1AM 11252-02	END	21,480
TAIT, SYLVIA A	IN VIVO AND IN VITRO BIOSYNTHESIS OF ADRENAL STEROIDS	RO1AM 05300-07	END	27,129
WILLIAMS, KENNETH I	STEROID CONJUGATION WITH N-ACETYLGLUCOSAMINE	RO1AM 10216-03	END	23,329
YOSHINAGA, KOJI	EFFECTS OF STEROIDS AND OTHER AGENTS ON EMBRYO GROWTH	RO1HD 01785-03	REB	32,691
INSTITUTION TOTAL	30 1,407,010			
SOUTH HADLEY				
MOUNT HOLYOKE COLLEGE				
SMITH, CHRISTIANNA	HISTOCHEMISTRY NORMAL AND IRRADIATED MOUSE THYMUSES	RO1CA 01558-17	RAD	15,522
STEIN, KATHRYN F	LP AND ASSOCIATED MUTATIONS	RO1NB 00684-14	GEN	12,360
WILLIAMSON, KENNETH L	CONFORMATIONAL ANALYSIS BY N M R	RO1GM 10224-06	MCHA	11,772
INSTITUTION TOTAL	3 39,654			
SPRINGFIELD				
SPRINGFIELD COLLEGE				
KARPOVICH, PETER V	ELECTROGONIOMETRIC STUDY OF MOVEMENTS	RO1AM 06724-06	AFY	28,696
INSTITUTION TOTAL	1 28,696			
STOW				
RED ACRE FARM				
ZUCKER, LOIS M	RAT MODELS FOR THE STUDY OF OBESITY AND GROWTH	P06FR 00427-01	AR	25,630
ZUCKER, LOIS M	HEREDITARY OBESITY AND HYPERLIPIDEMIA IN THE RAT	RO1AM 08272-05	NTN	33,824
INSTITUTION TOTAL	2 59,454			
WALTHAM				
BRANDEIS UNIVERSITY				
ABELES, ROBERT H	MECHANISM OF ENZYME ACTION	RO1GM 12633-05	PC	43,713
ALLISON, WILLIAM S	FUNCTIONAL GROUPS OF TRIOSEPHOSPHATE DEHYDROGENASE	RO1GM 14481-02	BIO	18,833
COHEN, SAUL G	STEROSPECIFICITY OF HYDROLYTIC ENZYMES	RO1GM 04584-12	BIO	34,050
DIAMANDOPOULOS, PETER	BIOMEDICAL SCIENCES SUPPORT	S05FR 07044-03	NSS	86,781
EPSTEIN, HERMAN T	FACTORS AFFECTING CHLOROPLAST DEVELOPMENT IN EUGLENA	RO1GM 06344-09	CBY	25,027
FASMAN, GERALD D	SYNTHETIC POLYAMINO ACIDS AS PROTEIN MODELS	RO1AM 05852-07	BBC	42,280
FREIFELDER, DAVID M	PHYSICO-CHEMICAL AND GENETIC STUDIES OF DNA FUNCTION	RO1GM 14358-02	MBC	27,984
GIBBS, MARTIN	DEVELOPMENT OF ULTRASTRUCTURE	RO1GM 10103-05S1	MBY	1,444
GIBBS, MARTIN	DEVELOPMENT OF ULTRASTRUCTURE	RO1GM 10103-06	MBY	3,377
GILLESPIE, DAVID H	GENE EXPRESSION - A STUDY OF TRANSLATABLE RNA	RO1GM 14368-02	GEN	34,100
GROSSMAN, LAWRENCE	UV EFFECTS ON STRUCTURE AND FUNCTION OF NUCLEIC ACIDS	RO1GM 15881-08	PC	43,740
HAKOMORI, SEN-ITIROH	IMMUNOSPECIFIC GLYCOLIPIDS OF NORMAL AND CANCER CELLS	RO1CA 10353-01	ALY	12,205
HENDRICKSON, JAMES B	TOTAL SYNTHESIS OF AMARYLLIDACEAE ALKALOIDS	RO1CA 10739-05	MCHA	30,580
HENDRICKSON, JAMES B	STEREOCHEMISTRY AND SYNTHESIS OF SESQUITERPENES	RO1GM 10714-06	MCHA	32,747
HENDRICKSON, JAMES B	SYNTHESIS OF DEPSIDONES	RO1GM 13929-03	MCHA	16,860
JENCKS, WILLIAM P	CHEMISTRY AND BIOCHEMISTRY OF ENERGY TRANSFER	RO1HD 01247-11	PC	18,076
KAPLAN, NATHAN O	STUDIES ON COENZYME AND NUCLEIC ACID METABOLISM	RO1CA 03611-11	BIO	57,264
KAPLAN, NATHAN O	NORMAL AND ABNORMAL DIFFERENTIATION	RO1HD 01246-10	PC	29,706
KUSTIN, KENNETH	CHEMICAL KINETICS STUDIED BY RELAXATION SPECTROMETRY	RO1GM 08893-07	BBCB	32,040
LEEMAN, SUSAN E	PURIFICATION AND FUNCTION OF HYPOTHALAMIC POLYPEPTIDES	RO1AM 12470-01	END	23,501
LEVINE, LAWRENCE	IMMUNOCHEMICAL APPROACHES TO MOLECULAR BIOLOGY PROBLEMS	RO1AI 01940-11	ALY	47,072
LOWENSTEIN, JOHN M	ENZYMATIC & CHEMICAL REACTIONS OF ADENOSINE TRIPHOSPHATE	RO1GM 07261-08	PC	28,920
MURAKAMI, WILLIAM T	VIRUS INDUCED NEOPLASTIC CONVERSIONS	RO1CA 06654-06	VR	38,824
ROSENBLUM, MYRON	THE CHEMISTRY OF FERROCENE	RO1GM 05978-09S1	MCHB	305
ROSENBLUM, MYRON	THE CHEMISTRY OF FERROCENE	RO1GM 05978-10	MCHB	26,580
SATO, GORDON H	DIFFERENTIATED PROPERTIES OF ANIMAL CELL CULTURES	RO1CA 04123-10	MBY	59,539
SCHIFF, JEROME A	STUDIES OF CHLOROPLAST CONTINUITY IN EUGLENA	RO1GM 14595-02	CBY	29,922
SODAK, MORRIS	PHARMACOLOGY AND BIOCHEMISTRY OF THYROID	RO1AM 03274-10	PHRA	41,767
STEPHENS, RAYMOND E	THE FORMATION AND FUNCTION OF THE MITOTIC APPARATUS	RO1GM 15500-01	CBY	28,148
STEVENSON, ROBERT	REARRANGEMENTS IN TERPENOID AND STEROID FIELDS	RO1AM 03439-09	MCHA	25,310
SZENT-GYORGYI, ANDREW G	THE PROTEINS, CONTRACTION AND MORPHOGENESIS OF MUSCLE	RO1GM 14675-03	BBCB	66,554
TIMASHEFF, SERGE N	STRUCTURE AND INTERACTIONS OF PROTEINS IN SOLUTION	RO1GM 14603-02	BBCB	50,361
VAN VUNAKIS, HELEN	BIOCHEMISTRY OF VIRUSES AND VIRUS INFECTED CELLS	RO1AI 02792-10	VR	29,145
ZWILLING, EDGAR	DEVELOPMENT OF CHICK EMBRYO CELLS AND TISSUES	RO1HD 03465-10	CBY	33,158
INSTITUTION TOTAL	34 1,119,913			

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INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRG	DOLLARS
MASSACHUSETTS—(CON.)				
WELLESLEY				
WELLESLEY COLLEGE				
GULICK, EDWARD V	BIOGRAPHY OF DR PETER PARKER	R01LM 00073-02	HLS	683
PADYKULA, HELEN A	CYTOLOGICAL INVESTIGATIONS OF MAMMALIAN DIFFERENTIATION	R01HD 01026-04	CBY	67,545
INSTITUTION TOTAL	2 68,228			
WILLIAMSTOWN				
WILLIAMS COLLEGE				
DE WITT, WILLIAM	GENETIC CONTROL AND EVOLUTION OF ANTIBIOTIC PROTEINS	R01AI 08247-01	MBC	13,244
DE WITT, WILLIAM	HEMOGLOBIN SYNTHESIS DURING AMPHIBIAN METAMORPHOSIS	R01AM 12598-01	HEM	15,353
GRANT, WILLIAM C, JR	ENDOCRINOLOGY OF SECOND METAMORPHOSIS	R01HD 01164-11	END	10,170
MC GILL, THOMAS E	THE GENETICS AND PHYSIOLOGY OF BEHAVIORAL DIFFERENCES	R01GM 07495-07A1	EXP	20,669
INSTITUTION TOTAL	4 59,436			
WOODS HOLE				
MARINE BIOLOGICAL LABORATORY				
ARMSTRONG, PHILIP B	BEHAVIOR IN EMBRYOS AS IT RELATES TO ENCEPHALIZATION	R01NB 06668-02	CBY	5,879
BARTH, LESTER G	CELLULAR DIFFERENTIATION	R01HD 00701-05	CBY	36,831
BAYLOR, MARTHA B	CHEMICAL MORPHOGENESIS OF THE BACTERIOPHAGE	R01AI 05807-05	GEN	53,125
CARRIKER, MELBOURNE R	DEMINEALIZATION-BORING MECHANISMS OF MOLLUSKS	R01DE 01870-06	DEN	21,131
KAMINER, BENJAMIN	FILAMENTS, MORPHOGENESIS, AND CONTRACTION OF MUSCLE	R01NB 07269-01S1	MBY	5,212
KAMINER, BENJAMIN	FILAMENTS, MORPHOGENESIS, AND CONTRACTION OF MUSCLE	R01NB 07269-02	MBY	37,245
STEINBACH, H BURR	GENERAL RESEARCH SUPPORT GRANT	S01FR 05547-06	NSS	57,733
SZENT-GYORGYI, ALBERT	BIOENERGETICS, CHEMISTRY OF MUSCLE AND THE THYMUS	P01GM 10383-06	GMP	165,997
INSTITUTION TOTAL	8 383,153			
WOODS HOLE OCEANOGRAPHIC INSTITUTE				
CAREY, FRANCIS G	PHYSIOLOGY OF TEMPERATURE REGULATION	R01GM 15480-01	PHY	29,354
WATSON, STANLEY W	NITRIFICATION BY MARINE MICROORGANISMS	R01GM 11214-05	CB	54,505
INSTITUTION TOTAL	2 83,859			
WORCESTER				
CLARK UNIVERSITY				
ERICKSON, KAREN L	BIOSYNTHESIS OF INDOLE ALKALOIDS	R01GM 14132-03	MCHA	14,467
GOODGLASS, HAROLD	NEW MEASURES OF APHASIC SYMPTOM VARIABLES	R01NB 07615-08	NEUA	21,726
JACOBS, HARRY L	PUBLICATION OF STEREOTAXIC BRAIN ATLAS	R01LM 00562-01	BCM	24,244
LEE, DWIGHT E	BIOMEDICAL SCIENCES SUPPORT	S05FR 07045-03	NSS	52,600
MOULTON, DAVID G	STUDIES IN THE PHYSIOLOGY OF OLFACTION	R01NB 06860-02	CMS	34,802
NUNNEMACHER, RUDOLPH F	A COMPARATIVE STUDY OF NERVE ULTRASTRUCTURE	R01NB 03989-05S3	NEUA	18,960
NUNNEMACHER, RUDOLPH F	A COMPARATIVE STUDY OF NERVE ULTRASTRUCTURE	R01NB 03989-06A1	NEUA	28,643
STUBBE, JOHN S	CLARK UNIVERSITY COMPUTER CENTER	P07FR 00135-05	COM	32,973
TRACHTENBERG, EDWARD N	MECHANISM OF 1,3-DIPOLAR ADDITIONS	R01GM 13105-03	MCHB	17,464
WEN, WEN-YANG	TETRAALKYLAMMONIUM SALTS AND HYDROPHOBIC BONDS	R01GM 11684-05	BBCA	17,767
INSTITUTION TOTAL	10 263,646			
COLLEGE OF THE HOLY CROSS				
DELANEY, PATRICK F, JR	METABOLISM IN MITOCHONDRIA	R01AM 09186-04	MET	9,254
LINGAPPA, BANADAKOPPA T	STUDIES ON INHIBITORY AUTOBIOTICS OF CANDIDA ALBICANS	R01AI 07121-02	BM	28,942
MCMASTER, PAUL D	ISOLATION AND CHARACTERIZATION OF RAGWEED ALLERGENS	R01AI 07009-03	ALY	8,000
INSTITUTION TOTAL	3 46,196			
MEDICAL RESEARCH INSTITUTE OF WORCESTER				
ROSEMBERG, EUGENIA	CHARACTERIZATION OF HUMAN PITUITARY GONADOTROPIN	R01AM 07564-06	END	100,073
INSTITUTION TOTAL	1 100,073			
MEMORIAL HOSPITAL				
ROBINSON, ROGER W	CORONARY ATHEROSCLEROSIS IN WOMEN	R01HE 02658-11S1	CVB	6,300
INSTITUTION TOTAL	1 6,300			
ST. VINCENT HOSPITAL				
LAURENZI, GUSTAVE A	THE MECHANISMS OF PULMONARY DEFENSE AGAINST INFECTION	R01AI 08963-01	BM	50,672
LEE, JAMES B	RELATIONS OF SALT EXCRETION TO RENAL METABOLISM	R01AM 06631-06	PHY	17,934
STREETO, JAMES M	ENZYMATIC REGULATION OF SALT AND WATER HOMEOSTASIS	R01AM 11762-01	GMB	28,290
INSTITUTION TOTAL	3 96,896			
WORCESTER POLYTECHNIC INSTITUTE				
FELDMAN, CHARLES L	COMPUTER FILTERING OF ELECTROCARDIOGRAMS	R01HE 10844-02	COM	15,160
GRANATH, LOUIS P	DRUGS AND BIELECTRIC ACTIVITY	R01NB 06659-03	SSS	40,008
INSTITUTION TOTAL	2 55,168			
WRENTHAM				
MASSACHUSETTS ST DEPT OF MH--WRENTHAM STATE SCHOOL				
KUN, KAROLY J	ADAPTIVE BEHAVIOR AND EEG IN MENTAL RETARDATES	R01HD 01798-03	PPR	24,375
INSTITUTION TOTAL	1 24,375			

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INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRG	DOLLARS
MASSACHUSETTS—(CON.)				
STATE TOTAL	1,007	58,285,300		
MICHIGAN				
ADRIAN				
SIENA HEIGHTS COLLEGE				
HITZEMAN, JEAN W	PATHWAYS OF METABOLISM IN THE LEYDIG CELLS	RO1GM 10484-05	MET	4,288
INSTITUTION TOTAL	1	4,288		
ANN ARBOR				
MICHIGAN UNIVERSITY OF				
ABBRECHT, PETER H	NEPHRON PERMEABILITIES IN POTASSIUM DEPLETION	RO1AM 10395-03	PHY	15,170
ABRAMS, GERALD D	INFLUENCE OF THE NORMAL FLORA ON REACTION TO INJURY	RO1AI 05827-05	BM	18,288
ACKERMAN, DONALD R	THE BIOCHEMISTRY OF SUPERCOOLED AND FROZEN HUMAN SEMEN	RO1HD 02592-02	REB	36,858
AGRANOFF, BERNARD W	PHOSPHOLIPIDS OF THE NERVOUS SYSTEM	RO1NB 03101-08	PC	34,664
ALLEN, SALLY L	GENETICS OF TETRAHYMENA	RO1GM 15879-11	GEN	39,746
ALPERN, MATHEW	PSYCHOPHYSIOLOGICAL STUDIES OF OCULAR ABNORMALITIES	RO1NB 01578-10	VIS	40,500
AMINOFF, DAVID	BIOSYNTHESIS OF THE HUMAN BLOOD GROUP SUBSTANCES	RO1AM 07305-06	HEM	32,981
ASGAR, KAMAL	REACTION BETWEEN CAST CHROMIUM-COBALT ALLOYS AND MOLD	RO1DE 02017-05	DEN	20,598
ASGAR, KAMAL	DETECTION OF TEMP VARIATION IN ORAL CAVITY USING INFRAR	RO1DE 02654-01	DEN	26,159
ASH, MAJOR M	MASTICATORY FORCES AND MUSCLE FUNCTIONS	RO1DE 01962-05	DEN	38,812
ASH, MAJOR M	INTRAORAL PH MONITORING BY TELEMETRY	RO1DE 02318-04	DEN	18,776
AVERY, JAMES K	NERVE CONDUCTION IN HUMAN TEETH	RO1DE 01604-07	NEUB	31,407
AVERY, JAMES K	ELECTRON MICROSCOPE STUDIES OF COLLAGEN IN TEETH	RO1DE 01620-07	DEN	55,751
AVERY, JAMES K	TISSUE INTERACTION IN DENTAL DEVELOPMENT	RO1DE 02774-01	DEN	23,737
BAER, MELVYN J	EXPERIMENTAL INVESTIGATION OF CRANIOFACIAL GROWTH	RO1HD 03489-01	DEN	29,009
BAER, MELVYN J	POST-NATAL GROWTH OF THE RAT SKULL	RO1LM 00616-01	BCM	18,120
BAKER, BURTON L	HYPOPHYSEAL RESPONSE TO ESTROGENS AND PROGESTINS	RO1HD 03159-01A1	REB	40,061
BARDACH, JOHN E	CHEMICAL SENSES	RO1NB 04687-06	PHY	41,452
BARTHOLOMEW, LEE E	THE RELATIONSHIP OF PPLO TO RHEUMATIC DISEASES	RO1AI 06729-03S1	BMA	12,876
BARTO, ELIZABETH	INHERITED NERVOUS DISORDERS	RO1NB 03095-08	GEN	26,588
BEAN, JOHN W	NEURO-ENDOCRINE AND VASCULAR FACTORS IN O2 TOXICITY	RO1HE 01646-18	PHY	14,359
BECK, LLOYD	NEUROGENIC CONTROL OF BLOOD VESSELS	RO1HE 11536-01	CVA	43,053
BEIERWALTES, WILLIAM H	RADIOISOTOPE LABELED COMPOUNDS IN MALIGNANT MELANOMA	RO1CA 08429-02S1	RAD	14,425
BEIERWALTES, WILLIAM H	HASHIMOTO S STRUMA AND CONGENITAL HYPOTHYROIDISM	RO1HD 00688-11	ENO	33,451
BERNSTEIN, I A	PROTEIN SYNTHESIS IN EPIDERMAL KERATINIZATION	RO1AM 10225-02	PC	22,695
BEYER, ROBERT E	REGULATION OF MITOCHONDRIAL METABOLISM	RO1AM 10056-02S1	BIO	4,492
BEYER, ROBERT E	REGULATION OF MITOCHONDRIAL METABOLISM	RO1AM 10056-03	BIO	33,278
BOHR, DAVID F	CONTRACTION OF VASCULAR SMOOTH MUSCLE	RO1HE 03756-10S1	CVA	15,777
BOHR, DAVID F	CONTRACTION OF VASCULAR SMOOTH MUSCLE	RO1HE 03756-11	CVA	37,376
BOHR, DAVID F	CORONARY BLOOD FLOW IN ATHEROSCLEROSIS	RO1HE 09874-02	CVA	30,187
BREWER, GEORGE J	ENZYMES AND ATP CONTENT OF THE HUMAN RBC	RO1AM 09381-04	HEM	57,364
BURCH, J B	CYTOLOGICAL/IMMUNOLOGICAL STUDIES OF SCHISTOSOME VECTOR	RO1AI 07279-03	TMP	23,775
BURCH, J B	CULTURE METHODS FOR MOLLUSK CELLS AND TISSUES	R22AI 07364-03	SSS	47,703
BURCKHALTER, JOSEPH H	FLUORESCENT ANTIBODY LABELING AGENTS	RO1AI 05817-04S1	MCHA	706
BURCKHALTER, JOSEPH H	FLUORESCENT ANTIBODY LABELING AGENTS	RO1AI 05817-05	MCHA	22,748
BURKEL, WILLIAM E	PERINEURIUM, FINE STRUCTURE AND FUNCTIONAL RELATIONS	RO1NB 07473-01	NEUB	17,862
BURKS, ARTHUR W	A THEORY OF ADAPTIVE SYSTEMS BASED ON AUTOMATA THEORY	RO1GM 12236-04	SSS	91,565
BUTTER, IRENE H	INTERNATIONAL BRAIN DRAIN OF PHYSICIANS	RO1PM 00008-02	HSR	42,149
CARR, EDWARD A, JR	RESEARCH PROGRAM IN CLINICAL PHARMACOLOGY	P11GM 15559-02	PTR	138,378
CASEY, KENNETH L	NEURAL MECHANISMS IN PAIN SENSATION	RO1NB 06588-03	NEUA	24,615
CASTOR, C WILLIAM	CONNECTIVE TISSUE FUNCTION IN RHEUMATIC DISEASE	RO1AM 10728-02	PTHB	59,458
CHILD, CHARLES G, 3RD	ETIOLOGY OF PORTAL HYPERTENSION	RO1HE 04260-10	SGYA	122,253
CHRISTENSEN, HALVOR N	STRUCTURES AND CATALYTIC FUNCTIONS OF PROTEINS	RO1AM 12734-01	PC	100,000
CHRISTENSEN, HALVOR N	SITES AND REACTANTS IN AMINO ACID TRANSPORT	RO1HD 01233-13	PC	59,896
CLAYTON, JOSEPH A	FUNCTIONAL FORCES AND WIDTH OF OCCLUSAL TABLE	RO1DE 02765-01	DEN	23,108
COHEN, BENNETT J	A UNIVERSITY RESOURCE IN LABORATORY ANIMAL MEDICINE	PO6FR 00200-04	SSS	70,056
CONN, JEROME W	PREDICTION AND LONG-TERM STUDY OF FUTURE DIABETES	RO1AM 00888-13	GM	51,536
CONN, JEROME W	NORMOKALEMIC PRIMARY ALDOSTERONISM	RO1AM 10257-02	GMB	95,286
CONWAY, JAMES F	REGULATING MECHANISMS IN THE CARDIOVASCULAR SYSTEM	RO1HE 07764-06	PHY	17,516
COON, MINOR J	STUDIES ON PYRUVATE KINASE AND RELATED ENZYMES	RO1AM 10339-03	PC	39,408
CORNISH, HERBERT H	ISOZYMES IN TOXICOLOGY	RO1GM 12854-04	TOX	38,979
CORNISH, HERBERT H	TOXICITY AND METABOLISM OF DI- AND TRIPHENYLMETHANES	RO1GM 15269-08	TOX	27,867
COUNSELL, RAYMOND E	RADIODIAGNOSTICS SUITABLE FOR ADRENAL PHOTOSCANNING	RO1CA 08349-03	MCHA	26,148
COUNSELL, RAYMOND E	FALSE ALLOSTERIC EFFECTORS AS CARDIOVASCULAR DRUGS	RO1HE 11274-01	MCHA	33,623
CRAIG, ROBERT G	THE MEASUREMENT OF STRESSES IN DENTAL STRUCTURES	RO1DE 01817-06	DEN	31,216
CRAIG, ROBERT G	COEFFICIENT OF FRICTION & WEAR OF DENTAL MATERIALS	RO1DE 02415-03	DEN	17,300
DATTA, PRASANTA K	BIOCHEMISTRY OF REGULATORY CONTROL SYSTEMS	RO1GM 13804-03	BIO	26,216
DAVENPORT, HORACE W	DAMAGE AND REPAIR OF GASTRIC MUCOSAL BARRIER	RO1AM 08716-04	GM	17,418
DE JONG, RUSSELL N	A STUDY OF ANEURYSMS AND ACUTE SUBARACHNOID HEMORRHAGE	RO1NB 02368-11	SSS	14,057
DEKKER, EUGENE E	METABOLISM AND ENZYMOLOGY OF OXO-AMINO COMPOUNDS	RO1AM 03718-09	PC	37,309
DOMINO, EDWARD F	CNS ACTIONS OF SUBSTANCES IMPLICATED AS NEUROHUMORS	RO1NB 01311-10S1	PHY	15,544
DONAHUE, WILMA	MILIEU TREATMENT OF OLDER MENTAL PATIENTS TECH. O EFFECT	RO1HD 01274-04	DBR	41,635

TABLE 2—RESEARCH GRANTS, BY AREA, INSTITUTION, AND PRINCIPAL INVESTIGATOR

INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRG	DOLLARS
MICHIGAN—(CON.)				
EDWARDS, WARD	REVISION OF SUBJECTIVE PROBABILITIES	RO1GM 13143-02	NP	24,319
ELFORD, HOWARD L	ROLE OF VITAMIN B12 IN DEOXYNUCLEOTIDE BIOSYNTHESIS	RO1CA 10441-01	MBC	26,518
ENLOW, DONALD H	CRANIO-FACIAL GROWTH AND DEVELOPMENT	PO1HD 02272-02	HDP	197,552
EPSTEIN, FREDERICK H	CRITERIA AND METHODS FOR CARDIOVASCULAR EPIDEMIOLOGY	RO1HE 08481-05	EDC	27,162
EVANS, F GAYNOR	STRUCTURE AND PHYSICAL PROPERTIES OF BONE	RO1AM 03865-09	AFY	26,029
EVANS, F GAYNOR	STRENGTH OF BIOLOGICAL TISSUES	RO1AM 11004-02	SSS	7,641
FAJANS, STEFAN S	STUDIES IN CARBOHYDRATE METABOLISM	RO1AM 02244-10	GMA	45,908
FAULKNER, JOHN A	COMPARISON OF SELECTED PHYSICAL WORK CAPACITY TESTS	RO1GM 12554-02S1	AFY	270
FISCHER, HARRY W	A STUDY OF AEROSOL BRONCHOGRAPHY AND LARYNGOGRAPHY	RO1CA 10199-03	RAD	4,332
FOGLER, HUGH SCOTT	EFFECT OF ULTRASONICS ON BIOLOGICAL MASS TRANSPORT	RO1HE 10549-01	SSS	9,129
FRAIBERG, SELMA	THE EARLY EGO DEVELOPMENT OF CHILDREN BLIND FROM BIRTH	RO1HD 01444-02S1	PCR	14,739
FRAIBERG, SELMA	THE EARLY EGO DEVELOPMENT OF CHILDREN BLIND FROM BIRTH	RO1HD 01444-03	DBR	83,047
FRANCIS, THOMAS, JR	MECHANISMS OF VIRAL INFECTIONS	PO1AI 05876-05	VR	247,266
FRANCIS, THOMAS, JR	RESEARCH PROGRAM: CARDIOVASCULAR AND RELATED DISEASE	PO1HE 09814-03	HEP	658,376
FRANCIS, THOMAS, JR	INFECTION IN PATHOGENESIS OF EMPHYSEMA	RO1AI 07611-03	SSS	30,923
FREEDMAN, RONALD	FERTILITY AND FAMILY PLANNING IN TAIWAN	RO1AM 03002-01	CPR	94,608
FRETER, ROLF	ECOLOGIC CONTROL MECHANISMS OF NORMAL ENTERIC FLORA	RO1AI 07328-03	BM	21,320
FRETER, ROLF	RESISTANCE AND PROPHYLACTIC IMMUNITY TO CHOLERA	R22AI 07631-02	SSS	37,239
FREY, CHARLES F	GALLSTONE FORMATION IN THE GERM FREE MOUSE	RO1AM 11315-02	NTN	14,455
GALL, JOHN C, JR	QUANTITATIVE GENETIC STUDIES OF THE G6PD LOCUS IN MAN	RO1HD 02083-02S1	GEN	7,920
GALL, JOHN C, JR	QUANTITATIVE GENETIC STUDIES OF THE G6PD LOCUS IN MAN	RO1HD 02083-03	GEN	44,075
GARRISON, DELNA W	MECHANISM OF LOWERING HOST RESISTANCE BY THERMAL TRAUMA	RO1AI 07534-02	BM	11,731
GEORGOPOULOS, BASIL S	THE EFFECTIVENESS OF A CLINICAL NURSE SPECIALIST ROLE	RO2NU 00150-04	NR	77,483
GOLDSTEIN, IRWIN J	PROTEIN-CARBOHYDRATE INTERACTION	RO1AM 10171-03	ALY	26,198
GREEN, DANIEL G	FUNCTIONAL ORGANIZATION OF THE RETINA	RO1NB 07579-01	VIS	27,655
GREENBERG, G ROBERT	BIOCHEMICAL EVENTS AFTER BACTERIOPHAGE INFECTION	RO1AI 08133-11	VR	99,761
GREENE, JAMES A	HEMODYNAMIC & RENAL EFFECTS OF ANTISERUM NEPHRITIS	RO1HE 10482-02S1	CVA	3,193
GREENE, JAMES A	HEMODYNAMIC & RENAL EFFECTS OF ANTISERUM NEPHRITIS	RO1HE 10482-03	CVA	37,480
GROSS, NATHAN B	INVESTIGATION OF AN AUDITORY NERVOUS SYSTEM	RO1NB 05102-05	CMS	20,919
HAN, SEONG S	EFFECTS OF ALTERED RNA METABOLISM ON SALIVARY GLANDS	RO1DE 02311-02	DEN	30,458
HAN, SEONG S	HYPOXIC EFFECT ON DEVELOPING TEETH AND SALIVARY GLANDS	RO1HD 03147-01	DEN	29,782
HARRIS, JAMES E	CRANIOFACIAL VARIATION AND MALOCCLUSION IN FAMILIES	RO1HD 02117-03	DEN	17,724
HARRISON, TIMOTHY S	METABOLIC AND ENDOCRINE INFLUENCES ON CATECHOL AMINES	RO1AM 07252-06	PHRA	29,837
HARTUNG, ROLF	INTERACTIONS OF PESTICIDES AND SEDIMENTED OILS	RO1ES 00147-02	TOX	42,325
HAWKINS, JOSEPH E, JR	MICROSCOPIC STUDIES OF THE INNER EAR	RO1NB 05065-05	CMS	56,901
HAZLETT, BRIAN A	DEVELOPMENT OF COMMUNICATIONS	RO1HD 02847-01	EPR	11,806
HENLEY, KEITH S	GLYCOLYTIC SUBSTRATES AND ENZYMES IN CIRRHOSIS	RO1AM 07361-05	MET	47,628
HEYN, RUTH M	CHILDRENS CANCER STUDY GROUP A	RI0CA 02971-12	SRC	22,478
HICKS, SAMUEL P	RADIATION AND MORPHOLOGIC AND BEHAVIORAL DEVELOPMENT	RO1NB 03861-06	NEUA	23,679
HIGUCHI, WILLIAM I	QUANTITATION OF ENAMEL DEMINERALIZATION MECHANISMS	RO1DE 01830-06	DEN	26,492
HIGUCHI, WILLIAM I	QUANTITATIVE STUDIES OF INTRPHASE DRUG TRANSPORT	RO1GM 13368-02S1	BBCB	1,959
HIGUCHI, WILLIAM I	QUANTITATIVE STUDIES OF INTERPHASE DRUG TRANSPORT	RO1GM 13368-03	BBCB	20,700
HIGUCHI, WILLIAM I	NUCLEATION AND GROWTH OF CHOLESTEROL CRYSTALLITES	RO1HE 07690-07	PC	15,060
HOCH, FREDERIC L	ENERGY TRANSFER AND PHARMALOGIC AND NATURAL PHENOLS	RO1AM 12469-01	BIO	24,249
HOFFMAN, MARTIN L	PSYCHOLOGICAL PROCESSES IN MORAL DEVELOPMENT	RO1HD 02258-02S1	CPR	1,702
HOFFMAN, MARTIN L	PSYCHOLOGICAL PROCESSES IN MORAL DEVELOPMENT	RO1HD 02258-03	DBR	40,383
HOUBLER, SIBLEY W	RENAL FACTORS IN HYPERTENSION	RO1HE 02578-12	CVB	68,855
HOUBLER, SIBLEY W	COOPERATIVE STUDY OF RENOVASCULAR HYPERTENSION	RO1HE 06654-06	SRC	23,037
HOUBLER, SIBLEY W	COOPERATIVE STUDY CEREBROVASCULAR DISEASE & HYPERTENSIO	RO1NB 06930-02	SSS	21,850
HOWATT, WILLIAM F	THE DEVELOPMENT OF RESPIRATORY CONTROL IN THE NEONATE	RO1HD 02728-02	HED	1,721
HUBBARD, W N, JR	GENERAL RESEARCH SUPPORT GRANT	SO1FR 05383-07	NSS	478,705
HUBBARD, WILLIAM N, JR	GENERAL CLINICAL RESEARCH CENTER	MO1FR 00042-08	CLR	751,639
HUELKE, DONALD F	STRESSCOAT DEFORMATION STUDIES OF THE MANDIBLE	RO1DE 00895-09S1	NSS	4,800
HULTQUIST, DONALD E	CHARACTERIZATION OF THE ACTIVE SITES OF PROTEINS	RO1AM 09250-04	BIO	27,986
IOB, VIVIAN	AMINO ACID METABOLISM IN HUMANS	RO1AM 04727-08	NTN	23,551
JACQUEZ, JOHN A	STUDIES IN PERMEABILITY AND TRANSPORT	RO1CA 06734-06	PC	48,123
JAFFE, ROBERT B	STEROID METABOLISM IN THE HUMAN FETO-PLACENTAL UNIT	RO1HD 01776-03	END	14,018
JELINEK, RICHARD C	AN EXPERIMENTAL ANALYSIS OF THE NURSING SERVICE	RO2NU 00189-02	NR	60,498
JOCHIM, KENNETH E	PRESSURE-FLOW RELATIONS IN SERVO-CONTROLLED PERFUSION	RO1HE 08686-03S1	CVB	14,882
JOCHIM, KENNETH E	PRESSURE-FLOW RELATIONS IN SERVO-CONTROLLED PERFUSION	RO1HE 08686-04	CVB	39,450
JOHNSON, ARTHUR G	STUDIES ON THE ACTION OF BACTERIAL ENDOTOXINS	RO1AI 01524-12	ALY	31,245
JOHNSON, ARTHUR G	SEROLOGIC ASSAY FOR HUMAN RENIN	RO1HE 09143-04	ALY	13,319
JOURDIAN, GEORGE W	BIOCHEMISTRY OF MUCOPOLYSACCHARIDES	RO1AM 10531-03	PC	25,881
JUNI, ELLIOT	MECHANISM OF ACTION AND STRUCTURE OF A-CARBOXYLASE	RO1GM 14253-03	BIO	25,964
KAHN, DONALD R	STUDIES IN EXTRACORPOREAL CIRCULATION	RO1HE 09385-04	SGYA	40,026
KAUFMANN, BERWIND P	CHROMOSOME STRUCTURE IN RELATION TO GENE ACTION	RO1GM 10499-06	GEN	28,209
KEMP, NORMAN E	DIFFERENTIATION AND MAINTENANCE OF STRUCTURE IN CELLS	RO1GM 05867-10	CBY	1,536
KOPELMAN, RAOUL	EXCITATIONS IN MOLECULAR AGGREGATES	RO1NB 08116-01	BBCA	19,085
KOWALCZYK, RICHARD S	ENZYMES OF ALDOSTERONE METABOLISM	RO1AM 10347-03	END	16,471
KRIMM, SAMUEL	STRUCTURE OF FIBROUS PROTEINS	RO1AM 02830-11	BBCB	25,404
LANDS, WILLIAM E	ENZYMATIC SYNTHESIS OF GLYCERYL ESTERS	RO1AM 05310-07	PC	25,080
LANE, HARLAN L	LANGUAGE AND LANGUAGE BEHAVIOR ABSTRACTS	RO1LM 00577-01	BCM	59,793
LAWRENCE, MERLE	CAUSES OF DEAFNESS	PO1NB 05785-03	NBPP	341,527

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INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRG	DOLLARS
MICHIGAN—(CON.)				
LAWRENCE, MERLE	DYNAMICS OF INNER EAR FLUIDS	RO1NB 03410-07	CMS	30,336
LEVENBERG, BRUCE	THE ENZYMIC TRANSFORMATION OF PURINES TO PTERIDINES	RO1GM 13325-03	BIO	29,820
LONGONE, DANIEL T.	SYNTHESIS OF ATTRACTANT OF PERIPLANETA AMERICANA	RO1HD 01807-03	MCHB	12,361
LOUIS, LAWRENCE H.	LIPOATROPHIC DIABETES STUDY OF ITS MECHANISM	RO1AM 06665-06	MET	46,672
LUCCHESI, BENEDICT R.	ANALYSIS OF ANTIARRHYTHMIC AGENTS	RO1HE 05806-08	PHRA	15,071
MALVIN, RICHARD L.	ROLE OF CARNITINE IN INTERMEDIARY METABOLISM	RO1AM 01465-12	PC	47,105
MANN, WILLIAM R.	DEVELOPMENT SUPPORT FOR DENTAL RESEARCH INSTITUTE	P13OE 02731-02	DSR	506,945
MANN, WILLIAM R.	GENERAL RESEARCH SUPPORT GRANT	S01FR 05321-07	NSS	82,516
MARTIN, MICHAEL M.	CHEMICAL STUDIES OF THE ATTINI	RO1AI 07386-02	SSS	23,932
MASON, MERLE	CONJUGATED STEROIDS METABOLISM AND PHYSIOLOGICAL ROLE	RO1AM 02294 11	END	28,265
MASSEY, VINCENT	STUDIES ON BIOLOGICAL OXIDATION MECHANISMS	RO1GM 11106-05	PC	80,448
MATOVINOVIC, JOSIP	THYROID TUMOR IN IODINE DEFICIENT RAT	RO1CA 06381-06S1	PTHB	23,245
MAYNARD, DONALD M, JR.	INTEGRATIVE MECHANISMS IN GANGLIA	RO1NB 06017-03	PHY	35,034
MAYNARD, EDITH A.	MORPHOLOGY AND CYTOCHEMISTRY OF DEVELOPING SYNAPSES	RO1NB 04179-06	NEUB	19,826
MENGE, ALAN C.	IMMUNOLOGICAL FACTORS RELATING TO FERTILITY	RO1HD 03463-01	REB	12,725
MERCHANT, DONALD J.	CHARACTERIZATION OF ANIMAL CELLS IN VITRO	RO1AM 03720-11	CBY	43,556
MIDGLEY, A REES	HUMAN LUTEINIZING HORMONE NORMAL & ABNORMAL PROFILES	RO1HD 02929-02	REB	27,776
MIDGLEY, A REES, JR.	NORMAL AND NEOPLASTIC GONADOTROPIN-SECRETING TISSUES	RO1HD 02193-02	PTHB	36,440
MURPHY, WILLIAM H.	IMMUNITY TO LEUKEMIA	RO1CA 06239-05S1	VR	12,014
MYERS, GEORGE E.	CHANGING OCCLUSAL PATTERNS WITH RESTORATIVE DENTISTRY	RO1DE 02170-03	DEN	12,116
NAKABAYASHI, NICHOLAS T.	IMMUNO-CHEMICAL STUDIES OF SEMINAL PLASMA ANTIGENS	RO1HD 03000-02	REB	27,115
NAKANE, PAUL K.	ENZYME-LABELED ANTIBODIES FOR IMMUNOHISTOCHEMISTRY	RO1AI 07758-02	ALY	16,572
NAPIER, EDWARD A, JR.	CELLULAR LIPOPROTEINS	RO1AM 07354-06	PC	30,770
NEEL, JAMES V.	PROGRAM PROJECT IN CELLULAR AND BIOCHEMICAL GENETICS	P01GM 15419-01	GMP	658,119
NORDMAN, CHRISTER E.	X-RAY CRYSTAL ANALYSIS OF ORGANIC COMPOUNDS	RO1GM 15259-05	BBCB	40,405
NORMAN, A GEOFFREY	BIOMEDICAL SCIENCES SUPPORT	S05FR 07050-03	NSS	114,852
NUNGESTER, WALTER J.	INDUCED MOUSE TUMOR REGRESSION	RO1CA 08061-03S1	PHRB	8,826
OAKLEY, BRUCE	NEURAL PLASTICITY IN TASTE AND CUTANEOUS SENSES	RO1NB 07072-02	PHY	18,172
OLIVER, WILLIAM J.	CATECHOLAMINES IN CHILDHOOD NEPHROTIC SYNDROME	RO1HD 02894-01	GMB	19,127
OLSEN, RONALD H.	GROWTH AT LOW TEMPERATURES BACTERIOPHAGE STUDIES	RO1AI 07533-02	BM	22,212
OLSON, NELS R.	TISSUE CULTURE STUDIES FOR OTOLARYNGOLOGY	RO1NB 06364-03	CMS	31,369
ONCLEY, J LAWRENCE	BIOPHYSICAL STUDIES OF PROTEINS	RO1HE 09739-03	BBCB	73,861
OVERBERGER, CHARLES G.	THE ESTEROLYTIC CATALYSIS OF POLYMERIC IMIDAZOLES	RO1GM 15256-02	MCHB	40,729
OXENDER, DALE L.	CHARACTERIZATION OF MEMBRANE TRANSPORT SITES	RO1GM 11024-05	PC	31,382
PARRY, ROBERT W.	BORANE ANALOGS OF OXY COMPOUNDS	RO1CA 07989-04	MCHB	79,775
PAYNE, FRANCIS E.	VIRUSES IN THE PATHOGENESIS OF HUMAN TUMORS	RO1CA 04571-10	VR	37,464
PEYTON, FLOYD A.	EVALUATION AND REFINEMENT OF CERTAIN DENTAL MATERIALS	RO1DE 01234-09	DEN	12,120
PIERCE, G BARRY, JR.	BASEMENT MEMBRANES IN CANCER AND PATHOLOGIC PROCESSES	RO1CA 08201-03S1	PTHB	237
PLATT, JOHN R.	MOLECULAR ORGANIZATION AND INFORMATION-TRANSFER	RO1GM 14035-03	BBCA	82,690
PORTER, RICHARD J.	MECHANISMS OF ANTIBODY FORMATION	RO1AI 03453-09	ALY	21,586
RADIN, NORMAN S.	BRAIN GLYCOLIPIDS METABOLISM AND PATHOLOGY	RO1NB 03192-09	PC	104,784
RAMFIJORD, SIGURD P.	TREATMENT OF PERIODONTAL POCKETS	RO1DE 01430-07	DEN	42,773
RANCK, JAMES B, JR.	SPECIFIC IMPEDANCE OF BRAIN	RO1NB 04352-05S1	PHY	1,282
RANCK, JAMES B, JR.	SPECIFIC IMPEDANCE OF BRAIN	RO1NB 04352-06	PHY	29,225
RASHEVSKY, NICOLAS	RESEARCH IN MATHEMATICAL BIOLOGY	RO1GM 12032-04	SSS	50,638
RESSLER, NEWTON	ELECTROPHORETIC INVESTIGATIONS OF ENZYMES	RO1HE 10361-03	PTHB	23,125
RICHARDS, ALBERT G.	SAFER AND BETTER DENTAL RADIOGRAPHY	RO1DE 02549-02	RAD	4,529
RIEDEL, KLAUS F.	DEVELOPMENT OF LANGUAGE FUNCTIONS	P01HD 01368-03S1	HDP	5,489
RIEDEL, KLAUS F.	DEVELOPMENT OF LANGUAGE FUNCTIONS	P01HD 01368-04	HDP	201,548
RIGGS, THOMAS R.	HORMONAL CONTROL OF AMINO ACID TRANSPORT	RO1AM 03709-09	MET	25,820
RITTER, FRANK N.	INNER EAR VASCULARITY AS RELATED TO DEAFNESS	RO1NB 05491-04	CMS	36,401
RONDELL, PAUL	PHYSIOLOGY OF OVULATION	RO1HD 03470-06	REB	15,302
ROSS, MURIEL D.	HISTOCHEMICAL AND SILVER STUDIES OF THE INNER EAR	RO1NB 07306-02	CMS	17,109
ROWE, THOMAS D.	GENERAL RESEARCH SUPPORT GRANT	S01FR 05571-04	NSS	53,456
RUDDON, RAYMOND W.	MECHANISM OF ACTION OF ALKYLATING AGENTS	RO1CA 02992-11S1	PHRB	6,067
RUTLEDGE, LESTER T.	INTEGRATIVE PROPERTIES OF THE CENTRAL NERVOUS SYSTEM	RO1NB 04119-06	NEUA	32,889
SANDS, RICHARD H.	REDOX REACTIONS BY OPTICAL AND EPR SPECTROMETRY	RO1GM 12176-04	BBCB	65,340
SCHOCH, HENRY K.	COOPERATIVE STUDY OF DRUGS AND CORONARY HEART DISEASE	RO1HE 10353-02	SRC	70,807
SCHTEINGART, DAVID E.	RATE OF SECRETION OF HYDROCORTISONE	RO1AM 05951-07	END	28,356
SCHULTZ, JEROME S.	TRANSPORT OF RESPIRATORY GASES ACROSS MEMBRANES	RO1GM 13402-03	PHY	14,102
SCHULTZ, JEROME S.	PERMEABILITY OF MEMBRANES	RO1GM 15152-02	PHY	17,169
SELLINGER, OTTO Z.	CEREBRAL ENZYMES IN NORMAL AND CONVULSIVE STATES	RO1NB 06294-02S1	NEUB	9,343
SELLINGER, OTTO Z.	CEREBRAL ENZYMES IN NORMAL AND CONVULSIVE STATES	RO1NB 06294-03	NEUB	60,128
SHAFFER, JULES A.	REACTION MECHANISMS FOR HYDROLYTIC ENZYMES	RO1AM 09276-04	BIO	39,159
SHELLABARGER, CLAIRE J.	RADIATION INDUCED BREAST TUMORS IN THE RAT	RO1CA 05496-07	RAD	26,530
SHREFFLER, DONALD C.	GENETIC CONTROL OF MURINE HISTOCOMPATIBILITY FACTORS	RO1AI 06342-04	GEN	1,308
SIEGEL, LEWIS	STRUCTURE AND FUNCTION OF MALIC DEHYDROGENASE	RO1GM 13668-03	BIO	11,520
SIPPEL, THEODORE O.	RESPIRATORY METABOLISM OF THE LENS	RO1NB 03711-06	VIS	25,851
SISSON, JAMES C.	MUCOPOLYSACCHARIDE METABOLISM IN EXOPHTHALMOS	RO1AM 08495-05	GMA	40,710
SMITH, CHARLES B.	SUPERSENSITIVITY OF DENERVATION AND NERVE STIMULATION	RO1NB 06915-02	PHRA	21,268
SPENCER, HERBERT H.	BODY FLUID ENZYMES IN PATIENTS WITH CANCER	RO1CA 04843-09	PHRB	29,153
STEBBINS, WILLIAM C.	LATENCY-INTENSITY FUNCTIONS IN THE AUDITORY SYSTEM	RO1NB 05077-05	CMS	81,733
STEINBERGER, WILLIAM W.	STIMULUS PROGRAMMING FOR WORK IN DENERVATED MUSCLE	RO1NB 07081-02	AFY	12,684

TABLE 2—RESEARCH GRANTS, BY AREA, INSTITUTION, AND PRINCIPAL INVESTIGATOR

INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRG	DOLLARS
MICHIGAN—(CON.)				
STRACHAN, DONALD S	HISTOCHEMISTRY OF ESTERASE ISOENZYMES	R01DE 01923-05	DEN	15,820
STREETER, VICTOR L	PULSATILE FLOW THROUGH DISTENSIBLE TUBES	R01HE 07443-06	CVA	8,033
SUSSMAN, ALFRED S	GROWTH AND MORPHOGENESIS OF NEUROSPORA MUTANTS	R01GM 05987-05	GEN	21,033
SWAIN, HENRY H	ACTION OF DRUGS ON MYOCARDIAL AND PURKINJE CONDUCTION	R01HE 02466-12	PHRA	20,694
TEPHLY, THOMAS R	MICROSOMAL DRUG METABOLISM IN VITRO AND IN VIVO	R01AM 12168-01	PHRA	20,251
TEPHLY, THOMAS R	METHANOL METABOLISM IN HUMAN TISSUES IN VITRO	R01GM 14209-03	TOX	25,096
TOURTELLOTTE, WALLACE W	IMMUNOGLOBULINS IN MULTIPLE SCLEROSIS	R01NB 05388-05	ALY	38,263
TOURTELLOTTE, WALLACE W	COOPERATIVE STUDY OF ACTH IN MULTIPLE SCLEROSIS	R01NB 05844-04	SRC	35,495
TOWNES, HENRY K	SYSTEMATIC MONOGRAPHS OF ICHNEUMON-FLIES	R01AI 04109-07S2	TMP	1,018
TOWNES, HENRY K	SYSTEMATIC MONOGRAPHS OF ICHNEUMON-FLIES	R01AI 04109-08	TMP	32,557
VANDER, ARTHUR J	RENAL TUBULAR REABSORPTION OF SODIUM AND WATER	R01AM 05077-08	PHY	32,849
VON BAUMGARTEN, R J	ELECTROPHYSIOLOGICAL STUDIES ON NEURONAL ACTIVITY	R01NB 07753-01	PHY	31,990
VON BAUMGARTEN, RUDOLF J	SINGLE FIBER ACTIVITY IN THE OLFACTORY TRACT	R01NB 07039-02	CMS	38,041
WAGGONER, R W	INVESTIGATION OF BRAIN TUMORS WITH SILVER CARBONATE	R01NB 00418-12S1	NEUA	1,807
WAGGONER, R W	INVESTIGATION OF BRAIN TUMORS WITH SILVER CARBONATE	R01NB 00418-13S1	NEUA	1,956
WALKER, EDWARD L	STIMULUS PRODUCED AROUSAL PATTERNS AND LEARNING	R01HD 00904-08	EPR	22,073
WATSON, DAVID W	DELAYED HYPERSENSITIVITY IN ULCERATIVE COLITIS	R01AM 10213-03	ALY	14,772
WEGMAN, MYRON E	GENERAL RESEARCH SUPPORT GRANT	S01FR 05447-07	NSS	237,422
WEINHOLD, PAUL A	PHOSPHOLIPID METABOLISM DURING DEVELOPMENT	R01HD 02871-02	MET	16,116
WELLER, JOHN M	NONRENAL ACTIONS OF THIAZIDES	R01HE 08083-05	PHRA	23,417
WHITEHOUSE, WALTER M	BIOMEDICAL INFRARED SCANNING PROGRAM	R01GM 13181-03	RAD	19,425
WILDE, WALTER S	ALBUMIN PROFILE IN KIDNEY MEDULLA	R01HE 09169-04	PHY	20,799
WILLIAMS, CHARLES H, JR	PYRIDINE NUCLEOTIDE-DISULFIDE OXIDOREDUCTASES	R01AM 09313-04	PC	30,489
WORTHINGTON, C R	THE MOLECULAR ORGANIZATION OF BIOLOGICAL SYSTEMS	R01GM 09796-07	BBCB	18,996
WU, CHUNG	GLUTAMINE SYNTHESIS IN RAT LIVER	R01AM 07319-06	BIO	13,207
ZAND, ROBERT	CHEMICAL STUDIES ON BRAIN AND OTHER PROTEOLIPIDS	R01NB 05306-05	BBCB	34,366
ZOGRAFI, GEORGE	INTERFACIAL PROPERTIES OF PHENOTHIAZINE DERIVATIVES	R01NB 07134-04	BBCB	22,541
INSTITUTION TOTAL	235 11,384,116			
DEARBORN				
OAKWOOD HOSPITAL				
ALBAN, E J JR	ADJUVANT UTERINE CANCER CHEMOTHERAPY	R01CA 07372-05	SRC	812
INSTITUTION TOTAL	1 812			
DETROIT				
CHILD RESEARCH CENTER OF MICHIGAN				
COHEN, FLOSSIE	TRANSPLACENTAL PASSAGE OF FETAL ERYTHROCYTES	R01HD 00505-09	HED	47,720
POULIK, M D	SERUM PROTEIN COMPONENTS	R01HE 07495-07	HEM	18,540
POULIK, MIROSLAV D	A STUDY OF ANTIGENIC STRUCTURE OF TISSUE CELLS	R01AI 05785-05	ALY	34,288
STULBERG, CYRIL S	CHARACTERIZATION AND PRESERVATION OF CELL STRAINS	R01CA 02947-12	PTHB	108,937
ZUELZER, WOLF W	CYTOGENETICS IN LEUKEMIA AND IMMUNOLOGIC DEFICIENCY	R01CA 10175-02	PTHB	52,997
INSTITUTION TOTAL	5 262,482			
DETROIT UNIVERSITY OF				
BECKER, CHARLES E				
BECKER, CHARLES E	IMPACT ON DENTISTRY OF CERTAIN GENETIC FACTORS	R01DE 02216-03	GEN	14,620
OZIUBA, HENRY F	GENERAL RESEARCH SUPPORT GRANT	S01FR 05320-07	NSS	35,834
FORSTHOEFFEL, PAULINUS F	TERATOGEN AND GENE INTERACTIONS ON MOUSE DEVELOPMENT	R01HD 02506-02	GEN	11,773
KABARA, JON J	CHOLESTEROL METABOLISM IN TUMOR BEARING MICE	R01CA 07318-05	PTHB	33,706
KABARA, JON J	DRUGS AND BRAIN CHOLESTEROL DURING DEVELOPMENT AND AGING	R01HD 02191-02	PC	24,535
INSTITUTION TOTAL	5 120,468			
EDSEL B. FORD INSTITUTE FOR MEDICAL RESEARCH				
BARTLETT, PAUL D	RENAL METABOLISM IN HEALTH AND DISEASE	R01AM 06983-05	GMB	38,471
BEHER, WILLIAM T	HOMEOSTATIC CONTROL OF CHOLESTEROL METABOLISM	R01HE 05085-08	MET	24,518
REDDING, FOSTER K	HIPPOCAMPUS AND SENSORY EVOKED POTENTIALS	R01NB 07877-01	EXP	20,713
INSTITUTION TOTAL	3 83,702			
HENRY FORD HOSPITAL				
BURNHAM, THOMAS K	IMMUNOFLUORESCENT STUDY OF AUTOIMMUNITY AND NEOPLASIA	R01CA 10999-01	IMB	44,619
ELLIOTT, DONALD N	EFFECT OF SENSORINEURAL LESIONS ON AUDITION	R01NB 04084-06	CMS	58,287
HAYDEN, ROYAL C JR	HUMAN TEMPORAL BONE PATHOLOGY	R01NB 02838-08	CMS	14,880
HAYDEN, ROYAL C, JR	INFLUENCE OF TYMPANIC MUSCLE INTEGRITY ON TTS AND PTS	R01NB 05083-05	CMS	25,588
HODARI, A ALBERTO	PRESSOR SUBSTANCES IN TOXEMIA OF PREGNANCY	R01HD 02677-02	GMB	13,533
PROCTOR, LORNE D	GENERAL RESEARCH SUPPORT GRANT	S01FR 05490-06	NSS	66,609
TALLEY, ROBERT W	COOPERATIVE STUDY OF BREAST CANCER	R10CA 03357-11A1	SRC	51,397
TALLEY, ROBERT W	SOUTHWESTERN COOPERATIVE CHEMOTHERAPY GROUP	R10CA 04915-09	SRC	84,912
INSTITUTION TOTAL	8 359,825			
MARYGROVE COLLEGE				
FLEMING, MARY ALBERT	SYNTHESIS & CHEMISTRY OF PHOSPHORUS-NITROGEN LIGANDS	R01CA 07809-03	MCHB	3,170
INSTITUTION TOTAL	1 3,170			
MERRILL PALMER INSTITUTE				
SIGEL, IRVING E	CONFERENCE RESEARCH & TEACHING OF INFANT DEVELOPMENT	R13HD 02474-02	NSS	6,623
INSTITUTION TOTAL	1 6,623			

TABLE 2—RESEARCH GRANTS, BY AREA, INSTITUTION, AND PRINCIPAL INVESTIGATOR

INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRG	DOLLARS
MICHIGAN—(CON.)				
MICHIGAN CANCER FOUNDATION				
HORWITZ, JEROME P	RING-A ESTROGEN SUBSTITUTION AND PHYSIOLOGICAL RESPONSE	RO1CA 04519-09S1	END	7,082
LA FORCE, RICHARD C	TRANSPORT PHENOMENA IN BIOLOGICAL SYSTEMS	RO1HE 11296-01S1	PHY	3,702
LA FORCE, RICHARD C	TRANSPORT PHENOMENA IN BIOLOGICAL SYSTEMS	RO1HE 11296-02	PHY	19,626
SIMPSON, WILLIAM L	CLINICAL CANCER RESEARCH CENTER	PO2CA 07177-05	SSS	242,378
SIMPSON, WILLIAM L	GENERAL RESEARCH SUPPORT GRANT	SO1FR 05529-06	NSS	86,535
WOLF, PAUL L	HISTOCHEMICAL STUDIES OF CARCINOGENESIS	RO1CA 02624-13	PTHB	44,904
INSTITUTION TOTAL	6 404,227			
MICHIGAN EPILEPSY CENTER AND ASSOCIATION				
DENNERLL, RAYMOND D	COGNITIVE DEFICITS AND BRAIN DYSFUNCTION	RO1NB 06192-02	EXP	44,235
INSTITUTION TOTAL	1 44,235			
SINAI HOSPITAL OF DETROIT				
BECKMAN, HUGH	EFFECTS OF LASER ENERGY	RO1NB 06045-02	VIS	21,068
FOA, PIERO P	ASPECTS OF PANCREATIC PHYSIOLOGY	RO1AM 06034-08	MET	72,708
FOA, PIERO P	GENERAL RESEARCH SUPPORT GRANT	SO1FR 05641-02	NSS	38,704
GOLDFARB, ABRAHAM R	ISOLATION AND STUDY OF RAGWEED ANTIGENS	RO1AI 05386-06S1	ALY	5,059
MC EWEN, CHARLES M, JR	DISTRIBUTION AND REGULATION OF HUMAN AMINE OXIDASES	RO1HD 01782-03	PC	44,277
NOE, FRANCES E	POSTANESTHETIC RESPIRATORY FUNCTION AND HYPOXIA	RO1GM 13724-02	SGYA	20,859
INSTITUTION TOTAL	6 202,675			
WAYNE STATE UNIVERSITY				
ALLINGER, NORMAN L	CONFORMATIONAL ANALYSIS IN THE STEROIDS	RO1AM 05836-07	MCHA	19,557
BARNHART, MARION I	CELLULAR SITES FOR SYNTHESIS OF BLOOD PROTEINS	RO1HE 04712-09	HEM	27,055
BENITEZ, JAIME T	TEMPORAL BONE PATHOLOGY	RO1NB 03953-06	CMS	33,157
BERK, RICHARD S	PATHOGENESIS DUE TO PSEUDOMONAS AERUGINOSA	RO1AI 05214-05	BM	27,686
BERK, RICHARD S	CHEMISTRY AND PATHOLOGY OF PSEUDOMONAS INFECTIONS	RO1AI 07267-02	MBC	23,122
BERK, RICHARD S	MECHANISM OF AUTO-PLAQUE FORMATION IN P AERUGINOSA	RO1AI 07673-02	BM	22,111
BERNSTEIN, MAURICE H	ELECTRON MICROSCOPY OF RETINA AND SUPPORTING TISSUES	RO1NB 02010-10	VIS	24,397
BHARUCHA-REID, ALBERT T	STOCHASTIC PROCESSES IN BIOLOGY	RO1GM 14212-02	SSS	30,275
BING, RICHARD J	PROTEIN SYNTHESIS IN HEART MUSCLE	RO1HE 05043-10	CVA	85,919
BROWN, RAY K	STRUCTURE OF THE ANTIGENIC SITES OF RIBONUCLEASE	RO1AI 06086-06	ALY	44,004
CHAVIN, WALTER	BASIC ASPECTS OF PIGMENT CELL PHYSIOLOGY	RO1CA 07273-05	GM	20,878
CHEN, SHEK-CHYEN	COOPERATIVE LUNG CANCER STUDY PROGRAM	RO1CA 07206-04	RAD	18,550
CLELAND, VIRGINIA S	NURSING PREVENTION OF BACTERIURIA WITH FOLEY CATHETER	RO2NU 00248-01A1	NR	63,402
DAL SANTO, GIANFRANCO	KINETICS OF DISTRIBUTION OF ANESTHETIC AGENTS	RO1NB 05546-04	PHRA	24,291
DE JONGH, DON C	MASS-SPECTROMETRIC STUDY AMICETIN AND RELATED CMPDS	RO1AI 07570-02	MCHA	15,743
FOX, CLEMENT A	THE FINE STRUCTURE OF THE NERVOUS SYSTEM	RO1NB 06925-03	NEUA	53,441
FOX, CLEMENT A	NEUROANATOMY VISITING SCIENTIST PROGRAM	R13NB 06876-02	NEUB	48,379
FRASER, WINIFRED D	ADAPTATION ITS DETERMINATION AND SIGNIFICANCE	RO1NB 07519-01	CMS	36,426
GARDNER, ERNEST	GENERAL RESEARCH SUPPORT GRANT	SO1FR 05384-07	NSS	312,206
GURDJIAN, E S	EXTRACRANIAL ARTERIAL OCCLUSION - JOINT STUDY	RO1HE 04765-09	SRC	4,305
GURDJIAN, ELISHA S	STUDY OF ANEURYSM AND ACUTE SUBARACHNOID HEMORRHAGE	RO1NB 02387-11	SSS	13,363
HARMISON, CHARLES R	OPTICAL ROTATORY DISPERSION STUDIES ON PROTEINS	RO1HE 10393-03	BBCA	17,953
JEFFRIES, CHARLES D	INHIBITORS OF CORTICOID SYNTHESIS IN ENDOTOXEMIA	RO1AI 06767-03	BM	25,226
JONES, LILY A	PRODUCTION AND ANALYSIS OF ACTINOPHAGE SUBUNITS	RO1AI 06621-04	MBC	21,638
KIMURA, TOKUJI	STUDIES ON STERIOD HYDROXYLASES	RO1AM 12713-01	PC	87,451
KINSEY, V EVERETT	STUDY OF INTRAOCULAR FLUID DYNAMICS	RO1NB 01100-11S1	VIS	6,297
KONG, YI-CHI M	INTERRELATIONSHIPS OF TOLERANCE AND IMMUNITY	RO1AI 08076-01	IMB	26,962
LERNER, A MARTIN	FURTHER STUDIES OF THE BIOLOGY OF REOVIRUSES	RO1AI 05721-05	VR	34,482
LEWIS, BENJAMIN M	PULMONARY CAPILLARY BED IN CARDIO-PULMONARY DISEASE	RO1HE 02379-12	CVA	17,785
LUDVIGH, ELEK J, II	DYNAMICS OF BINOCULAR DUCTIONS	RO1NB 03934-07	VIS	23,703
LYNN, GEORGE E	STUDY OF CENTRAL AUDITORY AND VESTIBULAR FUNCTIONS	RO1NB 07862-01	CMS	33,161
MAISEL, HARRY	THE ONTOGENY OF OCULAR ENZYMES	RO1NB 04765-05	VIS	22,007
MAMMEN, EBERHARD F	PROPERTIES OF FACTOR VIII PREPARATIONS	RO1HE 08309-05	HEM	27,004
MARGOLIS, FREDERICK J	FLUORIDE EFFECT ON DENTITION WHEN GIVEN FROM INFANCY	RO1DE 01353-08	DEN	19,418
MC CANN, DAISY S	ARTERIAL S AND P IN EXPERIMENTAL ATHEROSCLEROSIS	RO1HE 04543-09	MET	18,169
MEYER, DAVID B	VISUAL CELLS ORIGIN, ULTRASTRUCTURE, CHEMISTRY	RO1NB 06580-03	VIS	14,687
MEYER, JOHN S	WAYNE NEUROLOGICAL CENTER FOR CEREBROVASCULAR RESEARCH	PO1NB 03564-08	NBP	279,985
MEYER, JOHN S	EXTRACRANIAL ARTERIAL OCCLUSION - JOINT STUDY	RO1HE 04767-09	SRC	60,557
MEYER, JOHN S	COOPERATIVE STUDY ON CEREBROVASCULAR DISEASE & HYPERTENS.	RO1NB 06944-02	SSS	12,373
MEYER, JOHN STIRLING	WAYNE NEUROLOGICAL CENTER FOR CEREBROVASCULAR RESEARCH	PO1NB 03564-07	NBPA	187,647
MISHIMA, YUTAKA	SUBCELLULAR ACTIVITIES IN MELANOCYTE CARCINOGENESIS	RO1CA 08891-02	PTHB	18,252
MITCHELL, ROBERT A	PATHWAYS OF ATP SYNTHESIS AND UTILIZATION	RO1AM 10840-02	BIO	12,658
MIZUKAMI, HIROSHI	CHEMICALLY INDUCED ALTERATION OF PROTEINS IN VIVO	RO1AM 10838-02	HEM	14,317
MOGHISSI, KAMRAN S	STUDIES ON HUMAN REPRODUCTION AND CONTRACEPTION	PO1HD 03416-01	HDP	248,841
ORTEN, JAMES M	BIOSYNTHESIS OF HEMOGLOBIN IN VITRO	RO1HE 10569-03	HEM	21,072
PARKER, CHARLES J, JR	THE MECHANISM OF MUSCLE RELAXATION	RO1AM 05311-07	PC	12,423
PIFFNER, JOSEPH J	BIOCHEMISTRY OF NATURAL COBAMIDES	RO1AM 04302-08	NTN	37,625
PIERCE, JAMES M	BLADDER MUSCLE. IN VITRO STUDY IN HEALTH AND DISEASE	RO1AM 10713-02	SGYA	35,620
PINKUS, HERMANN	SKIN STRUCTURE RELATIVE TO REGENERATION	RO1AM 07194-07	GM	21,483
PINKUS, HERMANN	ELECTRON MICROSCOPY OF HUMAN DERMIS	RO1AM 07981-05	GM	18,344
PINKUS, HERMANN	FINE STRUCTURE OF EPIDERMIS AND PIGMENT CELLS	RO1CA 05580-07S1	MBY	644

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INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRG	DOLLARS
MICHIGAN—(CON.)				
POWER, LAWRENCE H	ARTERIOVENOUS INSULINS	RO1AM 10589-03	MET	25,144
PRASAD, ANANDA S	NUTRITIONAL AND METABOLIC STUDIES ON ZINC	RO1AM 08142-05	NTN	48,129
PROCTOR, LEONARD R	STUDY OF VESTIBULAR PATHWAYS IN THE CEREBELLUM	RO1NB 06362-03	CMS	29,281
REEVES, ANDREW L	EXPERIMENTAL PULMONARY CANCER IN MONKEYS	RO1CA 02507-12S1	PTHB	11,755
REEVES, ANDREW L	THE PATHOGENESIS OF PULMONARY BERYLLIOSIS	RO1ES 00353-01	TOX	50,825
RIDDLE, JEANNE M	ULTRASTRUCTURE OF HUMAN EXUDATIVE LEUKOCYTES	RO1HE 12189-01	HEM	12,066
ROBB, HERBERT J	MICROVASCULAR PATHOPHYSIOLOGY IN SHOCK	RO1HE 09222-03S1	PTHA	10,462
RORABACHER, DAVID B	SOLVENT EFFECTS IN COORDINATION KINETICS METHANOL	RO1GM 12596-03	MCHB	10,614
RUEDEMANN, ALBERT D	PHOTOELASTIC CORNEAL INVESTIGATION	RO1NB 05641-04	VIS	42,868
SCOTT, GORDON H	BIOMEDICAL SCIENCES SUPPORT	S05FR 07051-03	NSS	62,028
SEEGERS, WALTER H	FORMATION AND PROPERTIES OF PROTHROMBIN DERIVATIVES	RO1HE 03424-11	HEM	52,279
SEEGERS, WALTER H	EFFECT OF DRUGS ON BLOOD CLOTTING MECHANISMS	RO1HE 05141-08	HEM	43,940
SHEPARD, ROBERT S	HEMODYNAMIC RESPONSE TO FOOD AND WATER	RO1HE 11194-02	CVA	31,136
SHETLAND, MARGARET L	FACULTY RESEARCH DEVELOPMENT GRANT	RO2NU 00163-04	NR	35,712
STEVENS, CALVIN L	THERAPEUTICALLY PROMISING ANTIBIOTICS FOR CANCER	RO1CA 03772-11	MCHA	33,470
STEVENS, CALVIN L	4-AMINO-4,6-DIDEOXY AND 4-KETO-6-DEOXY SUGARS	RO1GM 11520-05	MCHA	46,945
SWANBORG, ROBERT H	ENCEPHALITIC NATURE OF ALTERED BRAIN PREPARATION	RO1NB 06985-02	IMB	14,793
TCHEN, TCHE T	BIOCHEMICAL BASIS OF CELLULAR DIFFERENTIATION	RO1CA 08669-03	PC	77,300
TCHEN, TCHE-TSING	STUDIES ON SOME METABOLIC PATHWAYS	RO1AM 05384-07	MET	44,376
TRIANTAPHYLLOPOULOS, DEMETRIOS	STUDIES ON FIBRINOGEN AND FIBRIN DERIVATIVES	RO1HE 11090-02	HEM	24,891
VINOGRADOV, SERGE N	PHYSICO-CHEMICAL STUDIES OF PRIMITIVE HEME PROTEINS	RO1HE 11620-01	BBCA	15,503
WHITTEN, CHARLES F	GENERAL CLINICAL RESEARCH CENTER - CHILDREN	MO1FR 00074-06	CLR	224,180
WU, CLYDE Y C	CEREBRESPIRAL FLUID DURING & AFTER HYPOTONIC STATES	RO1HE 10910-03	NEUB	12,702
INSTITUTION TOTAL	74 3,286,450			
EAST LANSING				
MICHIGAN STATE UNIVERSITY				
ANDERSON, RICHARD L	MICROBIAL HEXOSE METABOLISM AND ENZYMOLOGY	RO1AI 08066-02	PC	42,372
ARMISTEAD, WILLIS W	GENERAL RESEARCH SUPPORT GRANT	S01FR 05623-02	NSS	118,682
AUGENSTEIN, LEROY G	MOLECULAR ORGANIZATION AND MENTAL FUNCTION	PO1GM 10890-05	GMP	60,000
AUGENSTEIN, LEROY G	BIOCHEMICAL CHANGES CAUSED BY RADIATION INACTIVATION	RO1CA 06634-06	RAD	63,137
AUST, STEVEN D	STUDIES ON THE BIOACTIVATION OF SLAFRAMINE	RO1AM 11940-01	TOX	24,708
BALABAN, MARTIN	NEURAL CORRELATES OF BEHAVIORAL ONTOGENY	RO1NB 07305-02	CMS	19,620
BAND, RUDOLPH N	PHYSIOLOGICAL INVESTIGATIONS OF HARTMANNELLID AMOEBAE	RO1AE 06117-06	TMP	21,731
BANDURSKI, ROBERT S	NUCLEIC ACID METABOLISM IN YEAST	RO1AM 05916-07	BIO	25,947
BARTLEY, S HOWARD	EFFECTS OF STIMULUS INTERMITTENCY ON COLOR PERCEPTION	RO1NB 05260-05	VIS	28,988
BIEBER, LORAN L	CARNITINE AND IODINE METABOLISM IN FLIES	RO1AM 10514-03	TOX	29,474
BRUBAKER, ROBERT R	EXPRESSION AND REGULATION OF VIRULENCE IN PASTEURELLAE	RO1AI 08468-01	BM	28,589
CANTINO, EDWARD C	BIOCHEMISTRY OF MORPHOGENESIS IN BLASTOCYCLADIELLA	RO1AI 01568-12	BM	21,883
COOK, ROBERT M	CONTROL OF ACETATE METABOLISM IN ANIMALS	RO1AM 12277-01	MET	14,920
COSTILOW, RALPH N	MECHANISM OF ORNITHINE FERMENTATION	RO1AM 10791-02	MBC	15,859
COX, HERBERT W	RELAPSE MECHANISMS IN MALARIA	RO1AI 08508-01	TMP	35,033
DAUGHERTY, ROBERT M, JR	EFFECT OF O2 AND CO2 ON CAPILLARY PERMEABILITY	RO1HE 11071-02	PHY	14,112
DEAL, WILLIAM C, JR	STRUCTURE AND FUNCTION OF SOME GLYCOLYTIC ENZYMES	RO1GM 11170-06	PC	35,125
DIANA, JOHN N	EFFECT OF HORMONES ON TRANSCAPILLARY FLUID MOVEMENT	RO1HE 11070-02	PHY	29,516
DOGAN, LE ROY, JR	COMPONENT CHANGES IN CARDIOVASCULAR LIPIDS	RO1HE 09441-03S1	NTN	6,119
DOGAN, LE ROY, JR	COMPONENT CHANGES IN CARDIOVASCULAR LIPIDS	RO1HE 09441-04	NTN	18,772
EISENSTEIN, EDWARD M	LEARNING IN A SINGLE GANGLION	RO1NB 08369-01	NEUB	16,645
ELLINGBOE, ALBERT H	GENETICS AND PHYSIOLOGY OF PLANT PARASITISM	RO1AI 06420-06	BM	33,337
EMERSON, THOMAS E, JR	EFFECT OF VASOACTIVE AGENTS ON VENOUS RETURN	RO1HE 10899-03	CVB	18,574
EVANS, ROBERT J	LIPID-PROTEIN BINDING IN LIPOPROTEINS	RO1AM 10214-03	NTN	21,806
FARNUM, DONALD G	PREPARATION OF NOVEL HETEROCYCLES	RO1GM 14972-02	MCHA	30,357
FROMM, PAUL O	COMPARATIVE PHYSIOLOGICAL STUDIES OF VERTEBRATE EYES	RO1NB 04125-05	VIS	33,414
GERHARDT, PHILIPP	BACTERIAL PERMEABILITY	RO1AI 06999-03	MBC	18,561
HADDY, FRANCIS J	EFFECT OF CATIONS, ANIONS, AND WATER UPON BLOOD VESSELS	RO1HE 10778-03	PHY	32,022
HAFS, HAROLD D	THE CAPACITATION OF SPERMATOZOA IN UTERINE FLUID	RO1HD 03039-01	REB	28,048
HANSEN, ROGER G	REACTIONS OF NUCLEOSIDE DIPHOSPHATE SUGARS	RO1AM 11156-02	PC	32,175
HEUSNER, WILLIAM W	ANXIETY, ACTIVITY AND GENESIS OF HEART DISEASE	RO1HE 10743-02	AFY	30,102
HIRSCH, PETER	MORPHOGENESIS AND METABOLISM OF BUDDING BACTERIA	RO1AI 08423-01	MBC	18,363
HOOK, JERRY B	FACTORS AFFECTING RENAL PHYSIOLOGY IN THE NEWBORN	RO1AM 10913-02	CVB	20,946
HUNT, ANDREW D, JR	GENERAL RESEARCH SUPPORT GRANT	S01FR 05656-01	NSS	67,389
JOHNSON, JOHN I, JR	DEVELOPMENT OF AFFERENT NEURAL CENTERS	RO1NB 05982-03	NEUA	26,229
KINDEL, PAUL K	BIOSYNTHESIS OF BRANCHED CHAIN SUGARS	RO1AM 08608-03S1	PC	14,672
KNISELY, WILLIAM H	CENTER FOR LABORATORY ANIMAL RESOURCES	PO6FR 00366-02	NSS	381,327
KNISELY, WILLIAM H	BIOMEDICAL SCIENCES SUPPORT	S05FR 07049-03	NSS	88,689
LE GOFF, EUGENE	SYNTHESIS OF POLYHEDRAL ORGANIC MOLECULES	RO1AI 07869-02	MCHA	23,371
MEITES, JOSEPH	NEUROENDOCRINE AND DIETARY CONTROL OF PROLACTIN	RO1AM 04784-08	END	37,139
MEITES, JOSEPH	NEUROENDOCRINE CONTROL OF MAMMARY AND PITUITARY TUMORS	RO1CA 10771-01	END	52,484
MICKELSEN, OLAF	THE EFFECTS OF FEEDING CYCAD	RO1CA 07052-06	NTN	34,492
MOORE, KENNETH E	THE ROLE OF CATECHOLAMINES IN DRUG TOXICITY	RO1AM 11083-03	PHRA	21,807
MORRIS, ALLAN J	THE BIOSYNTHESIS OF CONJUGATED PROTEINS	RO1AM 08575-05	PC	29,833
OVERBECK, HENRY W	PERIPHERAL VASCULAR RESPONSES IN HUMAN HYPERTENSION	RO1HE 10922-03	CVA	36,032
OVERBECK, HENRY W	VASCULAR RESPONSES IN EXPERIMENTAL HYPERTENSION	RO1HE 11354-02	CVA	34,534

TABLE 2—RESEARCH GRANTS, BY AREA, INSTITUTION, AND PRINCIPAL INVESTIGATOR

INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRG	DOLLARS
MICHIGAN—(CON.)				
PAX, RALPH A	PHYSIOLOGY OF THE LIMULUS HEART	RO1HE 09718-04	PHY	12,632
PURSER, DOUGLAS B	GERM-FREE AND GNOTOBIOTIC RUMINANT NUTRITION STUDIES	RO1AM 12073-01	NTN	9,800
PURSER, DOUGLAS B	GNOTOBIOTIC RUMINANT NUTRITION STUDIES	RO1AM 12073-02	NTN	23,312
REINKE, DAVID A	EFFECTS OF PROGESTINS ON UTERINE CONTRACTILE ACTIVITY	RO1HD 03548-01	PHRA	12,436
REUSCH, WILLIAM H	RING MODIFICATION IN STEROIDS	RO1AM 10849-02	MCHA	24,143
RIVERA, EVELYN M	DEVELOPMENT OF THE MAMMARY GLAND IN VIVO AND IN VITRO	RO1HD 02374-02	MET	16,795
ROSENBERG, BARNETT	ELECTRONIC CHARGE TRANSPORT IN VISUAL SYSTEMS	RO1NB 04145-06	VIS	40,326
SADOFF, HAROLD L	MECHANISM OF HEAT RESISTANCE IN BACTERIAL SPORES	RO1AI 01863-11	BM	37,238
SAN CLEMENTE, CHARLES L	CHARACTERIZATION OF STAPHYLOCOCCAL ACID PHOSPHATASE	RO1AI 08121-01	BM	12,114
SCOTT, JERRY B	RELATION OF LOCAL PO ₂ AND PCO ₂ TO LOCAL BLOOD FLOW	RO1HE 10879-02A1	PHY	18,849
SLEIGHT, STUART D	TOXICOPATHOLOGY OF NITRATES IN REPRODUCTION	RO1HD 01600-03	TOX	29,213
SUELTER, CLARENCE H	ASPECTS OF ENZYME CATALYSIS	RO1GM 09827-07	BIO	24,710
SWEELEY, CHARLES C	CHEMISTRY AND METABOLISM OF SPHINGOLIPIDS	RO1AM 12434-01	PC	108,166
SWINDLER, DARIS R	PRIMATE DENTAL VARIABILITY	RO1DE 02231-05	DEN	11,042
SWINDLER, DARIS R	ANATOMY OF PRIMATES	RO1LM 00532-04	SSS	32,227
SWISHER, SCOTT N	INTERACTION OF BLOOD CELLS AND ANTIBODIES	RO1AM 12741-01	HEM	14,522
THORNTON, CHARLES S	NEURAL AND EPIDERMAL INTERACTIONS IN REGENERATION	RO1NB 04128-06	CB	14,581
TIEN, H TI	BIMOLECULAR LIPID MEMBRANES IN AQUEOUS MEDIA	RO1GM 14971-03	BBCB	41,567
WALKER, BRUCE E	DEVELOPMENT OF THE PALATE AND LIP IN MICE	RO1HD 03530-01	HED	23,863
WALKER, BRUCE E	RADIOAUTOGRAPHY OF INJURED SPINAL CORD	RO1NB 07901-01	PTHA	22,384
WAYS, PETER O	LIPID AND PROTEIN BIOCHEMISTRY OF RED CELL MEMBRANES	RO1AM 12498-01	HEM	41,423
WELLS, WILLIAM W	GALACTITOL FORMATION AND ABNORMAL TISSUE FUNCTION	RO1AM 10209-02	MET	33,254
WELLS, WILLIAM W	CHOLESTEROL BIOSYNTHESIS IN BONE MARROW	RO1HE 10159-02	MET	34,160
WHITEHAIR, CHARLES K	PATHOGENESIS AND PREVENTION OF MURINE PNEUMONIA	RO1FR 00383-02	AR	32,162
WOOD, WILLIS A	STRUCTURE AND FUNCTION OF KDPG-GLUCONATE ALDOLASE	RO1GM 14058-03	BIO	42,911
ZIMMERMAN, BURKE K	THE ENZYMIC SYNTHESIS & REPAIR OF DEOXYRIBONUCLEIC ACID	RO1GM 15070-02	PC	35,533
INSTITUTION TOTAL	72	2,586,298		
ELOISE				
WAYNE COUNTY GENERAL HOSPITAL AND INFIRMARY				
FISCHER, HARRY W	INTRAVENOUS UROGRAPHY	RO1HE 11203-01	RAD	10,372
SCHNEIDER, CHARLES L	FIBRINATION-FIBRINOLYSIS PATHOGENESIS IN PREGNANCY	RO1HD 03538-04	HEM	28,032
SCHNEIDER, CHARLES L	FIBRINATION-FIBRINOLYSIS MICROCIRCULATION	RO1HE 08397-03S2	HEM	198
THOMPSON, GEORGE R	URINARY EXCRETION OF MUCOPOLYSACCHARIDES	RO1AM 09796-03	GM	10,423
INSTITUTION TOTAL	4	49,025		
GRAND RAPIDS				
BUTTERWORTH HOSPITAL				
MANN, JOSEPH D	XGA BLOOD GROUP ANTIGEN IN HEREDITARY DISEASES OF MAN	RO1GM 10474-06	GEN	18,789
INSTITUTION TOTAL	1	18,789		
KALAMAZOO				
WESTERN MICHIGAN UNIVERSITY				
COOKE, DEAN W	ASYMMETRIC REACTIONS OF COBALT-AMINO ACID COMPLEXES	RO1AM 12262-01	MCHB	26,417
FOOTE, J LINDSLEY	AORTIC CEREBROSIDES AND ATHEROSCLEROSIS	RO1HE 10657-02	PC	24,253
FRIEDMAN, STEPHEN B	THE CELL MEMBRANE IN PERMEATION AND PROTEIN SYNTHESIS	RO1GM 15027-02	MBY	22,514
HARMON, ROBERT E	FRAUDULENT NUCLEOSIDES	RO1CA 06140-07	MCHA	19,992
STENESH, JOCHANAN	RIBOSOMES FROM MESOPHILIC AND THERMOPHILIC BACTERIA	RO1AI 06310-04	MBC	32,697
INSTITUTION TOTAL	5	125,873		
LANSING				
MICHIGAN DEPARTMENT OF PUBLIC HEALTH				
HYNDMAN, LEE A	PURIFICATION OF AHG FOR CLINICAL USE IN MAN	RO1HE 10908-02S1	ALY	8,591
HYNDMAN, LEE A	PURIFICATION OF AHG FOR CLINICAL USE IN MAN	RO1HE 10908-03	ALY	36,094
SZWEJDA, LOUIS F	TOPICAL FLUORIDES IN COMMUNITY PROGRAMS	RO1DH 00018-04S2	DEN	7,540
SZWEJDA, LOUIS F	TOPICAL FLUORIDES IN COMMUNITY PROGRAMS	RO1DH 00018-05	DEN	71,893
INSTITUTION TOTAL	4	124,118		
ROCHESTER				
MICHIGAN STATE UNIVERSITY--OAKLAND UNIVERSITY				
KINSEY, V EVERETT	STUDY OF INTRAOCULAR FLUID DYNAMICS	RO1NB 08339-01	VIS	41,738
REDDY, D V	INTRAOCULAR TRANSPORT	RO1NB 08340-01	VIS	29,378
UNAKAR, NALIN J	P-HYDROXYPROPIOPHENONE AND CHEMICALLY INDUCED HEPATOMAS	RO1CA 10400-01	PTHB	20,640
INSTITUTION TOTAL	3	91,756		
SOUTHFIELD				
PROVIDENCE HOSPITAL				
KNIGHTS, EDWIN M, JR	CLINICAL ADAPTATION OF ULTRAMICRO METHODS	RO1GM 10920-06	PTHB	12,902
INSTITUTION TOTAL	1	12,902		
STATE TOTAL	437	19,171,834		

TABLE 2—RESEARCH GRANTS, BY AREA, INSTITUTION, AND PRINCIPAL INVESTIGATOR

INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRG	DOLLARS
MINNESOTA				
AUSTIN				
MINNESOTA UNIVERSITY OF				
BAUMANN, WOLFGANG J	DIOL LIPIDS	R01AM 11255-02	MCHB	14,667
CHIPAULT, JACQUES R	REACTION OF OXIDIZED LIPIDS WITH NITROGEN COMPOUNDS	R01AM 07243-05S1	MET	8,274
CHIPAULT, JACQUES R	THE NATURE OF FECAL LIPIDS	R01AM 09337-04	NTN	27,448
HOLMAN, RALPH T	REQUIREMENTS OF POLYUNSATURATED FATTY ACIDS	R01AM 04524-08	NTN	46,386
HOLMAN, RALPH T	STUDIES IN THE ANALYSIS AND PROPERTIES OF LIPIDS	R01HE 03559-11	MCHB	68,632
HOLMAN, RALPH T	ENZYME STUDIES OF POLYUNSATURATED ACID METABOLISM	R01HE 10489-03	PC	25,410
JENKIN, HOWARD M	LIPID STUDIES OF THE PSITTACOSIS-TRACHOMA AGENTS	R01AI 07747-02	VR	34,451
LUNDBERG, WALTER O	CHEMICAL AND BIOLOGICAL PROPERTIES OF LIPIDS	PD1HE 08214-05	HEPA	256,665
LUNDBERG, WALTER O	CHEMICAL NATURE OF TISSUE LIPIDS	R01HE 02772-12	PC	34,755
LUNDBERG, WALTER O	EFFECTS OF POLYUNSATURATION ON LIPID ESTERS	R01HE 04386-09	NTN	35,592
LUNDBERG, WALTER O	LIPID PREPARATIONS FOR RESEARCH	R01HE 04601-10	SRC	12,414
PRIVETT, ORVILLE S	EFFECT OF DIETARY FAT ON GLYCERIDE STRUCTURE	R01AM 04942-08	NTN	42,102
PRIVETT, ORVILLE S	ISOLATION AND PROPERTIES OF POLYENOIC FATTY ACIDS	R01AM 05018-07	MCHB	41,608
PRIVETT, ORVILLE S	ANALYSES OF COMPONENT TRIGLYCERIDES AND PHOSPHOLIPIDS	R01HE 05735-08	PC	23,184
SCHLENK, HERMANN	LIPIDS IN MICROORGANISMS AND PLANTS	R01AM 05165-07	MBC	47,106
SCHLENK, HERMANN	METABOLIC INTERCONVERSION OF LIPIDS	R01HE 05363-09	MET	32,023
SCHMID, HARALD H	NEUTRAL PLASMALOGENS AND ALKOXYGLYCERIDES	R01CA 10155-02	MET	26,282
INSTITUTION TOTAL	17 776,999			
DULUTH				
MINNESOTA UNIVERSITY OF				
NICHOL, JAMES C	ELECTROPHORESIS OF COMPOUNDS OF BIOLOGICAL INTEREST	R01GM 10841-09	BBCA	15,074
INSTITUTION TOTAL	1 15,074			
ST. LUKE'S HOSPITAL				
HILDING, ANDERSON C	NEW ASPECTS OF PHYSIOLOGY OF RESPIRATORY EPITHELIUM	R01GM 09603-06	PHY	42,451
INSTITUTION TOTAL	1 42,451			
MINNEAPOLIS				
HENNEPIN COUNTY GENERAL HOSPITAL-MINNEAPOLIS MEDICAL RESEARCH FOUNDATION				
LINDALL, ARNOLD W	STUDIES OF ISOLATED INSULIN SECRETION GRANULES	R01AM 11739-01	MET	39,624
RICHARDS, A MAC DONELL	DETERMINATION OF FLOW VELOCITY PROFILES IN AORTA	R01HE 12097-01	CVB	23,422
INSTITUTION TOTAL	2 63,046			
MINNESOTA UNIVERSITY OF				
ALTER, MILTON	DERMATOGLYPHICS IN MENTAL RETARDATION	R01HD 01507-03	NEUB	16,097
ANDERSON, GAYLORD W	GENERAL RESEARCH SUPPORT GRANT	S01FR 05448-07	NSS	124,366
ANDERSON, JOHN A	DIRECT AND INDIRECT CALORIMETRY IN NEWBORNS	R01NB 04831-04	PNL	21,986
ANDERSON, JOSEPH T	DIET AND BLOOD LIPIDS IN MAN	R01HE 10194-03	NTN	45,582
ARMSTRONG, WALLACE D	FLUORIDE METABOLISM	PO1DE 01850-05	DEP	134,355
AYOUB, ELIA M	PATHOGENESIS OF RHEUMATIC FEVER	R01AI 08539-01	ALY	54,300
BAKER, A B	NEUROLOGICAL RESEARCH CENTER IN CEREBROVASCULAR DISEASE	PO1NB 03364-07	NBPA	431,013
BAKER, A B	A COLLABORATIVE STUDY OF CEREBROVASCULAR DISEASE	R01NB 03643-05S2	SSS	2,000
BAKER, A B	A COLLABORATIVE STUDY OF CEREBROVASCULAR DISEASE	R01NB 03643-06	SSS	7,384
BAKER, A B	SUMMER WORKSHOP IN CEREBROVASCULAR DISEASE	R13NB 08063-01	NSS	19,606
BAKER, A B	CEREBROVASCULAR WORKSHOP	R13NB 08328-01	NSS	25,000
BAUER, G ERIC	STUDIES ON THE SYNTHESIS OF SECRETORY PROTEINS	R01AM 10952-02	MET	16,354
BEARMAN, JACOB E	ANTI-ARRHYTHMIC DRUGS IN ACUTE MYOCARDIAL INFARCTION	R01HE 05695-06S1	SRC	3,093
BENSON, ELLIS S	HYDROGEN EXCHANGE STUDIES OF PROTEIN STRUCTURE	R01GM 13793-03	BBCB	26,468
BENSON, ELLIS S	PATHOLOGY OF MYOCARDIAL CELL AND CONTRACTILE UNIT	R01HE 01584-15	PTHB	34,157
BENSON, ELLIS S	MOTILITY OF MYOCARDIAL PROTEINS IN HEALTH AND DISEASE	R01HE 10766-02	BBCA	25,735
BERNLOHR, ROBERT W	THE METABOLIC BASIS OF SPORE FORMATION	R01AI 05096-07	BIO	28,546
BERNSTEIN, EUGENE F	DEVELOPMENT OF A MECHANICAL HEART	R01HE 08981-04	SGYB	54,330
BERRY, JAMES F	NERVOUS TISSUE LIPIDS IN DEMYELINATION	R01NB 05052-05	PC	24,513
BLACKBURN, HENRY W, JR	COOPERATIVE STUDY OF DRUGS AND CORONARY HEART DISEASE	R01HE 11898-01	SRC	39,258
BRADLEY, S GAYLEN	DRUG RESISTANCE IN MYCOBACTERIUM TUBERCULOSIS	R01AI 08120-01	BM	7,036
BRADLEY, STERLING G	SYNCYTIC RECOMBINATION IN ACTINOMYCETES	R01AI 07733-02	BM	22,823
BRADLEY, WILLIAM E	INVESTIGATION OF THE NEUROGENIC BLADDER	R01NB 06055-03	NEUB	125,010
BRADLEY, WILLIAM E	ELECTRICAL AND CHEMICAL CHANGE IN BLADDER DYSFUNCTION	R01NB 06414-03	NEUB	15,701
BRAND, GERHARD K	POLYMER SOLID STATE CARCINOGENESIS	R01CA 10712-01	PTHB	42,608
BRAND, K GERHARD	STUDIES ON AGING IN SKIN	R01HD 00146-07	JMB	26,798
BUCHWALD, HENRY	ILEAL BYPASS EFFECT ON CHOLESTEROL & ATHEROSCLEROSIS	R01HE 11901-01	SGYB	55,699
BUCKLEY, JOSEPH J	ASSESSMENT OF POSTOPERATIVE VENTILATORY INSUFFICIENCY	R01HE 09204-04	SGYA	7,546
CAFRUNY, EDWARD J	RENAL TRANSPORT MECHANISMS	R01AM 10240-03	PHY	34,282
CAREY, JAMES B, JR	METABOLISM OF BILE ACIDS	R01AM 00713-14	GMA	33,777
CAREY, JAMES B, JR	PREVENTION OF HEPATITIS AFTER CARDIOVASCULAR SURGERY	R01HE 10352-02	SRC	13,789
CAVERT, H MEAD	SUGAR TRANSPORT IN ISOLATED, CONTRACTING MUSCLE	R01GM 07305-07	MET	17,331
CAVERT, H MEAD	CONTRACTILE WORK AND SUGAR TRANSPORT IN ISOLATED HEART	R01HE 10956-01	MET	9,260
CLAWSON, C CARLYLE	ELECTRON MICROSCOPIC STUDIES OF THE IMMUNE RESPONSE	R01AI 05153-06	PTHB	24,442

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INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRG	DOLLARS
MINNESOTA—(CON.)				
COHEN, HAROLD P	GLUCOSE GLUTAMATE AND THE DEVELOPING BRAIN	RO1NB 05223-04A1	MET	33,747
CRAWFORD, BRUCE	BIOMEDICAL SCIENCES SUPPORT	S05FR 07052-03	NSS	108,649
DARLEY, JOHN G	A CENTER FOR RESEARCH IN HUMAN LEARNING	PO1HD 01136-04	HDP	138,095
DAVIS, RICHARD B	EFFECTS OF AGGREGATING AGENTS ON BLOOD PLATELETS	RO1HE 07150-06	HEM	17,654
DEMPESEY, MARY E	ENZYMIC CHOLESTEROL SYNTHESIS	RO1HE 08634-05	PC	26,558
DEUR, ROBERT F	THE CAUSE AND PREVENTION OF AMINONUCLEOSIDE NEPHROSIS	RO1AM 11591-02	GMB	20,238
DVALL, ARNDT J, III	FLUID BARRIERS WITHIN THE COCHLEA	RO1NB 04615-05	CMS	41,331
DWORKIN, MARTIN	DEVELOPMENTAL BIOLOGY OF THE FRUITING MYXOBACTERIA	RO1AI 08036-01	MBC	41,286
EDSTROM, RONALD D	THE METABOLISM OF THE AMINOHEXURONIC ACIDS	RO1AM 10127-03	PC	21,240
EVANS, ROBERT L	DISTENDING AND PULSATILE FLOW IN MODELS AND ARTERIES	RO1HE 03680-10	PHY	14,185
FELTS, WILLIAM J	CHARACTERISTICS OF DENTAL-SKELETAL AGING	RO1HD 02119-03	DEN	27,602
FLAVELL, JOHN H	VERBAL MEDIATION IN CHILDRENS RECALL	RO1HD 01888-03	EXP	19,733
FOLKE, LARS E A	ETIOLOGY AND TREATMENT OF PERIODONTAL DISEASES	RO1HE 02276-03	DEN	41,106
FOX, IRWIN J	HYPOTENSION FROM POLYMERS AND HYPERTONIC SOLUTIONS	RO1HE 08068-06	CVA	26,320
FOX, IRWIN J	A STUDY OF LEFT VENTRICULAR BARORECEPTOR FUNCTION	RO1HE 11944-01	CVB	10,793
FRANTZ, IVAN D, JR	INTERMEDIARY METABOLISM OF CHOLESTEROL	RO1HE 01875-15	PC	43,383
FRANTZ, IVAN D, JR	DIETARY CHANGE ON HUMAN CARDIOVASCULAR DISEASE	RO1HE 09686-02S1	SRC	154,599
FRANTZ, IVAN D, JR	DIETARY CHANGE ON HUMAN CARDIOVASCULAR DISEASE	RO1HE 09686-03	SRC	618,652
FRENCH, LYLE A	BEHAVIOR AND EEG CORRELATES OF CNS LESIONS AND ABLATION	RO1NB 04954-05	NEUA	30,423
FUSARO, RAMON M	PROTOPORPHYRIA ENZYME AND PORPHYRIN STUDIES	RO1AM 11344-02	HEM	15,329
GISVOLD, OLE	PHYTOCHEMICAL INVESTIGATION OF DIGITALIS SPECIES	RO1HE 06569-06S1	MCHB	5,268
GOETZ, FREDERICK C	SECRETION OF INSULIN BY THE PANCREAS	RO1AM 01556-11S2	END	124
GOETZ, FREDERICK C	SECRETION OF INSULIN BY THE PANCREAS	RO1AM 01556-12	END	51,223
GOETZ, FREDERICK C	RELATION OF TREATMENT TO COMPLICATIONS OF DIABETES	RO1AM 04412-08	SSS	56,829
GOLDBERG, NELSON D	KREBS CYCLE CONTROL IN ALTERED BRAIN METABOLISM	RO1NB 05979-03	PC	19,428
GOOD, ROBERT A	NON-SPECIFIC RESISTANCE TO INFECTION AND INTOXICATION	RO1AI 00798-14	ALY	62,369
GOOD, ROBERT A	FUNDAMENTAL STUDIES IN CLINICAL IMMUNOBIOLOGY	RO1AI 08677-14	ALY	68,987
GOOD, ROBERT A	RENAL DISEASE IN CHILDHOOD	RO1HE 05662-08	PTHA	70,511
GOOD, ROBERT A	PATHOGENESIS OF CNS AUTOIMMUNE DISORDERS	RO1NB 02042-10	IMB	59,473
GORLIN, ROBERT J	PROGRAM GRANT - ORAL PATHOLOGY	RO1DE 01770-06	DEN	37,537
GRIM, EUGENE	MOVEMENT OF WATER AND IONS IN VISCERA	RO1HE 02098-14	PHY	6,184
GUTMANN, HELMUT R	MECHANISM OF ACTION OF CARCINOGENIC AROMATIC AMINES	RO1CA 02571-14	PHRB	42,756
HARRIS, JOHN E	MOVEMENT OF WATER AND SOLUTES ACROSS OCULAR BARRIERS	RO1NB 01979-10	VIS	172,967
HARVEY, RODNEY B	RENAL CONCENTRATING MECHANISM	RO1HE 10185-03	PHY	30,777
HILL, JOHN P	MINNESOTA SYMPOSIUM ON CHILD PSYCHOLOGY	RO1HD 01765-02S1	DBR	166
HILL, JOHN P	MINNESOTA SYMPOSIUM ON CHILD PSYCHOLOGY	R13HD 01765-03	DBR	8,290
HONG, RICHARD	CORRELATION OF STRUCTURE AND FUNCTION OF IMMUNOGLOBULINS	RO1AI 07726-02	ALY	27,000
HOWARD, ROBERT B	CARDIOVASCULAR FUNCTIONS IN PATIENTS	PO1HE 06314-07S1	HEPA	79,835
HOWARD, ROBERT B	CARDIOVASCULAR FUNCTIONS IN PATIENTS	PO1HE 06314-08	HEP	584,744
HOWARD, ROBERT B	GENERAL RESEARCH SUPPORT GRANT	S01FR 05385-07	NSS	412,422
JOHNSON, EUGENE A	BIOMEDICAL DATA PROCESSING UNIT	P07FR 00267-03	COM	287,594
JOHNSON, JOHN A	TRANSPORT STUDIES IN THE ISOLATED PERFUSED HEART	RO1HE 05517-08	PHY	30,547
JOHNSON, RUSSELL C	CHARACTERIZATION OF PATHOGENIC & SAPROPHYTIC LEPTOSPIRAE	RO1AI 06589-04	BM	23,063
JOHNSON, RUSSELL C	COMPARATIVE STUDIES OF PARASITIC SPIROCHETES	RO1AI 08124-01	BM	24,175
KENNEDY, B J	AN INTEGRATED STUDY OF ADVANCED MALIGNANT DISEASES	P02CA 08832-02	SSS	202,448
KENNEDY, B J	COOPERATIVE STUDY OF BREAST CANCER THERAPY	R10CA 05862-06A1	SRC	33,306
KEYS, ANCEL	INTERNATIONAL HEART DISEASE EPIDEMIOLOGY	RO1HE 04697-08S1	SRC	4,174
KEYS, ANCEL	INTERNATIONAL HEART DISEASE EPIDEMIOLOGY	RO1HE 04697-09	SRC	51,632
KEYS, ANCEL	CIRCULATORY AND METABOLIC FUNCTIONS IN AGING MAN	RO1HE 04997-08	CVB	44,670
KOERNER, JAMES F	PROTEIN SYNTHESIS FOLLOWING BACTERIOPHAGE INFECTION	RO1AI 04479-07	BIO	22,295
KOERNER, JAMES F	DEOXYRIBONUCLEASE FROM ESCHERICHIA COLI	RO1GM 12098-05	BIO	17,611
KOLTHOFF, IZAAK M	POLAROGRAPHIC KINETIC PROTEIN WAVES	RO1CA 08723-02	BBCB	19,778
KRIVIT, WILLIAM	CHILDRENS CANCER STUDY GROUP A	R10CA 07306-05	SRC	50,734
KUPFERBERG, HARVEY J	DISTRIBUTION OF NARCOTIC ANALGESICS IN INFANT MAMMALS	RO1HD 02163-03	TOX	16,648
LARNER, JOSEPH	CHEMICAL MECHANISM OF ACTION OF INSULIN	RO1AM 09071-04	MET	56,891
LAZAROW, ARNOLD	MULTIDISCIPLINE DEPARTMENTAL DIABETES RESEARCH PROJECT	PO1AM 06517-06	AMP	160,681
LAZAROW, ARNOLD	DIABETES LITERATURE RETRIEVAL	P07FR 00302-02	SSS	83,757
LAZAROW, ARNOLD	DIABETES LITERATURE RETRIEVAL PROJECT	RO1AM 06049-07	SSS	206,006
LAZAROW, ARNOLD	FETAL ENDOCRINOLOGY AND STUDY OF DIABETES & PREGNANCY	RO1HD 00412-12	HED	40,319
LEE, JUI S	MECHANISM OF WATER ABSORPTION FROM INTESTINE	RO1AM 05073-08	PHY	20,875
LEETE, EDWARD	BIOGENESIS OF NATURAL PRODUCTS OF MEDICINAL INTEREST	RO1GM 13246-11	MCHB	54,104
LEONARD, ARNOLD S	HYPOTHALAMUS AND ULCER FORMATION	RO1AM 06443-06	GMB	18,753
LEONARD, ARNOLD S	EX VIVO ISOLATED ORGAN PERFUSION	RO1HE 10864-02	SGYA	30,445
LIFSON, NATHAN	ABSORPTION BY INTESTINAL MUCOSA IN VITRO	RO1AM 06700-06	PHY	24,691
LILLEHEI, C WALTON	CARDIAC SURGERY NEW AND IMPROVED METHODS	RO1HE 00830-15	SGYA	118,949
LILLEHEI, RICHARD C	SURVIVAL OF ORGANS UNDER VARIOUS EXPERIMENTAL CONDITIONS	RO1AM 03361-09	SGYB	31,252
LILLEHEI, RICHARD C	CAUSE AND PREVENTION OF IRREVERSIBLE SHOCK	RO1HE 02941-12	SGYB	43,763
LIN, SPING	METABOLISM AND ELECTRICAL ACTIVITY OF SINGLE NEURONS	RO1NB 05229-03S1	NEUB	1,928
LIN, SPING	PHOSPHATE METABOLISM IN DEVELOPING BRAINS	RO1NB 07025-02	MET	18,921
LIN, SPING	BIOCHEMICAL-CYTOCHEMICAL STUDY OF FUNCTIONAL NEURONS	RO1NB 07192-01S1	NEUB	3,580
LOKEN, MERLE K	CEREBRAL BLOOD FLOW WITH 133 XENON	RO1HE 11237-02	RAD	10,034
LUMRY, RUFUS W	THE CONFORMATIONAL BASIS OF ENZYMIC CATALYSIS	RO1AM 05853-07	BBC	33,408
MANNERING, GILBERT J	DRUG METABOLISM AND BIOCHEMICAL PHARMACOLOGY	P11GM 15477-02	PTR	371,355

TABLE 2—RESEARCH GRANTS, BY AREA, INSTITUTION, AND PRINCIPAL INVESTIGATOR

INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRG	DOLLARS
MINNESOTA—(CON.)				
MARUYAMA, YOSH	BIOLOGY OF MURINE LYMPHOMATOUS TUMOR CELLS	R01CA 08163-02S2	RAD	7,399
MC KHANN, CHARLES F	ANTIGENIC PROPERTIES OF MALIGNANT CELLS	R01CA 10910-01	IMB	45,415
MEYER, MAURICE W	CIRCULATION STUDIES IN TEETH AND SUPPORTING STRUCTURE	R01DE 02212-03	DEN	16,848
MICHAEL, ALFRED F, JR	NATURE OF CELLULAR AND RENAL EXTRACELLULAR MEMBRANES	R01AM 12375-01	GMB	70,603
MILLER, JACK W	EPINEPHRINE CONTENT OF THE UTERUS-EFFECT OF DRUGS	R01HD 00443-07	PHRA	16,859
MILLER, WILMER G	A STUDY OF MODEL SYSTEMS FOR PROTEIN DEGRADATION	R01GM 15903-01	BBCA	38,353
MIRKIN, BERNARD L	EMBRYOGENESIS OF THE ADRENERGIC NERVOUS SYSTEM	R01NB 07255-02	HED	22,190
MIZUNO, NOBUKO S	RNA IN NORMAL, REGENERATING AND NEOPLASTIC TISSUES	R01CA 07543-05	MET	16,007
MIZUNO, NOBUKO S	BINDING OF ANTITUMOR AGENTS TO DNA	R01CA 10298-01	PHRB	14,557
MURRAY, M JOHN	GASTRIC AND INTESTINAL SECRETIONS IN IRON ABSORPTION	R01AM 10976-02	GMA	19,320
MUSCHEL, LOUIS H	MICROBIAL AND MAMMALIAN TISSUE ANTIBODY STUDIES	R01AI 05454-04S1	IMB	5,921
MUSCHEL, LOUIS H	MICROBIAL AND MAMMALIAN TISSUE ANTIBODY STUDIES	R01AI 05454-05	IMB	46,710
NAJARIAN, JOHN S	ALLOGRAFT TOLERANCE INDUCTION IN MAN AND ANIMAL	P02AI 06063-04S1	IMB	92,746
NAJARIAN, JOHN S	IMMUNOLOGIC MECHANISMS OF HOMOGRAFT REJECTION	R01AM 12415-01	IMB	35,535
NOLAND, WAYLAND E	THE REACTIONS OF INDOLES WITH UNSATURATED COMPOUNDS	R01CA 04073-10	MCHA	29,863
PAGE, ARTHUR R	STUDIES ON INFLAMMATION	R01AM 05830-06S1	ALY	10,160
PAPARELLA, MICHAEL M	EXPERIMENTALLY INDUCED SEROUS OTITIS MEDIA	R01NB 07623-01S1	CMS	8,382
PAPARELLA, MICHAEL M	EXPERIMENTALLY INDUCED SEROUS OTITIS MEDIA	R01NB 07623-02	CMS	19,512
PERRY, JOHN F, JR	EXTRACORPOREAL CIRCULATION IN THE IMMATURE	R01HE 10794-02	SGYA	21,511
PICK, HERBERT L, JR	EFFECTS OF PROLONGED VISUAL DISTORTION	R01HD 03082-06	EXP	28,824
PLAGEMANN, PETER G	REPLICATION OF MENGOVIRUS RNA	R01AI 07250-03	VR	28,458
POLLARA, BERNARD	PHYLOGENETIC DEVELOPMENT OF PLASMA PROTEINS	R01AI 08372-01	ALY	31,240
POPPELE, RICHARD E	FACTORS IN REFLEX MUSCLE CONTROL	R01NB 07421-01	PHY	22,190
PORTOGHESE, PHILIP S	CONFORMATIONALLY RIGID MEDICINALS	R01GM 09402-06	MCHA	12,540
PORTOGHESE, PHILIP S	STEREOCHEMICAL STUDIES ON NARCOTIC ANALGESICS	R01NB 05192-04	MCHA	32,443
PURPLE, RICHARD L	STUDIES ON INTEGRATIVE MECHANISMS OF NEURONS	R01NB 05756-04	VIS	26,502
QUIE, PAUL G	G-VARIANTS, HOST REACTIONS AND CHRONIC INFECTIONS	R01AI 06931-03	BM	22,317
RITCHIE, WALLACE P	THE CONTROL OF GASTRIC MUCOSAL CELLULAR POPULATIONS	R01AM 12344-01	GMA	14,490
ROGERS, PALMER, JR	REGULATION OF ENZYME SYNTHESIS IN BACTERIA	R01AM 09782-03	BIO	26,944
SCHAFFER, ERWIN M	GENERAL RESEARCH SUPPORT GRANT	S01FR 05322-07	NSS	68,989
SCHMITT, OTTO H	STEREOVECTORELECTROCARDIOGRAPHY	R01HE 00513-19	CVA	43,771
SCHMITT, OTTO H	ANALYSIS OF TIME COHERENT CARDIOVASCULAR DATA	R01HE 07575-06	COM	37,316
SCHUMAN, LEONARD M	CHRONIC DISEASE TRAINING DIRECTORS CONFERENCE	R13HE 07097-07	NSS	870
SCHWARTZ, SAMUEL	METABOLIC STUDIES OF CONGENITAL BOVINE PORPHYRIA	R01AM 02096-11	HEM	36,101
SCHWARTZ, SAMUEL	NON-HB HEME PRECURSORS OF BILE AND URINARY PIGMENTS	R01AM 12466-04	HEM	36,349
SCHWARTZ, SAMUEL	PORPHYRINS, TUMORS, AND RADIOSENSITIVITY	R01CA 07845-03S1	RAD	13,841
SEAL, ULYSSES S	CORTISOL BINDING OF PROTEIN	R01AM 11376-07	END	47,052
SHAPIRO, BURTON L	GENETIC STUDIES ON HUMAN PALATAL FORM	R01DE 02282-03	DEN	13,217
SHIDEMAN, FREDERICK E	TRIAZINES ON THE ACTIONS OF STEROID HORMONES	R01AM 11680-06	PHRA	48,922
SHIDEMAN, FREDERICK E	NEUROEFFECTOR TRANSMITTERS IN THE HEART	R01HE 07939-07	PHRA	29,608
SIMONSON, ERNST	ELECTROCARDIOGRAPHIC AND CONSTITUTIONAL CORRELATION	R01HE 05491-08	CVB	10,914
SOINE, TAITO O	CHEMISTRY OF COUMARINS OF INTEREST AS VASODILATORS	R01HE 07101-06S1	MCHB	5,540
SPINK, WESLEY W	ENDOTOXIN SHOCK	R01AI 04415-07	PTHA	30,199
STRANDIORD, PAUL E	SERUM ENZYMES, PROTEINS AND PIGMENT IN LIVER DISEASE	R01GM 15867-01	SSS	27,033
SUNDBERG, R DOROTHY	FATTY ACID DEFICIENCY - RELATIONSHIP TO HEMATOPOIESIS	R01HE 07457-06	HEM	49,479
SWAIMAN, KENNETH F	AMINO ACID FLUX IN DEVELOPING BRAIN	R01HD 01889-03	PC	27,168
TERZUOLO, CARLO A	PROBLEMS OF NERVE CELL PHYSIOLOGY	R01NB 02567-09	PHY	24,315
TOBIAN, LOUIS, JR	PATHOGENESIS OF ARTERIAL HYPERTENSION	R01HE 02008-14	CVB	88,246
TORRES, FERNANDO	LONGITUDINAL STUDY OF EEG PATTERNS IN CHILDREN	R01NB 03418-05	NEUA	13,963
TORRES, FERNANDO	ELECTROGRAPHIC ALTERATIONS IN CEREBROVASCULAR DISEASE	R01NB 06516-02	NEUA	16,956
TUNA, NAIP	COMPUTER ANALYSIS OF VECTORCARDIOGRAM	R01HE 08527-05	COM	59,767
ULSTROM, ROBERT A	ADRENAL STEROID METABOLISM IN CHILDREN	R01HD 01183-06	END	19,690
UNGAR, FRANK	METABOLISM OF STEROID HORMONES	R01AM 02583-09S1	END	9,486
VAN PILSUM, JOHN F	GUANIDINIUM COMPOUND METABOLISM	R01AM 02731-09	GMB	36,166
VARCO, RICHARD L	RENAL GRAFT VASCULAR DAMAGE ITS EFFECTS ON FUNCTION	R01AI 08639-12A1	SGYB	49,988
VARCO, RICHARD L	RELATION OF HOMOGRAFT REJECTION TO HOMOGRAFT SURVIVAL	R01GM 04778-11S1	IMB	17,256
VARCO, RICHARD L	PLANNING THE DEVELOPMENT OF A CARDIOVASCULAR CENTER	R01HE 11459-02	HEPA	98,400
VINCE, ROBERT	NUCLEOTIDE RELATED CHLORAMPHENICOL ANALOGS	R01AI 08142-01	MCHA	17,354
VISSCHER, MAURICE B	HEART AND CIRCULATION STUDIES	R01HE 03212-11	PHY	44,950
WANG, YANG	MYOCARDIAL OXYGEN CONSUMPTION & TENSION-TIME INDEX	R01HE 10296-02	AFY	18,931
WANGENSTEEN, OWEN H	ORIGIN AND NATURE OF ACID PEPTIC ULCER	R01AM 02150-10	SGYB	44,664
WANGENSTEEN, OWEN H	GASTRIC COOLING AND HEALING OF DUODENAL ULCER	R01AM 05689-07	SGYB	43,053
WANGENSTEEN, OWEN H	PRE-LISTERIAN ANTISEPTIC SURGERY PRACTICES	R01LM 00050-02	HM	20,166
WANNAMAKER, LEWIS W	EXTRACELLULAR PRODUCTS OF GROUP A STREPTOCOCCI	R01HE 01829-12	BM	34,920
WARD, W DIXON	THE DETERMINATION OF SUSCEPTIBILITY TO HEARING LOSS	R01NB 04403-06	CMS	29,738
WATSON, CECIL J	CHEMISTRY AND BIOGENESIS OF THE UROBILINS	R01AM 10539-02	IMB	22,454
WATSON, DENNIS W	ONTOGENY OF THE IMMUNE RESPONSE	R01AI 03439-09	IMB	21,603
WATSON, DENNIS W	IMMUNOCHEMISTRY AND BIOLOGY OF BACTERIAL TOXINS	R01AI 06487-04	ALY	24,704
WATSON, DENNIS W	STRUCTURE OF ACTINOMYCETES AND ACTINOPHAGES	R01AI 06804-03	BM	14,349
WATTENBERG, LEE W	A HISTOCHEMICAL STUDY OF CANCER OF THE LARGE BOWEL	R01CA 09599-10	PTHB	39,108
WETLAUFER, DONALD B	ENERGETICS OF PROTEIN STRUCTURE	R01GM 10900-07	BBCB	52,601
WETLAUFER, DONALD B	STRUCTURE AND STABILITY OF NERVE MEMBRANES	R01NB 07835-01	BBCB	74,272
WHITE, JAMES G	TOTAL BODY IRRADIATION AND TRANSPLANTATION	R01AM 02917-08S1	HEM	8,754

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INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRG	DOLLARS
MINNESOTA—(CON.)				
WILLIAMS, RALPH C, JR	STUDIES OF NORMAL ANTI-NUCLEAR ANTIBODIES	R01AI 07901-02	ALY	12,639
WILLIAMS, RALPH C, JR	SPECIFICITY AND FUNCTION OF ANTI-Y-GLOBULINS	R01AM 11055-02	ALY	14,072
WILSON, IVAN D	IMMUNOGLOBULINS AND THE STOMACH, LIVER AND INTESTINE	R01AM 11803-01	ALY	11,392
WILSON, THEODORE A	TRANSPORT DESIGN FOR MINIMUM ENTROPY PRODUCTION	R01HE 09724-04	CVA	14,317
WINDHORST, DOROTHY B	A GENETIC DEFECT OF LYSOSOMES PREDISPOSING TO CANCER	R01CA 10307-01	MBY	25,913
WOLD, FINN	PROTEIN STRUCTURE AND FUNCTION	R01GM 15053-02	BIO	54,480
WONG, EDWARD T	LATS DETECTION BY IMMUNOLOGICAL MEANS	R01AM 12291-01	END	12,395
WOOD, RICHARD L	CYTODIFFERENTIATION IN EMBRYONIC AND FETAL LIVER	R01HD 01337-05	MBY	29,861
YARBRO, JOHN W	DRUG AND GAMMA-RAY EFFECTS ON DNA-RNA PROTEIN METABOLISM	R01CA 08344-03	PHRB	16,195
YARBRO, MARINA T	INTESTINAL TRANSPORT OF AMINO ACIDS IN PHENYLKETONURIA	R01HD 01796-03	MET	31,675
YUNIS, EDMOND J	CARCINOGEN INDUCED THYMOMAS IN LYMPHOID DEVELOPMENT	R01CA 10445-01	PTHB	27,452
YUNIS, EDMOND J	BLOOD GROUP ISOANTIGENS AND LEUKEMIC AND CANCER CELLS	R01CA 10695-01	HEM	16,639
YUNIS, JORGE J	DNA REPLICATION IN DEVELOPING AND MATURE MAMMALS	R01HD 01962-03	GEN	21,511
ZAKI, F GEORGE	MYOPATHY IN NUTRITIONAL INJURY	R01HE 10969-02	PTHB	23,002
ZAKI, FOUAD G	FETAL AND NEONATAL LIVER INJURY	R01AM 11181-02	PTHB	19,129
ZIMMERMAN, B G	PHARMACOLOGIC AND REFLEX INFLUENCE ON VASCULAR TONE	R01HE 08570-05	PHRA	22,395
ZINNEMAN, HORACE H	URINARY AMINO ACIDS CORTISOL ADMINISTRATION	R01AM 06240-05S1	GMA	3,563
INSTITUTION TOTAL	197	9,589,137		
MOUNT SINAI HOSPITAL				
BERMAN, REUBEN	COOPERATIVE STUDY OF DRUGS AND CORONARY HEART DISEASE	R01HE 10701-02S2	SRC	4,503
BERMAN, REUBEN	COOPERATIVE STUDY OF DRUGS AND CORONARY HEART DISEASE	R01HE 10701-03	SRC	74,389
SCHULTZ, ALVIN L	HORMONAL FACTORS IN BLOOD LIPID REGULATION	R01HE 09897-03	NTN	36,039
SIMONSON, ERNST	PHYSIOLOGY AND PATHOLOGY OF FATIGUE	R01HD 02586-02	BCM	16,926
SIMONSON, ERNST	REVIEWS ON RUSSIAN CARDIOVASCULAR RESEARCH	R01HE 07010-12	NSS	4,304
SIMONSON, ERNST	SPATIAL ELECTROCARDIOGRAPHIC VECTOR ANALYSIS	R01HE 11325-01	CVB	49,456
INSTITUTION TOTAL	6	185,617		
ROCHESTER				
INDIVIDUAL GRANT				
SEKERT, ROBERT G	SURVEY REPORT ON CEREBROVASCULAR DISEASE - 3RD EDITION	R13NB 08330-01	NSS	12,741
INSTITUTION TOTAL	1	12,741		
MAYO FOUNDATION				
ALBERT, A	PROTEIN HORMONES IN THE BODY FLUIDS OF MAN	R01AM 01738-11	END	82,690
ARNAUD, CLAUDE D	PARATHYROID HORMONE AND THYROCALCITONIN	R01AM 12302-01	END	67,689
BASSINGTHWAIGHTE, J B	DISPERSION OF DIFFUSIBLE INDICATORS IN THE BODY	R01HE 09719-04	PHY	53,415
BERGE, KENNETH G	COOPERATIVE STUDY OF DRUGS AND CORONARY HEART DISEASE	R01HE 08892-03S1	SRC	987
BERGE, KENNETH G	COOPERATIVE STUDY OF DRUGS AND CORONARY HEART DISEASE	R01HE 08892-04	SRC	33,045
BICKFORD, REGINALD G	AUTOMATIC PATTERN RECOGNITION IN ELECTROENCEPHALOGRAM	R01NB 02056-10	NEUB	46,195
BICKFORD, REGINALD G	INVESTIGATION OF MICROREFLEXES	R01NB 07066-02	NEUB	43,133
BISEL, HARRY F	HORMONAL THERAPY OF ADVANCED BREAST CANCER	R10CA 03664-10A1	SRC	53,986
BROWN, ARNOLD L	BIOCHEMISTRY & ULTRASTRUCTURE OF CARDIAC HYPERTROPHY	R01HE 04856-09	PTHA	55,291
CODE, CHARLES F	MOTOR ACTION OF THE ALIMENTARY CANAL	R01AM 02015-10	GM	25,881
CODE, CHARLES F	WATER, NA & K FLUXES ACROSS THE G.I. MUCOSA	R01AM 02827-10	PHY	28,359
CODE, CHARLES F	PURIFICATION OF GASTRONE	R01AM 04391-08	GMA	29,415
CODY, DOUGLAS T	EVOKED POTENTIALS IN AUDIOVESTIBULAR RESEARCH	R01NB 06306-02S1	CMS	684
CODY, DOUGLAS T	EVOKED POTENTIALS IN AUDIOVESTIBULAR RESEARCH	R01NB 06306-03	CMS	26,876
COOPER, ALBERT	CHEMOTHERAPY OF ACUTE LEUKEMIA AND RELATED DISORDERS	R10CA 04646-09	SRC	40,650
DECKER, RICHARD H	PATHWAYS OF ENERGY METABOLISM IN THE EPIDERMIS	R01AM 11763-01	GMA	14,430
DIVERTIE, MATTHEW B	ULTRASTRUCTURE OF EXPERIMENTAL RADIATION PNEUMONITIS	R01CA 08632-03	PTHB	33,833
DONALD, DAVID E	RESPONSE OF THE TOTALLY DENERVATED HEART TO EXERCISE	R01HE 06143-08	AFY	22,734
DU SHANE, JAMES W	NATURAL HISTORY CONGENITAL HEART DEFECTS-JOINT STUDY	R01HE 09477-03	SRC	9,206
DU SHANE, JAMES W	CODE CLASSIFICATION - CONGENITAL HEART DISEASE	R01HE 10888-02	NSS	8,050
DYCK, PETER J	STUDY OF FAMILIAL NEURAL MUSCULAR ATROPHIES	R01NB 05811-04	NEUB	64,002
DYCK, PETER J	EXPERIMENTAL HYPERTROPHIC NEUROPATHY	R01NB 07541-01	NEUB	29,771
ELLIS, F HENRY, JR	NERVOUS CONTROL OF ESOPHAGUS & ITS SPHINCTER	R01AM 05457-07	GM	25,817
ELLIS, F HENRY, JR	CARDIAC FUNCTION AFTER OPEN MITRAL VALVE OPERATIONS	R01HE 11568-01	SGYA	31,412
ENGEL, ANDREW G	ELECTRON MICROSCOPY OF MYOPATHIES	R01NB 06277-03	NEUB	24,674
FLOCK, EUNICE V	AMINO ACIDS AND AMINES AFTER HEPATECTOMY HEPATIC COMA	R01NB 04004-07	MET	40,953
FOWLER, WARD S	INTRAPULMONARY MOTION AND ALVEOLAR VENTILATION	R01NB 08658-11	PHY	26,651
GLEICH, GERALD J	BIOLOGICAL ACTIVITIES OF IMMUNOGLOBULINS	R01AI 07187-03	ALY	20,294
GOLDSTEIN, NORMAN P	METABOLISM OF COPPER AND CALCIUM IN WILSONS DISEASE	R01NB 03655-07	NTN	36,170
HARRISON, CARLOS E, JR	LOCALIZATION OF DIGOXIN 3H IN THE MYOCARDIAL CELL	R01HE 10101-02S1	PHRA	1,047
HARRISON, CARLOS E, JR	LOCALIZATION OF DIGOXIN-3H IN THE MYOCARDIAL CELL	R01HE 10101-03	PHRA	25,544
HUNT, JAMES C	RENIN, SODIUM AND HYPERTENSION	R01HE 10681-02	CVA	33,718
JOWSEY, JENIFER	STUDY OF OSTEOPOROSIS AND METABOLIC BONE DISORDERS	P01AM 08658-04	AMP	118,957
KERR, F W	SOMATIC SENSORY AND VISCERAL EFFERENT PATHWAYS	R01NB 05995-03	NEUB	55,806
KOTTKE, BRUCE A	DRUG EFFECT ON CHOLESTRAL DEGRADATION TO BILE ACIDS	R01HE 10488-02S1	MET	3,674
KOTTKE, BRUCE A	DRUG EFFECT ON CHOLESTEROL DEGRADATION TO BILE ACIDS	R01HE 10488-03	MET	33,951
KURLAND, LEONARD T	NATURAL HISTORY HEART CANCER STROKE IN A POPULATION	P01GM 14231-02S1	GMP	4,254
KURLAND, LEONARD T	NATURAL HISTORY HEART, CANCER, STROKE IN A POPULATION	P01GM 14231-03	GMP	179,978
MARKOWITZ, HAROLD	ANTIGENS OF HISTOPLASMA CAPSULATUM	R01AM 07497-06	ALY	30,305
MATTOX, VERNON R	CORTISONEGLUCOSIDURONIC ACID SYNTHESIS AND ISOLATION	R01AM 05452-07	MCHA	28,528

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MINNESOTA—(CON.)				
MAYBERRY, WILLIAM E	THE FORMATION OF THYROXINE	RO1AM 10142-03	END	24,170
MC DUFFIE, FREDERIC C	IMMUNOGLOBULINS OF BURSECTOMIZED CHICKENS	RO1AM 11451-01	ALY	44,549
MC DUFFIE, FREDERIC C	COMPLEMENT AND RHEUMATOID FACTOR IN RHEUMATIC DISEASE	RO1AM 11630-02	GMA	41,073
MICHENFELDER, JOHN D	CEREBRAL METABOLISM AND BLOOD FLOW DURING ANESTHESIA	RO1NB 07507-01	NEUB	24,929
MILLIKAN, CLARK H	CEREBROVASCULAR CLINICAL RESEARCH CENTER	PO1NB 06663-03	NBPA	200,516
MOFFITT, EMERSON A	MYOCARDIAL METABOLISM DURING & AFTER OPEN HEART SURGERY	RO1GM 14919-02	SGYA	44,359
NELSON, RALPH A	INTESTINAL FUNCTION AND PANTOTHENIC ACID DEFICIENCY	RO1AM 12069-02	GMA	34,528
NICHOLAS, KARL R K	CIRCULATORY MIXING PROCESSES	RO1HE 10750-02	CVA	26,719
NOVAK, LADISLAV P	K. CREATININE, O ₂ CONSUMPTION	RO1NB 07523-01	NTN	45,301
OWEN, CHARLES A	LIVER IN COPPER METABOLISM IRON ABSORPTION-EXCRETION	RO1AM 03932-08S1	PTHB	3,488
DWEN, CHARLES A	LIVER IN COPPER METABOLISM IRON ABSORPTION-EXCRETION	RO1AM 03932-09	PTHB	48,460
OWEN, CHARLES A	PLATELET DYSFUNCTION - THROMBOCYTOPATHY	RO1HE 09863-03	HEM	30,000
REHDER, KAI	ALVEOLAR VENTILATION IN ANESTHETIZED MAN	RO1HE 12090-01	CVB	55,768
RHOTON, ALBERT L, JR	BRAIN STEM SENSORY CONNECTIONS	RO1NB 07010-02	NEUA	24,606
RYAN, ROBERT J	STUDY OF HUMAN PITUITARY GONADOTROPHINS	RO1AM 12082-01	END	11,811
RYAN, ROBERT J	STUDY OF HUMAN PITUITARY GONADOTROPHINS	RO1HD 03726-02	REB	73,304
SHEPHERD, JOHN T	MECHANISMS OF CARDIOVASCULAR ADAPTATIONS TO EXERCISE	RO1HE 05883-07S1	AFY	2,754
SHEPHERD, JOHN T	MECHANISMS OF CARDIOVASCULAR ADAPTATIONS TO EXERCISE	RO1HE 05883-08	AFY	44,051
SHEPHERD, JOHN T	GENERAL RESEARCH SUPPORT GRANT	SO1FR 05530-06	NSS	208,659
SHORTER, ROY G	STUDIES IN VITRO & IN VIVO OF RABBIT ANTIDOG THYMUS SERA	RO1AI 07838-02	IMB	31,283
SHORTER, ROY G	GI AND RESPIRATORY EPITHELIAL CELL TURNOVER	RO1CA 06987-06	GM	37,077
SILVERSTEIN, MURRAY N	PLANNING FOR CLINICAL CANCER CENTER	RO1CA 10731-01	NSS	99,168
SPITTELL, JOHN A, JR	HYPERCOAGULABILITY IN THROMBOSIS - PLATELET FUNCTION	RO1HE 05008-08	HEM	11,880
SUMMERSKILL, WILLIAM H	CLINICAL RESEARCH IN GASTROENTEROLOGY	PO2AM 06908-05S1	AMP	14,465
SUMMERSKILL, WILLIAM H	CLINICAL RESEARCH AND GASTROENTEROLOGY	PO2AM 06908-06	AMP	382,600
TASWELL, HOWARD F	PREVENTION OF HEPATITIS AFTER CARDIOVASCULAR SURGERY	RO1HE 10225-03	SRC	49,070
TAUXE, WELBY N	TOTAL BODY POTASSIUM LEVELS IN PREGNANT WOMEN	RO1HD 02661-02	GMB	27,930
TAUXE, WELBY N	TOTAL BODY POTASSIUM LEVELS IN CLINICAL RENAL FAILURE	RO1HE 10310-02S1	CVB	2,578
TAUXE, WELBY N	TOTAL BODY POTASSIUM LEVELS IN CLINICAL RENAL FAILURE	RO1HE 10310-03	CVB	26,131
THEYE, RICHARD A	GAS EXCHANGE DURING ANESTHESIA AND THORACIC SURGERY	RO1HE 04881-09	SCYB	41,590
WAKIM, KHALIL G	PATHOPHYSIOLOGY OF THE DIALYSIS DYSEQUILIBRIUM SYNDROME	RO1AM 10676-03	SCYB	30,464
WINKELMANN, R K	A COMPARATIVE STUDY OF ISOLATED VASCULAR SMOOTH MUSCLE	RO1HE 11516-01	CVB	18,571
WINKELMANN, R K	COMPARATIVE NEUROANATOMY OF THE SKIN	RO1NB 01755-11	NEUB	31,072
WOOD, EARL H	COMPUTER PROCESSING IN BIOMEDICAL SYSTEMS	PO7FR 00007-06	COM	446,442
WOOD, EARL H	CARDIOVASCULAR CONTROL AND COMPENSATORY RESPONSES IN MAN	RO1HE 03532-11	CVB	85,914
WOOD, EARL H	X-RAY VIDEOMETRY COMPUTER ANALYSIS OF CARDIODYNAMICS	RO1HE 04664-09	CVA	58,819
INSTITUTION TOTAL	76	3,876,064		
WORLD FEDERATION OF NEUROSURGICAL SOCIETIES				
MAC CARTY, COLLIN S	CONFERENCE ON THE AFTER EFFECTS OF HEAD INJURY	R13NB 07885-01	NSS	10,000
INSTITUTION TOTAL	1	10,000		
ST PAUL				
CHARLES T. MILLER HOSPITAL				
EDWARDS, JESSE E	FUNCTIONAL PATHOLOGY OF CARDIOVASCULAR DISEASE	RO1HE 05694-09	PTHA	78,719
INSTITUTION TOTAL	1	78,719		
MACALESTER COLLEGE				
STOCKER, FRED B	SOME NEW REACTIONS OF IMIDAZOLES	RO1GM 10612-05	MCHB	7,104
INSTITUTION TOTAL	1	7,104		
MINNESOTA UNIVERSITY OF				
ANDERSON, JOHN S	ENZYMOLGY OF BACTERIAL CELL MEMBRANES	RO1AI 08295-01	PC	29,878
BROOKS, MARION A	GROWTH AND TRANSMISSION OF INSECT SYMBIOTES	RO1AI 00961-13	TMP	23,813
COOK, EDWIN F	CHIRONOMIDAE OF NORTH CENTRAL STATES	RO1AI 07029-02	TMP	17,017
CUNNINGHAM, WILLIAM P	ELECTRON MICROSCOPY OF NEGATIVELY STAINED MEMBRANES	RO1GM 13870-03	MBY	24,360
OAGLEY, STANLEY	THE ENZYMATIC DEGRADATION OF AROMATIC COMPOUNDS	RO1AI 07656-02	MBC	13,658
FLETCHER, THOMAS F	DEVELOPMENTAL NERVOUS DISORDERS KRABBS DISEASE	RO1NB 06756-02	NEUA	19,859
FRENKEL, ALBERT W	FUNCTION AND STRUCTURE IN BACTERIAL PHOTOSYNTHESIS	RO1AI 02218-10	PC	35,880
GANDER, JOHN E	BIOGENESIS OF OLIGOSACCHARIDES	RO1AM 09257-05	PC	28,624
GRIFFITHS, HENRY J	INVESTIGATIONS ON DIROFILARIASIS	RO1AI 03165-09	TMP	9,693
HALVORSON, H ORIN	BACTERIAL BIOSYNTHESIS OF DIPICOLINIC ACID	RO1AI 06898-03	MBC	8,025
HENDERSON, L M	HYDROXYLYSINE METABOLISM	RO1AM 07984-06	PC	26,160
HENDERSON, LAVELL M	TRYPTOPHAN METABOLISM	RO1GM 11710-05	PC	30,240
HERMAN, ROBERT K	GENETIC AND BIOCHEMICAL STUDIES OF ESCHERICHIA COLI	RO1AM 11321-02	BIO	17,641
HUNTER, ALAN G	CHARACTERIZATION & PURIFICATION OF SPERM PROTEINS	RO1HD 00816-05	REB	14,341
KERR, NORMAN S	BIOLOGY OF DIDYMIUM NIGRIPES	RO1AI 05521-05	BM	14,022
KIM, KE CHUNG	A REVISION AND CLASSIFICATION OF SPHAERO CERIDAE DIPTER	RO1AI 05436-04	TMP	9,693
KIRKWOOD, SAMUEL	ENZYMES IN STRUCTURAL CARBOHYDRATE CHEMISTRY	RO1GM 09293-07	BIO	48,000
LIENER, IRVIN E	BIOCHEMICAL STUDIES WITH INSOLUBLE PROTEIN DERIVATIVES	RO1GM 12837-04	BIO	18,056
LINDORFER, ROBERT K	THE CHARACTERIZATION OF STAPHYLOCOCCAL TOXINS	RO1AI 01597-11	ALY	35,459
LOVRIEN, REX E	MACROMOLECULAR BINDING OF LIPID COMPOUNDS	RO1GM 13361-02	BBCB	21,910
MC KINNEY, D FRANK	FIXED ACTION PATTERNS AND THEIR ROLE IN COMMUNICATION	RO1NB 06981-02	NEUA	28,762
REMPEL, W E	DEVELOPMENT OF A MINIATURE PIG	RO1HE 01730-15	GEN	41,571

TABLE 2—RESEARCH GRANTS, BY AREA, INSTITUTION, AND PRINCIPAL INVESTIGATOR

INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRG	DOLLARS
MINNESOTA—(CON.)				
ROSENBERG, MURRAY D	APPLICATIONS OF SURFACE PHYSICS TO CELL BIOLOGY	R01GM 13547-03	BBCB	42,179
SCHULTZE, M O	BIOCHEMISTRY OF APLASTIC ANEMIA	R01AM 10785-12	HEM	42,283
SHOPE, RICHARD E, JR	PATHOGENIC BOVINE ENTEROVIRUSES	R01AI 05975-05	VR	18,928
SNUSTAD, D PETER	PHAGE T4-INFECTED E COLI HETEROCATALYTIC EXPRESSION	R01AI 07946-02	GEN	16,187
SNYDER, LEON A	COLICINOGENIC FACTORS RELATION TO CHROMOSOMAL DNA	R01GM 14316-02	GEN	29,246
THORP, W T S	GENERAL RESEARCH SUPPORT GRANT	S01FR 05461-06	NSS	102,200
WAIBEL, PAUL E	FACTORS AFFECTING DISSECTING ANEURYSM	R01HE 04177-10	PTHA	45,719
WALLACE, FRANKLIN G	COMPARATIVE STUDIES ON TRYPANOSOMATIDAE OF INSECTS	R01AI 02373-10	TMP	9,416
WARNER, HUBER R	BIOCHEMISTRY OF PHAGE INFECTION AND REPLICATION	R01AI 07898-02	VR	20,246
WOODWARD, VAL W	GENETIC CONTROL OF ASPARTATE TRANSCARBAMYLASE	R01GM 15137-01S1	GEN	2,782
INSTITUTION TOTAL	32 845,848			
ST. PAUL-RAMSEY HOSPITAL				
GUMNIT, ROBERT J	D C FIELD AND EXCITABILITY CHANGES IN EPILEPTIC FOCI	R01NB 05466-04	NEUA	39,717
INSTITUTION TOTAL	1 39,717			
WINONA				
ST. MARY'S COLLEGE				
KRYSAN, JAMES L	PURIFICATION AND PROPERTIES OF CHOLINESTERAS	R01NB 07085-02	TOX	5,290
INSTITUTION TOTAL	1 5,290			
STATE TOTAL	338 15,547,807			
MISSISSIPPI				
HATTIESBURG				
SOUTHERN MISSISSIPPI UNIVERSITY OF				
CLEVELAND, LEMUEL R	INTERRELATIONSHIP OF HOST AND PARASITE	R01AI 08228-01	TMP	25,265
INSTITUTION TOTAL	1 25,265			
JACKSON				
MISSISSIPPI STATE BOARD OF HEALTH				
TRUBMAN, AARON	SELF-ADMINISTERED PROPHYLAXIS AND TOPICAL FLUORIDES	R01DH 00122-01	DEN	17,621
INSTITUTION TOTAL	1 17,621			
MISSISSIPPI UNIVERSITY OF				
AKUTUS, TETSUZO	IMPLANTABLE PROSTHESIS FOR TOTAL HEART REPLACEMENT	R01HE 11240-01S1	SGYA	10,613
ALLISON, FRED, JR	EAR CHAMBER STUDY OF ACUTE INFLAMMATION	R01HE 02792-13	PTHA	29,773
ANDY, O J	ELECTRICAL AND BEHAVIORAL PATTERNS OF BRAIN SYSTEMS	R01NB 04754-05	NEUB	25,984
ANDY, ORLANDO J	UNIVERSITY MEDICAL CENTER PRIMATE FACILITY	P06FR 00155-04	PME	36,958
ANDY, ORLANDO J	COMPARATIVE PHYLOGENY OF SEPTIM AND RHINENCEPHALON	R01NB 04510-05	NEUB	3,998
ARHELGER, ROGER B	SUBCELLULAR TOXIC AND INFECTIOUS LESIONS	R01GM 16242-01	PTHB	26,095
BARNETT, WILLIAM O	PREOPERATIVE MANAGEMENT OF STRANGULATION OBSTRUCTION	R01AM 10831-02	SGYB	20,821
BONAR, JEANNE R	RADIOIMMUNOASSAY OF ENDOGENOUS HUMAN RENIN	R01AM 10624-03	GMB	38,572
BRIGGS, ARTHUR H	TRANSMEMBRANE FLUXES IN VASCULAR SMOOTH MUSCLE	R01HE 05612-08	PHRA	23,794
BRUNSON, JOEL G	STUDIES ON VASCULAR PERMEABILITY	R01HE 06943-07	PTHB	33,957
BRUNSON, JOEL G	ELECTRON MICROSCOPIC STUDIES	R01HE 09311-09	PTHB	26,202
CARRIER, OLIVER, JR	CHEMICAL EFFECTS IN VASCULAR SMOOTH MUSCLE	R01HE 09391-03S1	PHRA	1,576
CARTER, ROBERT E	GENERAL CLINICAL RESEARCH CENTER	M01FR 00091-05	CLR	143,215
CROWELL, JACK W	ENERGY SYSTEMS IN HEMORRHAGIC SHOCK	R01HE 02494-12	CVA	15,902
DOWDY, ELIZABETH G	EFFECT OF MUSCLE RELAXANTS ON ELECTROLYTE EXCHANGE	R01HE 08243-04	CVA	23,302
ELLIOTT, ROBERT L	ULTRASTRUCTURE OF GASTROINTESTINAL PHYSIOLOGY	R01AM 09087-03S1	PTHA	178
ELSON, LEO	COOPERATIVE STUDY OF DRUGS AND CORONARY HEART DISEASE	R01HE 11115-02	SRC	47,522
GENTRY, GLENN A	NUCLEIC ACID METABOLISM OF PPLO INFECTED CELLS	R01CA 06992-05	VR	12,247
GROGAN, JAMES B	PSEUDOMONAS AERUGINOSA BACTERIOPHAGES	R01AI 06390-03	VR	37,111
GRONVALL, JOHN A	GENERAL RESEARCH SUPPORT GRANT	S01FR 05386-07	NSS	216,103
GUYTON, ARTHUR C	CARDIOVASCULAR DYNAMICS AND THEIR CONTROL	P01HE 11678-01	HEPA	233,874
GUYTON, ARTHUR C	STUDY OF THE REGULATORY SYSTEMS OF THE CIRCULATION	R01HE 08375-05	CVA	79,191
HAERER, ARMIN F	CARBOHYDRATE METABOLITES IN CEREBROSPINAL FLUID	R01NB 06753-02	NEUA	16,717
HARDY, JAMES D	GASTROINTESTINAL-HEPATIC PHYSIOLOGY	R01AM 05122-07	SGYB	56,218
HARDY, JAMES D	FURTHER CARDIOVASCULAR STUDIES	R01HE 06163-08	SGYB	64,033
HARDY, JAMES D	SHOCK - CLINICAL ASSESSMENT OF LABORATORY FINDINGS	R01HE 09858-03	SGYB	31,766
HELLEMS, HARPER K	REGULATION OF REGIONAL MYOCARDIAL BLOOD FLOW	R01HE 07628-07	PHY	41,873
HOLLAND, WILLIAM C	SITE AND MECHANISM OF ACTION OF DIGITALIS	R01HE 08678-05	PHRA	21,230
HUTCHISON, WILLIAM F	STUDIES ON ECHINOCOCCUS IN MISSISSIPPI	R01AI 01237-11S1	TMP	8,402
JACKSON, JOHN F	SH-COMPOUNDS IN CARCINOGENESIS	R01CA 07900-05	PTHB	19,664
KLEIN, RICHARD L	ELECTRON MICROSCOPIC STUDIES IN PHARMACOLOGY	R01GM 15490-01	PHRB	53,727
KLEIN, RICHARD L	ONTOGENESIS OF ELECTROLYTE METABOLISM IN EMBRYO HEART	R01HE 07056-06	PHY	16,440
LANGFORD, HERBERT G	SYSTEMATIC STUDY - METHODS TO PRODUCE PREECLAMPSIA	R01HE 09192-03S1	GMB	13,650
LANGFORD, HERBERT G	SYSTEMATIC STUDY-METHODS TO PRODUCE PREECLAMPSIA	R01HE 09192-04A1	GMB	49,636
LANGFORD, HERBERT G	SOCIO-CULTURAL ECONOMIC FACTORS IN BLOOD PRESSURE	R01HE 10721-02	EDC	117,836
LEHAN, PATRICK H	EVALUATION OF CORONARY COLLATERALS	R01HE 11426-01	CVA	56,561
LOWICKI, EDWARD M	SUBMUCOSAL CORPOREAL GASTRONEUROLYSIS	R01AM 11508-01	SGYB	22,605
MC CAA, CONNIE S	MECHANISMS RELATED TO CONGESTIVE HEART FAILURE	R01HE 09921-03	GMB	36,250
MILHORN, HOWARD T, JR	RESPIRATORY CONTROL SYSTEM	R01HE 09737-03	PHY	12,445

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INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRG	DOLLARS
MISSISSIPPI—(CON.)				
MONTALVO, J M	PITUITARY-ADRENAL FUNCTION FOLLOWING SUBTHALAMOTOMY	R01NB 06648-02	END	22,443
MORSE, PAUL A, JR	MECHANISMS OF NEOPLASTIC TRANSFORMATION	R01CA 08916-02	VR	22,499
NAVAR, LUIS G	REGULATION OF RENAL HEMODYNAMICS	R01HE 11428-01	CVB	11,609
NEILL, KARLEEN C	COOPERATIVE STUDY ANTIHYPERTENSIVE TRTMT & STROKE RECUR	R01NB 06931-02	SSS	20,570
PEELER, DUDLEY F, JR	SEPTAL LESIONS	R01NB 07264-02	NEUB	32,620
RANDALL, CHARLES C	BIOCHEMISTRY OF FOWLPOX REPLICATION AND HYPERPLASIS	R01AI 02031-11	VR	47,215
RANDALL, CHARLES C	NUCLEIC ACIDS OF VIRUS-INFECTED CELLS	R01AI 02032-11	VR	26,221
RANDALL, CHARLES C	ELECTRON MICROSCOPY STUDIES IN MICROBIOLOGY	R01AI 08421-06	VR	21,511
SAGAWA, KIICHI	CONTROL THEORY AND NERVOUS REGULATION OF CIRCULATION	R01HE 09644-04	PHY	2,331
SAGAWA, KIICHI	ANALYSIS OF CIRCULATION AT THE CARDIO-AORTIC JUNCTION	R01HE 10581-02	PHY	12,128
SIAS, FRED R, JR	RETINAL CODING OF VISUAL STIMULI	R01NB 05090-05	VIS	15,688
SMITH, ELVIN E	PHYSIOLOGICAL ADAPTATIONS IN CYANOTIC HEART DISEASE	R01HE 09160-03S1	CVB	3,600
SMITH, ELVIN E	PHYSIOLOGICAL ADAPTATIONS IN CYANOTIC HEART DISEASE	R01HE 09160-04	CVB	18,348
SMITH, ELVIN E	PREVENTION OF ENERGY BASE DEPLETION IN CARDIAC ARREST	R01HE 11780-01	CVB	15,082
SMITH, THOMAS M	FATTY ACIDS OF SCHISTOSOMA MANSONI	R22AI 07546-02	SSS	13,118
SULYA, LOUIS L	ROLE OF ALDOSTERONE IN DEVELOPMENT OF HYPERTENSION	R01HE 08371-05	END	23,040
SULYA, LOUIS L	UNUSUAL ERYTHROCYTE FRAGILITY	R01HE 09898-03	HEM	14,489
TAYLOR, AUBREY E	TRANSPORT ACROSS THE ALVEOLAR CAPILLARY MEMBRANE	R01HE 11477-01	CVB	28,781
THOMPSON, ROBERT B	GENETIC AND PHYSIOLOGIC EVOLUTION OF HEMOGLOBINS	R01HE 10038-03S1	HEM	3,596
THOMPSON, ROBERT B	GENETIC AND PHYSIOLOGIC EVOLUTION OF HEMOGLOBINS	R01HE 10038-04	HEM	35,575
TURNER, M D	KIDNEY PRESERVATION INHIBITORS AND CRYOGENICS	R01AM 10719-02	SGYA	27,947
WHITE, HAROLD B, JR	ANALYTICAL PROCEDURES FOR UNSATURATED FATTY ACIDS	R01HE 06809-06	PC	11,470
WILLIAMS, W LANE	ENDOCRINE IMBALANCES IN CARDIOVASCULAR INJURY	R01HE 04052-10	PTHA	13,940
INSTITUTION TOTAL	62	2,169,862		
ST. DOMINIC-JACKSON MEMORIAL HOSPITAL				
ROSENBLATT, WILLIAM H	ANTI-ARRHYTHMIC DRUGS IN MYOCARDIAL INFARCTION	R01HE 09430-02S1	SRC	19,850
INSTITUTION TOTAL	1	19,850		
STATE COLLEGE				
MISSISSIPPI STATE UNIVERSITY				
GLICK, BRUCE	ANTIBODY PRODUCTION BY A LYMPHO-EPIHELIAL GLAND	R01AI 03398-09	IMB	22,961
INSTITUTION TOTAL	1	22,961		
UNIVERSITY				
MISSISSIPPI UNIVERSITY OF				
DOORENBOS, NORMAN J	ANTIMICROBIAL AZASTEROIDS	R01AI 06798-03	MCHA	30,960
HARTMAN, CHARLES W	GENERAL RESEARCH SUPPORT GRANT	S01FR 05594-01	NSS	92,495
HUANG, CHIAN L	ANTIPROTEASE FACTORS OF KING SNAKE SERUM	R01AM 11069-01	TOX	47,566
INSTITUTION TOTAL	3	171,021		
STATE TOTAL	69	2,426,580		
MISSOURI				
COLUMBIA				
CANCER RESEARCH CENTER				
PEREZ-MESA, CARLOS	ADJUVANTS IN THE TREATMENT OF BLADDER CARCINOMA	R01CA 07738-05	SRC	12,149
SPRATT, JOHN S, JR	CANCER CLINICAL RESEARCH CENTER	P02CA 08023-03S1	SSS	51,289
SPRATT, JOHN S, JR	INTEGRATED PLANNING FOR A CANCER CENTER	R01CA 10181-02	NSS	24,791
SPRATT, JOHN S, JR	GENERAL RESEARCH SUPPORT GRANT	S01FR 05618-02	NSS	39,106
INSTITUTION TOTAL	4	127,335		
MISSOURI DEPARTMENT OF PUBLIC HEALTH AND WELFARE-- ELLIS FISCHEL STATE CANCER HOSPITAL				
PUGH, REGINALD P	RESEARCH IN NEW CANCER CHEMOTHERAPY AGENTS	R10CA 06800-06	SRC	43,975
SPRATT, JOHN S, JR	CANCER CLINICAL RESEARCH CENTER	P02CA 08023-04	SSS	475,755
INSTITUTION TOTAL	2	519,730		
MISSOURI UNIVERSITY OF				
ANAST, CONSTANTINE S	STUDIES OF MAGNESIUM METABOLISM	R01AM 01351-11	GMB	25,314
ANAST, CONSTANTINE S	ROLE OF THYROCALCITONIN IN GROWTH OF CHILDREN	R01HD 02756-02	GMA	30,659
ARNOLD, JAMES S	BONE DENSITY AND COMPOSITION IN AGING & DISEASE	R01AM 10678-04	PTHA	53,711
ARNOLD, JAMES S	TURNOVER RATE OF DENTAL TISSUE WITH LABELED PROLINE	R01DE 02489-02S1	DEN	5,713
BLOOMFIELD, RICHARD A	NITRATE POLLUTION ON ENDOCRINOLOGY AND REPRODUCTION	R01AM 07303-06	TOX	11,905
BLOOMFIELD, RICHARD A	COMPARATIVE METABOLISM AND TOXICOLOGY OF AMMONIA	R01GM 12540-04	TOX	17,411
BREAZILE, JAMES E	CEREBRAL CONTROL OF AUTONOMIC RESPONSES	R01NB 07879-01	NEUA	18,388
BREITENBACH, ROBERT P	NATURE OF AVIAN IMMUNOLOGICAL MATURATION	R01AI 05643-05	IMB	35,114
BURNS, THOMAS W	FAT MOBILIZING ACTIVITY OF HUMAN PLASMA	R01AM 11265-02	MET	24,783
CAMPBELL, BENEDICT J	METAL MEDIATION OF PITUITARY HORMONAL REGULATION	R01AM 04660-07	END	16,832
CAMPBELL, BENEDICT J	CHARACTERIZATION OF KIDNEY PEPTIDASES	R01AM 08511-05	PC	15,074
CLINE, WILLIAM H, JR	CATECHOLAMINE RELEASING ACTION OF ANGIOTENSIN II	R01HE 11770-01	PHRA	24,512
DAVIS, JAMES O	HUMORAL FACTORS IN EXPERIMENTAL HEART FAILURE	R01HE 10612-02	CVA	56,825
DAVIS, LLOYD E	A COMPARATIVE STUDY OF DRUG METABOLISM	R01GM 12386-03	PHRA	37,359
DAVIS, LLOYD E	DRUG METABOLISM IN THE NEWBORN	R01HD 03074-01	PHRA	30,832
DE ROOS, ROGER M	PITUITARY-INTERRENAL RELATIONSHIPS	R01AM 06259-06	END	10,981

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INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRG	DOLLARS
MISSOURI—(CON.)				
DELLMANN, HORST-DIETER	FINE STRUCTURE AND HORMONES OF THE NEUROHYPOPHYSIS	RO1NB 06641-03	NEUA	16,449
DELLMANN, HORST-DIETER	FINE STRUCTURE OF CIRCUMVENTRICULAR ORGANS	RO1NB 07492-01	NEUA	15,271
EGGERS, GEORGE W JR	PATIENT POSITIONING FOR SURGERY AND ANESTHESIA	RO1GM 09183-06	SGVB	7,909
GAVAN, JAMES A	POSTNATAL RHEBUS MONKEY GROWTH	RO1DE 02796-01	HED	15,017
GEORGE, MELVIN D	BIOMEDICAL SCIENCES SUPPORT	S05FR 07053-03	NSS	55,366
GOLDBERG, HERBERT S	GENERAL RESEARCH SUPPORT GRANT	S01FR 05387-07	NSS	206,466
GRIGGS, DOUGLAS M, JR	CORONARY RESISTANCE AND CARDIAC METABOLISM	RO1HE 11876-01	CVB	41,488
GRIGGS, DOUGLAS M, JR	EFFECTS OF INFLOW RESISTANCE ON CORONARY HEMODYNAMICS	RO1HE 11900-01	CVA	28,222
HANNA, FIKRI M	THE LEAN BODY MASS CHANGES WITH GROWTH	RO1AM 11266-02	NTN	24,280
HELLERSTEIN, STANLEY	CHANGES IN ERYTHROCYTE COMPOSITION DURING GROWTH	RO1HE 11164-02	HED	14,514
JACKSON, ROBERT L	INSULIN AND GROWTH HORMONES IN JUVENILE DIABETES	RO1AM 11231-02	END	22,584
KENNY, ALEXANDER D	PHARMACOLOGY OF THYROCALCITONIN	RO1AM 12184-01	PHRA	27,508
KING, THEODORE M	UTERINE CONTRACTILE PROTEIN	RO1HD 01737-03	HED	15,775
KINGREY, B W	GENERAL RESEARCH SUPPORT GRANT	S01FR 05602-02	NSS	62,938
KOEPPE, OWEN J	ENZYMATIC SYNTHESIS OF AROMATIC ACID AMIDES	RO1AM 09984-02	BIO	20,151
LANOOR, JOHN H	STUDY OF EXTRA GASTRIC INFLUENCES ON GASTRIC FUNCTION	RO1AM 07750-04	SGVB	29,814
LOAN, RAYMOND W	INTERFERON IN LEUKEMIA VIRUS INFECTIONS	RO1CA 10283-02	VR	21,096
LOAN, RAYMOND W	PATHOGENESIS OF ALLERGIC ENCEPHALOMYELITIS	RO1NB 07438-01	IMB	20,430
LODWICK, GWILYM S	COMPUTER ANALYSIS OF TUMOR ROENTGENOGRAMS	RO1CA 06263-07	COM	50,982
LUCAS, FRED V	ULTRASTRUCTURE OF ABNORMAL AND NORMAL ENDOMETRIUM	RO1HO 01952-02	PTHA	29,516
LUCKEY, T D	WEST CENTRAL STATES BIOCHEMISTRY CONFERENCE	R13GM 11398-05	PC	2,000
LUKENS, JOHN N	PATHOGENESIS OF THE ANEMIA OF CHRONIC DISORDERS	RO1AM 12595-01	HEM	17,959
MARIENFELD, CARL J	TRACE-AMOUNT SUBSTANCES IN ENVIRONMENTAL HEALTH	PO1ES 00082-03	SSS	252,825
MARIENFELD, CARL J	ANIMAL RESOURCE FOR AGING AND CHRONIC DISEASE STUDIES	PO6FR 00285-02	SSS	152,977
MATHESON, NINA W	IMPACT OF AN SDI SYSTEM ON MENTAL HOSPITAL PERSONNEL	RO1LM 00079-02	BCM	52,408
MAYER, WILLIAM D	GENERAL CLINICAL RESEARCH CENTER	MO1FR 00287-02	CLR	53,791
MC CLURE, ROBERT C	TETRACYCLINE & TOOTH DEVELOPMENT IN SWINE	RO1DE 02181-04	DEN	27,927
MERTZ, DAN	HORMONAL CONTROL OF CELL GROWTH	RO1GM 08706-07	PC	17,062
MEYER, DALLAS K	ENZYMATIC CONTROL OF MYOCARDIAL GLYCOGEN	RO1HE 07118-07	MET	12,107
MUHRRER, MERLE E	THERAPEUTIC FACTORS IN A HEMOPHILIA-LIKE DISEASE	RO1HE 07181-07	HEM	35,861
O DELL, BOYD L	TRACE ELEMENTS IN NUTRITION	RO1HE 11614-01	MET	55,824
PARISI, JOSEPH T	BACTERIOPHAGE TYPING OF BACTERIURIC ESCHERICHIA COLI	RO1AI 07637-02	BM	11,405
PLATNER, WESLEY S	MAGNESIUM AND LIPID METABOLISM IN FATTY LIVER	RO1AM 12437-01	NTN	26,493
SCHUDER, JOHN C	ELECTROMAGNETIC ENERGY TRANSFER THROUGH CHEST WALL	RO1HE 05854-08	CVB	17,167
SENHAUSER, DONALD A	IMMUNOPATHOLOGY OF EARLY LYMPHOCYTIC THYROIDITIS	RO1AM 11918-01	IMB	31,257
SHERIDAN, CHARLES L	NEURAL MECHANISMS OF INTEROCULAR TRANSFER	RO1NB 07455-03	EXP	18,701
STEINITZ-SEARS, LOTTI M	CYTOGENETIC STUDIES IN ARABIDOPSIS	RO1GM 12400-04	GEN	4,982
STOECKLE, HARRY	ARRHYTHMIAS FOLLOWING DEFIBRILLATORY WAVE-FORMS	RO1HE 09279-03	CVB	17,385
THOMPSON, IAN M	SURGERY ADJUVANT BLADDER GROUP	RO1CA 07760-05	SRC	13,486
TWENTE, JOHN W	PHYSIOLOGY OF HIBERNATING MAMMALS	RO1AM 11320-03	PHY	33,707
WEINMAN, DONALD E	PHYSIOLOGICAL MECHANISMS OF SPERMATOZOA CAPACITATION	RO1HD 02156-03	REB	11,048
WESCOTT, RICHARD B	INFLUENCE OF HELMINTHS UPON VIRAL DISEASE	RO1AI 07367-02	TMP	12,803
WESCOTT, RICHARD B	NORMAL BIOLOGIC PROFILES FOR MINIATURE SWINE	RO1FR 00390-01	AR	135,006
WOSILAIT, WALTER D	ON THE ACTION OF ANTICOAGULANTS AND VITAMIN K	RO1AM 10425-04	HEM	21,055
INSTITUTION TOTAL	60	2,176,425		
FULTON				
WESTMINSTER COLLEGE				
JONES, RUSSELL M	EDUCATION OF AMERICAN PHYSICIANS	RO1LM 00569-01	HLS	2,070
INSTITUTION TOTAL	1	2,070		
JEFFERSON CITY				
LINCOLN UNIVERSITY				
DOWDY, WILLIAM W	STUDIES ON THE ECOLOGY OF FOREST SOIL DIPLOPODA	RO1GM 12403-04	TMP	4,888
INSTITUTION TOTAL	1	4,888		
KANSAS CITY				
CHILDREN'S MERCY HOSPITAL				
BROWN, ELWYN S	PULMONARY MECHANICS AND SURFACE TENSION	RO1HE 09010-05	CVB	13,588
INSTITUTION TOTAL	1	13,588		
KANSAS CITY COLLEGE OF OSTEOPATHY AND SURGERY				
COLE, W V	GENERAL RESEARCH SUPPORT GRANT	S01FR 05438-07	NSS	26,836
INSTITUTION TOTAL	1	26,836		
MIDWEST RESEARCH INSTITUTE				
WATT, DEAN D	SCORPION VENOM COMPONENTS - CHEMISTRY AND BIOLOGY	RO1NB 05525-04	TOX	39,100
WATT, DEAN D	PHENYLALANINE ANTIMETABOLITE EFFECT ON NERVOUS SYSTEM	RO1NB 06903-02	PHRA	26,696
INSTITUTION TOTAL	2	65,796		
MISSOURI UNIVERSITY OF				
COHN, DAVID V	METABOLIC PATHWAYS IN BONE	RO1DE 01523-08	GMB	54,501
PORTER, KENDALL	BONE APPPOSITION AND RESORPTION IN VITRO	RO1DE 01790-05	DEN	8,940
ROBINSON, HAMILTON B G	GENERAL RESEARCH SUPPORT GRANT	S01FR 05323-07	NSS	49,310

TABLE 2—RESEARCH GRANTS, BY AREA, INSTITUTION, AND PRINCIPAL INVESTIGATOR

INVESTIGATOR	PROJECT TITLE	GRANT NO	IRG	DOLLARS
MISSOURI—(CON.)				
SCHANKER, LEWIS S	PASSAGE OF DRUGS ACROSS BODY MEMBRANES	R01GM 15483-01	TOX	101,636
INSTITUTION TOTAL	4 214,387			
KIRKSVILLE				
KIRKSVILLE COLLEGE OF OSTEOPATHY AND SURGERY				
DENSLow, J S	GENERAL RESEARCH SUPPORT GRANT	S01FR 05439-07	NSS	51,195
THOMAS, PRICE E	AFFERENT ACTIVITY AND INDUCTION OF SPINAL ENGRAMS	R01NB 05455-04	NEUB	9,600
INSTITUTION TOTAL	2 60,795			
ST LOUIS				
AMERICAN SOCIETY OF HEMATOLOGY				
MOORE, CARL V	XII INTERNATIONAL CONGRESS OF HEMATOLOGY	R13AM 12385-01	HEM	13,000
MOORE, CARL V	XIITH INTERNATIONAL CONGRESS OF HEMATOLOGY 1968	R13HE 11581-01	HEM	17,000
INSTITUTION TOTAL	2 30,000			
CENTRAL INSTITUTE FOR THE DEAF				
HIRSH, IRA J	AUDITORY COMMUNICATION AND ITS DISORDERS	P01NB 03856-06	NBPB	314,884
INSTITUTION TOTAL	1 314,884			
GERONTOLOGICAL SOCIETY				
BIRREN, JAMES E	8TH INTERNATIONAL CONGRESS OF GERONTOLOGY	R13HD 03715-01	NSS	12,543
BLUMENTHAL, HERMAN T	TRAVEL TO INTERNATIONAL CONGRESS OF GERONTOLOGY	R13HD 02070-02	NSS	9,293
INSTITUTION TOTAL	2 21,836			
GREATER ST. LOUIS CITIZENS COMMITTEE FOR NUCLEAR INFORMATION				
PETERSON, MALCOLM L	INFORMATION PROCEDURES IN ENVIRONMENTAL CONTAMINATION	R01ES 00187-02	SSS	50,243
INSTITUTION TOTAL	1 50,243			
INSTITUTE OF MEDICAL EDUCATION AND RESEARCH				
COLE, WILLIAM R	CENTRAL BLOOD AND LYMPH IN THE STUDY OF HUMAN INFECTION	R01AI 08348-01	BM	36,814
NICHOLAS, HAROLD J	LIPIDS OF THE CENTRAL NERVOUS SYSTEM	R01NB 06011-03	MET	61,968
INSTITUTION TOTAL	2 98,782			
JEWISH HOSPITAL OF ST LOUIS				
AVIOLI, LOUIS V	ISOTOPIC STUDIES IN CALCIUM METABOLISM	R01AM 11674-02	GMB	41,672
GASTON, LAMONT W	HEPATIC COAGULATION FACTOR SYNTHESIS	R01HE 11911-01	HEM	34,499
GEE, DAVID A	GENERAL RESEARCH SUPPORT GRANT	S01FR 05491-06	NSS	37,269
GRAFF, RALPH J	STUDIES ON IMMUNOLOGY AND TOLERANCE	R01AI 07437-02	IMB	30,517
JAMISON, REX L	MICROPUNCTURE STUDIES ON THE MAMMALIAN RENAL MEDULLA	R01HE 11806-01	PHY	36,762
KAPLAN, MANUEL E	STRUCTURE AND BIOLOGIC ACTIVITY OF ISOHEMAGGLUTININS	R01AM 12036-02	ALY	30,026
SHEPHERD, DAVID C	DIAGNOSTIC ASPECTS OF ELECTROENCEPHALIC AUDIOMETRY	R01NB 04799-05	CMS	55,099
WESSLER, STANFORD	ROLE OF STASIS AND LIPIDS IN VENOUS THROMBOSIS	R01HE 11470-02	HEM	63,326
INSTITUTION TOTAL	8 329,170			
MISSOURI UNIVERSITY OF				
BERNDT, ALAN F	CRYSTAL STRUCTURES OF MERCURY AMALGAMS	R01DE 02788-01	MCHB	16,321
FRIEDMAN, LAWRENCE D	CHEMICALLY INDUCED VIABILITY EFFECTS IN DROSOPHILA	R01GM 14806-02	GEN	11,633
INSTITUTION TOTAL	2 27,954			
ST. JOHN'S MERCY HOSPITAL				
GERMUTH, FREDERICK G, JR	PATHOLOGY & PATHOGENESIS OF IMMUNE COMPLEX DISEASE	R01AI 08960-01	ALY	42,058
INSTITUTION TOTAL	1 42,058			
ST. LOUIS CITY HOSPITAL				
WITTE, MARLYS H	RENIN-ALDOSTERONE SYSTEM IN LYMPH STUDIES IN MAN	R01HE 11904-01	CVA	30,505
INSTITUTION TOTAL	1 30,505			
ST. LOUIS UNIVERSITY				
BOSE, SUBIR K	CONTROL OF PROTEIN SYNTHESIS AFTER PHAGE INFECTION	R01HD 02120-03	BIO	18,341
CAREY, FRANCIS J	EFFECTS OF ANTICELLULAR ANTIBODY ON VIRUS INFECTION	R01AI 07316-03	VR	46,100
CARUSI, EDWARD A	MOLECULAR STUDIES OF THE DNA OF CARCINOGENIC VIRUSES	R01CA 10196-02	VR	24,958
DITTMER, JOHN C	CHEMISTRY AND METABOLISM OF BRAIN COMPLEX LIPIDS	R01AM 09766-03	PC	33,007
DOISY, EDWARD A, JR	VITAMIN K REQUIREMENT OF MAN	R01HE 11595-01	NTN	49,373
ELLIOTT, WILLIAM H	METABOLISM OF NEUTRAL STEROLS	R01HE 07878-05S1	MET	3,825
ELLIOTT, WILLIAM H	METABOLISM OF NEUTRAL STEROLS	R01HE 07878-06	MET	48,940
FELIX, R H	GENERAL RESEARCH SUPPORT GRANT	S01FR 05388-07	NSS	257,600
FELIX, ROBERT H	THE PROCESSES OF MEDICAL EDUCATION	R21PM 00018-02	HSR	23,986
GERMUTH, FREDERICK G, JR	PATHOLOGY AND PATHOGENESIS OF IMMUNE COMPLEX DISEASE	R01AI 07813-02	ALY	48,971
GREEN, MAURICE	BIOCHEMISTRY OF ANIMAL VIRUS MULTIPLICATION	R01AI 01725-11	VR	101,146
HANLON, C ROLLINS	NEURAL AND ENVIRONMENTAL FACTORS IN CIRCULATORY CONTROL	P01HE 06312-07	HEPB	325,160
HANLON, C ROLLINS	ESTABLISHMENT OF A CARDIOVASCULAR RESEARCH CENTER	R01HE 11465-01A1	HEPB	52,380
HARRISON, JAMES D	GENERAL RESEARCH SUPPORT GRANT	S01FR 05324-07	NSS	39,592
HORWITT, MAX K	NUTRITIONAL VARIABLES IN HUMAN METABOLISM	P02AM 12378-01	AMP	50,000
KIM, YEE S	EFFECT OF HORMONE ON SOLUBLE LIVER PROTEINS	R01AM 11280-02	MET	20,255
KINSELLA, RALPH A, JR	STEROID METABOLISM OF THE FETAL ADRENAL GLAND	R01AM 08970-04	END	25,813
KNIGHT, WILLIAM A, JR	PANCREATIC METABOLISM OF SE75 METHIONINE	R01AM 06300-05S1	GMA	15,782

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INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRG	DOLLARS
MISSOURI—(CON.)				
LONGMORE, WILLIAM J	INTERACTIONS OF CARBOHYDRATE AND LIPID METABOLISM	RO1AM 10602-02	MET	17,066
MARTONOSI, ANTHONY N	THE BIOCHEMISTRY OF MUSCLE	RO1NB 07749-01	MBY	49,259
MATSCHNER, JOHN T	VITAMIN K IN ANIMAL TISSUE	RO1AM 09909-03	NTN	28,480
MATSCHNER, JOHN T	METABOLISM OF VITAMIN K IN ANIMALS	RO1AM 11311-02	NTN	37,208
MC GEE, JAMES F	A HIGH RESOLUTION X-RAY REFLECTION MICROSCOPE	RO1GM 15038-02	SSS	11,042
MC GIFF, JOHN C	POLYPEPTIDES AND THE AUTONOMIC NERVOUS SYSTEM	RO1HE 11041-02	GMB	36,506
NELSON, JAMES S	BIOCHEMICAL STUDIES ON MONOAMINE CONTAINING NEURONS	RO1NB 06807-02	PC	27,179
OLSON, ROBERT E	ACTION OF THE FAT-SOLUBLE VITAMINS & STEROID HORMONES	PO1AM 09992-03	AMP	116,102
OLSON, ROBERT E	LOW PROTEIN NUTRITION AND LIPID METABOLISM IN MAN	RO1AM 09732-03	NTN	57,751
OLSON, ROBERT E	BIOSYNTHESIS OF COENZYME Q	PO1AM 10004-04	PC	27,772
OLSON, ROBERT E	METABOLISM AND CONTRACTILITY OF THE ISOLATED HEART	RO1HE 09772-03	CVA	39,522
OLSON, ROBERT E	ETIOLOGY OF NUTRITIONAL ANEMIAS IN THAILAND	R22AM 11044-02	SSS	343,508
PHILIPPS, GEORG R	MECHANISM OF PROTEIN SYNTHESIS	RO1GM 13364-02	BIO	23,440
PINKERTON, HENRY	BIOLOGIC STUDIES OF ONCOGENIC VIRAL NEODANTIGENS	RO1CA 10630-01	PTHB	14,185
SENAY, LEO C, JR	TEMPERATURE REGULATION, DEHYDRATION AND HEAT STRESS	RO1HE 07075-06	CVA	21,099
SLAVIN, RAYMOND G	STUDIES ON DELAYED HYPERSENSITIVITY	RO1AI 07303-02	ALY	20,412
SMITH, KENNETH R, JR	SENSORY RECEPTORS IN SKIN	RO1NB 06849-02	CMS	29,401
STRICKBERGER, MONROE W	POPULATION GENETICS OF DROSOPHILA	RO1GM 11956-03S1	GEN	1,236
STRICKBERGER, MONROE W	POPULATION GENETICS OF DROSOPHILA	RO1GM 11956-05	GEN	9,745
SURIANO, J ROBERT	PROTEIN STRUCTURE AND FUNCTION IN ONCOGENIC VIRUSES	RO1CA 10803-01	VR	53,417
TAYLOR, JOHN J	ULTRASTRUCTURAL STUDY OF OSTEOLATHYRISM	RO1AM 11663-02	PTHA	12,788
THAYER, SIDNEY A	BIOSYNTHESIS OF PYRIMIDINES	RO1AM 05084-07	MET	20,953
TRUPIN, JOEL S	PHYSIOLOGICAL ROLES OF TRANSFER RIBONUCLEIC ACIDS	RO1GM 15400-01	BIO	19,035
VAN KLEY, HAROLD	GROWTH AND ARYLSULFATASE OF ASPERGILLUS ORYZAE	RO1CA 06051-06S1	MBC	8,604
WEBER, ANNEMARIE A	MECHANISM OF CONTRACTION AND RELAXATION OF MUSCLE	RO1GM 14034-03	PHY	45,639
WEBER, MORTON M	ELECTRON TRANSPORT IN MICROORGANISMS	RO1AI 03046-09	PC	26,445
WEGRIA, RENE	CAUSES AND MECHANISMS OF CARDIAC FAILURE	RO1HE 04532-09	CVB	32,859
WEGRIA, RENE	DETERMINANTS OF LYMPH FORMATION AND EVACUATION	RO1HE 09031-04	CVA	26,815
WITZLEBEN, CAMILLUS L	A VALUABLE NEW EXPERIMENTAL MODEL TO STUDY CHOLESTASIS	RO1AM 12679-01	PTHA	16,363
YEAGER, VERNON L	HISTOCHEMICAL EFFECTS OF BAPN	RO1AM 12403-01	PTHA	4,000
YOUNG, PAUL A	ELECTRON MICROSCOPY OF NUTRITIONAL ENCEPHALOPATHY	RO1NB 06918-02	PTHA	23,553
INSTITUTION TOTAL	49	2,386,613		
WASHINGTON UNIVERSITY				
AACH, RICHARD D	EFFECT OF CORTICOSTEROIDS ON BILIRUBIN METABOLISM	RO1AM 10349-02S1	GMA	5,752
ACKERMAN, LAUREN V	LUNG CANCER RADIOTHERAPY AND SURGERY CLINICAL TRIAL	RO1CA 06747-06	RAD	20,659
APIRION, DAVID	GENETIC & STRUCTURAL STUDIES OF E COLI RIBOSOMES	RO1HD 01956-02S1	BIO	18,850
APIRION, DAVID	GENETIC AND STRUCTURAL STUDIES OF E COLI RIBOSOMES	RO1HD 01956-03	BIO	42,984
BACHMANN, FEDOR W	STUDIES ON PLASMINOGEN ACTIVATORS	RO1AM 09047-04	HEM	22,706
BALLINGER, WALTER F, II	STUDIES IN GASTROINTESTINAL PHYSIOLOGY	RO1AM 12333-01	SGYB	25,207
BALLINGER, WALTER F, II	STUDIES IN GASTROINTESTINAL PHYSIOLOGY	RO1AM 12333-02	SGYB	60,054
BECKER, BERNARD	GLAUCOMA CLINICAL RESEARCH CENTER	PO1NB 06817-02	NBPB	239,419
BECKER, BERNARD	THE AQUEOUS HUMOR	RO1NB 00621-14	VIS	92,432
BECKER, BERNARD	STUDIES ON VISUAL FUNCTION	RO1NB 03639-06	SRC	87,445
BECKER, BERNARD	BIOCHEMICAL STUDIES IN NORMAL AND CATARACTOUS LENSES	RO1NB 07393-01	VIS	29,111
BIRD, JOHN T	GENERAL RESEARCH SUPPORT GRANT	SO1FR 05325-07	NSS	38,474
BRICKER, NEAL S	RENAL DISEASE	RO1AM 09976-03	AMP	177,260
BRINKER, RAY A	COMPOUND SCAN ULTRASONOGRAPHY OF THE BRAIN	RO1NB 06059-04	SSS	39,170
BROWN, DAVID H	METABOLISM OF POLYSACCHARIDES	RO1GM 04761-12	MET	68,040
BURTON, ROBERT M	BIOSYNTHESIS AND METABOLISM OF GALACTOLIPIDS	RO1NB 01575-11	PC	28,680
BUTCHER, HARVEY R, JR	PHYSIOLOGY AND TREATMENT OF SHOCK	RO1HE 10389-03	SGYB	42,438
CATE, THOMAS R	PULMONARY FUNCTION IN VIRUS AND MYCOPLASMA INFECTIONS	RO1AI 07950-02	VR	30,277
CHAPLIN, HUGH, JR	SYMPTOMATIC HEMOLYTIC ANEMIA IN MALIGNANT DISEASE	RO1CA 02918-12	HEM	19,121
CHILSON, OSCAR P	COMPARATIVE ENZYMOLOGY OF NUCLEOTIDE METABOLISM	RO1AM 09784-03	BIO	23,378
CLARK, SAM L, JR	CELLULAR DIFFERENTIATION INDUCED BY ENVIRONMENT	RO1GM 07176-08	ALY	29,386
COBEN, LAWRENCE A	ASSESSING THE RATE OF CSF FLOW FROM A SINGLE CSF SAMPLE	RO1NB 04296-06	NEUB	15,597
COHEN, ADOLPH I	CYTOLOGY AND PHYSIOLOGY OF THE RETINA	RO1NB 04816-05	VIS	51,923
COLLINS, JOHN A	PULMONARY FUNCTIONS IN THE INJURED PATIENT	RO1GM 16082-01	SGYB	62,741
COMMONER, BARRY	CENTER FOR THE BIOLOGY OF NATURAL SYSTEMS	PI0ES 00139-03	SSS	545,412
COMMONER, BARRY	PHYSICAL MECHANISMS OF BIOLOGICAL ELECTRON TRANSPORT	RO1CA 03983-10S1	BBCB	6,752
COMMONER, BARRY	PHYSICAL MECHANISMS OF BIOLOGICAL ELECTRON TRANSPORT	RO1CA 03983-11	BBCB	99,860
CONSTANT, MARGUERITE A	LENS IN HEALTH AND DISEASE	RO1NB 01375-11	VIS	42,379
CORDONNIER, JUSTIN J	EVALUATION OF CYSTECTOMY AND ILEAL LOOP DIVERSION	RO1CA 09673-09	SGYB	5,403
CSAPO, ARPAD I	THE MECHANISM OF MYOMETRIAL FUNCTION AND REGULATION	RO1HD 01478-05	HED	50,568
DANFORTH, WILLIAM H	PHYSIOLOGIC ROLE OF GLYCOGEN PHOSPHORYLASE	RO1AM 07990-05	PC	33,797
DAUGHADAY, WILLIAM H	HORMONAL CONTROL OF CHONDROITIN SULFATE SYNTHESIS	RO1AM 01526-12	END	44,103
DAUGHADAY, WILLIAM H	THE RELATION OF TREATMENT TO DIABETIC COMPLICATIONS	RO1AM 06737-06	SSS	50,291
DAUGHADAY, WM H	THE MEASUREMENT OF PROTEIN HORMONES IN PLASMA	RO1AM 05105-07	END	53,462
DIETZLER, DAVID N	CONTROL OF BACTERIAL GLYCOGEN METABOLISM	RO1AM 10766-02	BIO	12,372
DRYSDALE, GEORGE R	MECHANISM OF PYRIDINE NUCLEOTIDE OXIDATIONS	RO1CA 03980-11	BIO	18,000
EISEN, ARTHUR Z	MECHANISMS OF CONNECTIVE TISSUE DEGRADATION	RO1AM 12129-01	GMA	115,071
EISEN, HERMAN N	INTRACELLULAR ANTIBODIES AND ALLERGIC SKIN REACTIONS	RO1AI 03231-09	ALY	69,182
ELIASSON, SVEN G	NERVE METABOLISM AND FUNCTION IN ALLOXAN DIABETES	RO1NB 05204-05	MET	26,580

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INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRG	DOLLARS
MISSOURI—(CON.)				
ENDERS, ALLEN C	DEVELOPMENT AND CYTOLOGY OF THE PLACENTA	RO1HD 02613-02	HED	36,469
ENOCH, JAY M	THE ETIOLOGY OF REDUCED VISUAL FUNCTION	RO1NB 02168-09	VIS	52,652
FERGUSON, THOMAS B	PREOPERATIVE RADIOTHERAPY LUNG CANCER STUDY	RO1CA 08701-02S1	SRC	2,231
FERGUSON, THOMAS B	PREOPERATIVE RADIOTHERAPY LUNG CANCER STUDY	RO1CA 08701-03	RAD	5,940
FLEISCHMAN, JULIAN B	STRUCTURAL STUDIES ON 7S AND 19S GAMMA-GLOBULIN	RO1AM 09846-03	ALY	15,304
GELLER, DAVID M	PHOTOPHOSPHORYLATION IN BIOLOGICAL SYSTEM	RO1GM 07023-09	PC	18,451
GOLDRING, SIDNEY	BIOELECTRIC STUDIES OF CEREBRAL CORTEX	RO1NB 06947-03	NEUA	28,179
GOLDSTEIN, MILTON N	DRUG RESISTANCE IN HYBRIDIZED MAMMALIAN CELLS	RO1CA 10755-01	PHRB	36,110
GRAHAM, HELEN TREDWAY	PRODUCTION, BINDING AND ACTIONS OF HISTAMINE	RO1HD 01001-20	PHRA	21,697
GREEN, WILLIAM L	BIOCHEMICAL FACTORS IN THYROID HORMONE FORMATION	RO1AM 10205-03	END	32,072
GREIDER, MARIE H	CELLULAR LOCALIZATION OF GASTRIN	RO1AM 13205-01	PTHB	17,378
GRISHAM, JOE W	FEEDBACK MEDIATORS CONTROLLING DNA SYNTHESIS IN LIVER	RO1AM 07568-05	PTHB	25,685
GUTSCHE, C DAVID	THE CHEMISTRY OF THE ORIENTED MOLECULE	RO1AM 02398-11	MCHA	31,800
HAMBURGER, VIKTOR	NEUROGENESIS AND DEVELOPMENT OF BEHAVIOR	RO1NB 05721-04	CBY	76,667
HARFORD, CARL G	INFLUENCE OF METHISAZONE ON VIRAL STRUCTURE	RO1AI 08535-01	VR	21,032
HARTROFT, PHYLLIS M	THE JUXTAGLOMERULAR COMPLEX	RO1AM 11061-03	PTHA	69,122
HAZZARD, GEORGE W	BIOMEDICAL SCIENCES SUPPORT	S05FR 07054-03	NSS	71,138
HELMREICH, ERNST	ACTIVATION OF GLYCOLYSIS DURING MUSCLE CONTRACTION	RO1AM 09242-04	PC	48,480
HOLLOSZY, JOHN O	EXERCISE INDUCED BIOCHEMICAL AND ANATOMICAL ADAPTATIONS	RO1HD 01613-04	AFY	43,724
HOLTZER, ALFRED M	MOLECULAR CONFIGURATION OF MYOSIN AND ACTIN	RO1GM 05488-11	BBCB	49,708
HORTMANN, ALFRED G	INVESTIGATIONS IN THE TERPENE AREA	RO1GM 13441-03	MCHA	18,653
HUNT, CARLTON C	SOMATIC RECEPTORS AND SPINAL CORD FUNCTION	RO1NB 07907-01	PHY	30,150
HUNTER, F EDMUND, JR	OXIDATION, PHOSPHORYLATION, & STRUCTURE OF MITOCHONDRIA	RO1AM 11673-01	BIO	50,305
HUNTER, F EDMUND, JR	ORGANIC NITRATES-ACTION AND TRANSFORMATION	RO1HE 10107-03	BIO	15,277
JARETT, LEONARD	ENDOCRINE CONTROL OF PROTEIN SYNTHESIS	RO1AM 11892-01	MBY	28,511
KAYES, JACK	TRABECULAR MESHWORK OF EYE	RO1NB 05550-04	VIS	13,257
KENNEL, DAVID E	CELLULAR REGULATION OF PROTEIN SYNTHESIS	RO1GM 09830-07	BIO	19,624
KING, LUCY J	CHEMICAL CHANGES IN BRAIN DURING CONVULSIONS	RO1NB 07208-02	NEUB	27,158
KING, M KENTON	GENERAL RESEARCH SUPPORT GRANT	S01FR 05389-07	NSS	354,221
KINSKY, STEPHEN C	MEMBRANE STRUCTURE AND POLYENE ANTIBIOTICS	RO1AI 05114-06	MBC	28,385
KIPNIS, DAVID M	GENERAL CLINICAL RESEARCH CENTER	M01FR 00036-08	CLR	842,014
KIPNIS, DAVID M	TRANSPORT PROCESSES IN MAMMALIAN CELLS	RO1AM 01921-11	MET	63,010
KIRK, JOHN E	METABOLISM OF ARTERIAL TISSUE	RO1HE 00891-16S1	PC	2,521
KOBAYASHI, GEORGE S	IMMUNOCHEMISTRY OF HISTOPLASMIN ANTIGENS	RO1AI 06213-04	BM	28,519
KOBAYASHI, GEORGE S	RENAL CANDIDIASIS IN EXPERIMENTAL RABBIT INFECTION	RO1AI 08531-01	BM	11,486
KOEHLER, P RUBEN	LYMPHATIC RADIOTHERAPY THRU AN ISOLATED INFUSION CYCLE	RO1CA 10164-02	RAD	18,856
KORNFELD, STUART A	AMINOSUGAR METABOLISM IN LIVER & TISSUE CULTURE CELLS	RO1CA 08759-02	MBY	43,846
KUHLMAN, ROBERT E	MICROCHEMICAL STUDY OF EPIPHYSEAL BIOCHEMISTRY	RO1AM 03513-09	MET	38,768
LAATSCH, ROBERT H	EXPERIMENTAL NEURONAL DEGENERATION	RO1NB 07525-01	PTHA	26,732
LACY, PAUL E	ELECTRON MICROSCOPY OF ISLET CELLS	RO1AM 01226-12	PTHA	97,261
LACY, PAUL E	MICROENZYMATIC STUDIES OF ISLETS OF LANGERHANS	RO1AM 03373-09	PC	19,086
LACY, PAUL E	STUDIES ON INSULIN INHIBITORS IN THE SERUM	RO1AM 06181-07	MET	56,407
LACY, PAUL E	EXPERIMENTAL PATHOLOGY	RO1GM 08574-06	PTHB	96,596
LEVI-MONTALCINI, RITA	STUDY OF THE NGF AND IMMUNOSYPHACTOMIZED ANIMALS	RO1NB 03777-05S1	NEUB	528
LEVI-MONTALCINI, RITA	STUDY OF NGF AND OTHER BIOLOGICALLY ACTIVE PROTEINS	RO1NB 03777-06	NEUB	70,589
LIPKIN, DAVID	THE CHEMISTRY OF NUCLEOSIDE POLYPHOSPHATES	RO1CA 03870-10S1	MCHA	259
LIPKIN, DAVID	THE CHEMISTRY OF NUCLEOSIDE POLYPHOSPHATES	RO1CA 03870-11	MCHA	31,238
LITTLE, J RUSSELL, JR	ROLE OF NUCLEIC ACIDS IN ANTIBODY SYNTHESIS	RO1AI 07951-02	ALY	24,187
LOEB, VIRGIL, JR	COOPERATIVE GROUP STUDIES IN CANCER CHEMOTHERAPY	RO1CA 03376-12	SRC	33,558
LOWRY, OLIVER H	QUANTITATIVE HISTOCHEMISTRY OF THE RETINA	RO1NB 00434-15	MBY	17,353
LOWRY, OLIVER H	REGULATORS OF METABOLISM IN THE NERVOUS SYSTEM	RO1NB 01352-12	NEUB	46,147
MAJERUS, PHILIP W	THE MECHANISM AND CONTROL OF FATTY ACID SYNTHESIS	RO1AM 10550-03	PC	4,700
MAROVITZ, WILLIAM F	METABOLISM OF BONY OTIC CAPSULE	RO1NB 01791-10	CMS	42,778
MARSHALL, GARLAND R	SYNTHESIS OF GLUCAGON BY THE SOLID-PHASE METHOD	RO1AM 10836-02	MCHB	17,133
MATHEWS, F SCOTT	X-RAY STUDIES OF ENZYME STRUCTURE	RO1GM 13925-03	BBC	35,818
MATSCHINSKY, FRANZ M	GLYCOLYSIS & HORMONE RELEASE BY ISLET CELLS	RO1AM 10591-03	MET	28,873
MATSCHINSKY, FRANZ M	ENERGY METABOLISM OF AUDITORY SENSORY STRUCTURES	RO1NB 08000-01	CMS	38,546
MC DOUGAL, DAVID B, JR	COMPARATIVE AND EMBRYOLOGICAL NEUROCHEMISTRY	RO1NB 06800-02	NEUB	30,453
MC GAVRAN, MALCOLM H	HOST VIRUS RELATIONS OF THE SALIVARY GLAND VIRUS	RO1AI 00158-18	VR	13,790
MC GAVRAN, MALCOLM H	ANTIGENIC DETERMINANTS OF THE CYTOMEGALOVIRUSES	RO1HD 02432-02	VR	29,943
MC GUIGAN, JAMES E	MECHANISMS OF IMMUNE PHENOMENA IN GASTROENTEROLOGY	RO1AM 10837-02	ALY	10,579
MENTON, DAVID N	EFFECT OF ESSENTIAL FATTY ACID DEFICIENCY ON SKIN	RO1AM 11908-01	GMA	22,201
MOOG, FLORENCE	FUNCTIONAL DIFFERENTIATION OF SMALL INTESTINE	RO1HD 03490-14	CBY	34,036
MOORE, BLAKE W	FRACTIONATION OF BRAIN PROTEINS	RO1NB 05270-05	BIO	28,930
MOORE, CARL V	ERYTHROPOIESIS AND IRON METABOLISM	RO1HE 00022-22	HEM	137,718
MOSES, ROBERT A	FACTORS AFFECTING INTRAOCULAR PRESSURE	RO1NB 04774-04S1	VIS	1,047
MOSES, ROBERT A	FACTORS AFFECTING INTRAOCULAR PRESSURE	RO1NB 04774-05	VIS	43,110
NARAHARA, HIROMICHI T	REGULATION OF GLUCOSE METABOLISM IN MUSCLE	RO1AM 04082-09	PHY	33,823
NEEDLEMAN, PHILIP	MECHANISM OF ACTION AND METABOLISM OF ORGANIC NITRATES	RO1HE 11771-01	PHRA	33,405
O LEARY, JAMES L	COORDINATED BASIC AND CLINICAL BRAIN RESEARCH PROGRAM	PD1NB 04513-05	NBPA	217,919
O LEARY, JAMES L	AN INTERDISCIPLINARY STROKE PROGRAM	PD1NB 06833-02	NBP	327,514
OGURA, JOSEPH H	PHYSIOLOGIC RELATIONSHIP OF UPPER & LOWER AIRWAYS	RO1HE 10237-03	CMS	49,490
OGURA, JOSEPH H	PHYSIOLOGY OF DEGLUTITION AND VOICE IN LARYNX ANALOG	RO1NB 06200-03	CMS	112,467

TABLE 2—RESEARCH GRANTS, BY AREA, INSTITUTION, AND PRINCIPAL INVESTIGATOR

INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRG	DOLLARS
MISSOURI—(CON.)				
OKUN, EDWARD	EXPERIMENTAL RETINAL PATHOLOGY	RO1NB 01789-10	VIS	47,604
OLIVER, G CHARLES, JR	A SENSITIVE RADIOIMMUNOASSAY FOR DIGITALIS	RO1HE 11233-02	ALY	23,046
OSTERLAND, C KIRK	IMMUNOCHEMICAL STUDIES ON MACROGLOBULIN ANTIBODIES	RO1AM 08490-05	ALY	25,965
PAKE, GEORGE	ADVANCEMENT OF THE SCIENCES FUNDAMENTAL TO RESEARCH AND	S04FR 06115-02	NSS	590,000
PAKE, GEORGE E	A RESOURCE FOR BIOMEDICAL COMPUTING	P07FR 00396-01	SSS	1,420,424
PARKER, CHARLES W	ANTIBODY RESPONSE TO DEFINED ANTIGENIC DETERMINANTS	RO1AI 04646-07	ALY	36,476
PERRY, H MITCHELL, JR	ACTIVATION AND REACTIONS OF COAGULATION FACTOR X	RO1AM 07507-05S1	HEM	15,626
PERKOFF, GERALD T	MUSCLE DISEASE IN ALCOHOLISM AND OTHER DISORDERS	RO1AM 10062-03	PTHA	11,299
PERKOFF, GERALD T	MYOGLOBIN AND NEUROMUSCULAR DISEASE	RO1NB 07408-05	NEUB	52,216
PERRY, H MITCHELL, JR	TRACE METAL CONTENT OF HUMAN TISSUE	RO1AM 07507-05S1	PTHB	3,897
PERRY, H MITCHELL, JR	TRACE METALS IN CARDIOVASCULAR DISEASE	RO1HE 02577-11S1	GMB	6,917
PERRY, H MITCHELL, JR	TOXICITY TO AND PHARMACOLOGY OF HYDRALAZINE	RO1HE 10906-02S1	TOX	342
PERRY, H MITCHELL, JR	TOXICITY TO AND PHARMACOLOGY OF HYDRALAZINE	RO1HE 10906-03	TOX	18,392
PFEIFFER, RUSSELL R	SPIKE DISCHARGE MECHANISMS OF THE COCHLEAR NUCLEUS	RO1NB 07498-01	CMS	47,691
PICKARD, WILLIAM F	PROPERTIES OF ELECTRICALLY EXCITABLE MEMBRANES	RO1NB 07031-02	PHY	15,694
PIERCE, JOHN A	LUNG STRUCTURE AND FUNCTION IN PULMONARY EMPHYSEMA	RO1HE 11683-01	CVA	18,239
PITTS, FERRIS N, JR	BIOCHEMISTRY OF THE GAMMA-AMINOBUTYRATE PATHWAY	RO1NB 06043-04	BIO	43,345
POWERS, WILLIAM E	CLINICAL CANCER RADIATION THERAPY CENTER	P02CA 10435-02	SSS	301,073
PREMACHANDRA, B N	THYROID ROLE IN THYROGLOBULIN IMMUNITY	RO1AM 07676-05	IMB	17,011
ROOS, ALBERT	CLINICAL AND EXPERIMENTAL RESEARCH IN RESPIRATION	RO1HE 00082-19	PHY	49,292
SCHLESINGER, MILTON J	FORMATION AND LOCALIZATION OF ALKALINE PHOSPHATASE	RO1AI 08593-01	MCB	36,687
SCHLESINGER, SONORA	REGULATION OF ENZYME SYNTHESIS AND OF ENZYME ACTIVITY	RO1AM 09226-04	MCB	33,169
SCHLESSINGER, DAVID	COMPOSITION OF PROTEIN-FORMING E COLI RIBOSOME	RO1GM 10447-06	BIO	38,584
SCHOEFFLE, GORDON M	MEMBRANE POTENTIAL CHANGES IN SINGLE FIBERS	RO1NB 00173-17	PHY	13,158
SCHULTZ, IRWIN	A LABORATORY MODEL OF HSV SKIN INFECTION	RO1AI 07593-02	GMA	18,521
SHANK, ROBERT E	DIET AND ENZYME ACTIVITY WITHIN THE HEPATIC LOBULE	RO1AM 06309-07	MET	39,631
SHERMAN, WILLIAM R	STRUCTURE AND METABOLISM OF SPHINGOLIPIDS	RO1NB 05159-05	NEUB	30,440
SHERRY, SOL	ENZYME FACTORS INFLUENCING INTRAVASCULAR FIBRINOLYSIS	RO1HE 03745-11	HEM	87,214
SILBERBERG, RUTH	PATHOGENESIS OF OSTEOARTHRITIS	RO1AM 04213-07	GMA	35,923
SILVER, SIMON D	BIOCHEMISTRY OF MEMBRANE MUTANTS OF ESCHERICHIA COLI	RO1AI 08062-01	MBY	49,960
SLEATOR, WILLIAM W	ANALYSIS OF ACTIVATION PROCESS IN HEART MUSCLE	RO1HE 11903-13	PHY	33,232
SLY, WILLIAM S	DNA TRANSCRIPTION AND THE REGULATION OF GENE ACTION	RO1GM 11905-05	PC	31,666
SMITH, CARL H	PERINATAL REGULATION OF PROTEIN FORMATION	RO1HD 02182-03	MET	16,843
SMITH, CATHERINE A	CYTOLOGY, BIOCHEMISTRY & PHYSIOLOGY OF THE INNER EAR	RO1NB 00966-12	CMS	52,900
SMITH, JOHN R	CIRCULATORY REGULATION AND MYOCARDIAL CONTRACTION	P01HE 11034-02	HEPB	268,454
SORENSEN, GEORGE D	ELECTRON MICROSCOPY OF LYMPHOID TISSUES	RO1AI 04889-09	PTHB	42,740
SORENSEN, GEORGE D	MYELOMA CELLS IN TISSUE CULTURE	RO1CA 08178-04	VR	53,058
SPRATT, JOHN S, JR	BIOMETRY OF COLONIC AND RECTAL NEOPLASMS	RO1CA 09741-09	EDC	16,967
STERLING, THEODOR D	OPTIMIZING AUTOMATED RADIATION TREATMENT PLANNING	RO1CA 10208-03	COM	39,515
STEWART, MARK A	BIOCHEMISTRY OF THE DEVELOPING NERVOUS SYSTEM	RO1NB 05463-04	BIO	40,506
STRIITMATTER, PHILIPP	A STUDY OF MAMMALIAN CYTOCHROMES AND REDUCTASES	RO1HE 05514-08	PC	38,855
STROUD, MALCOLM H	EVALUATION OF SOME CENTRAL & PERIPHERAL VEST MECHANISMS	RO1NB 06563-02	CMS	52,658
SUNTZEFF, VALENTINA	ULTRASTRUCTURE OF THE AGING BRAIN	RO1NB 06799-02	NEUB	19,222
SUNTZEFF, VALENTINA	ULTRASTRUCTURE OF THE AGING BRAIN	RO1NB 07874-01	NEUA	28,186
TER-POGOSSIAN, MICHEL M	CYCLOTRON PRODUCED ISOTOPES IN BIOLOGY AND MEDICINE	P01GM 14889-06	GMP	201,567
TERNBERG, JESSIE L	FREE RADICALS IN PATHOLOGIC PROCESSES	RO1CA 06703-06	PC	28,176
THALMANN, RUEDIGER	METABOLIC PROCESSES OF THE INNER EAR	RO1NB 06575-02	CMS	62,231
THURSTON, JEAN H	EFFECTS OF ANOXIA ON BRAIN METABOLISM IN THE NEWBORN	RO1NB 06163-02S1	MET	1,118
THURSTON, JEAN H	EFFECTS OF ANOXIA ON BRAIN METABOLISM IN THE NEWBORN	RO1NB 06163-03	MET	29,050
TOLMACH, L J	EFFECTS OF X-RAYS ON NORMAL AND MALIGNANT CELLS	RO1CA 04483-10	MBY	81,289
TROTTER, MILDRED	DEVELOPMENT OF SKELETAL WEIGHTS IN CHILDREN	RO1HD 02619-02	GMB	42,378
UTIGER, ROBERT D	THYROID STIMULATING HORMONES IN HUMAN PLASMA	RO1AM 08630-04	END	51,602
VAGELOS, PINDAROS R	ENZYMATIC MECHANISMS IN LIPID METABOLISM	RO1HE 10406-03	PC	140,210
VIETTI, TERESA J	SOUTHWEST CANCER CHEMOTHERAPY STUDY	R10CA 05587-08	SRC	119,655
WANN, DONALD F	COMPUTER CORRECTION AND DISPLAY OF RADIOISOTOPE SCANS	RO1GM 15447-01	RAD	28,309
WEISSMAN, SAMUEL I	MAGNETIC RESONANCE IN BIOCHEMICAL APPLICATIONS	RO1GM 13205-04	BBC	42,750
WETTE, REIMUT	MATHEMATICAL BIOLOGY OF NEOPLASTIC GROWTH	RO1CA 10702-01	SSS	16,013
WIEST, WALTER G	EXTRAHEPATIC METABOLISM OF STEROIDS	RO1AM 09125-05	END	78,255
WILLIAMSON, JOSEPH R	CELLULAR MECHANISMS OF LIPID TRANSPORT	RO1AM 07728-05	PTHB	33,019
WINDSOR, CHARLES E	RETINAL ILLUMINATION, IMAGERY, AND NYSTAGMUS	RO1NB 06526-03	VIS	21,308
INSTITUTION TOTAL	172	11,436,518		
SPRINGFIELD				
SOUTHWEST MISSOURI STATE COLLEGE				
WILBUR, JAMES M, JR	NEW TYPES OF ALKYLATING AGENTS	RO1CA 08825-02	MCHA	5,460
INSTITUTION TOTAL	1	5,460		
STATE TOTAL	320	17,985,873		
MONTANA				
BOZEMAN				
MONTANA STATE UNIVERSITY				
CAUGHLAN, CHARLES N	THE STRUCTURES OF ORGANIC PHOSPHATES	RO1GM 08395-07	MCHB	39,471

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INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRG	DOLLARS
MONTANA—(CON.)				
FIREHAMMER, BURTON D	BACTERIOPHAGE OF VIBRIO FETUS	R01AI 06376-03S1	BM	6,714
HAMILTON, RICHARD I	COMBINATIONS OF DIFFERENT PLANT VIRUS COMPONENTS	R01GM 11192-04S1	VR	105
JUTILA, JOHN W	STUDIES ON THE PATHOGENESIS OF WASTING DISEASES	R01AI 06552-04	IMB	17,840
LOZANO, EDGARDO A	STUDIES ON NEONATAL ENTERITIS	R01AI 07474-02	BM	46,017
NEWMAN, FRANK S	PHAGE-HOST RELATIONSHIPS IN VIBRIO CHOLERAE	R01AI 09016-01	BM	10,550
PEPPER, J H	POPULATION STRESS AND EMBRYONIC ENDOCRINE ACTIVITY	R01HD 02028-06	TMP	27,755
ROBBINS, JOHN E	STRUCTURAL SUBUNITS OF ENZYMES AND THEIR FUNCTION	R01GM 15788-01	BBCB	26,215
INSTITUTION TOTAL	8 174,667			
GREAT FALLS				
WESTERN FOUNDATION FOR CLINICAL RESEARCH				
STIMPFING, JACK H	THE HISTOCOMPATIBILITY ANTIGENS OF THE MOUSE	R01AI 06525-04	IMB	33,817
INSTITUTION TOTAL	1 33,817			
HELENA				
HOLTER RESEARCH FOUNDATION				
GLASSCOCK, WILFORD R	CARDIAC STUDIES WITH CONTINUOUS ECG MONITORS	R01HE 02614-11	CVB	24,506
INSTITUTION TOTAL	1 24,506			
MISSOULA				
MONTANA UNIVERSITY OF				
BROWMAN, LUDVIG G	NEUROSECRETION, REPRODUCTION AND MICROPTHALMIA	R01NB 06676-02	NEUA	14,355
CANHAM, DONALD H	SELECTIVE PHOSPHORUS INHIBITORS OF HYDROLYTIC ENZYMES	R01AI 07216-03	MCHB	6,945
FESSENDOEN, RALPH J	THE DETOXICATION OF ORGANOSILICON COMPOUNDS	R01GM 15860-01	PHRA	24,236
FEVOLD, H RICHARD	THE REGULATION OF THE ADRENAL STEROID SECRETORY PATTERN	R01AM 08386-05	END	31,640
LARSON, CARL L	IMMUNOLOGY OF ACID FAST BACILLI	R01AI 05370-06	SSS	60,384
NAKAMURA, MITSURU	GROWTH OF TRYPANOSOMA CRUZI IN A DEFINED MEDIUM	R01AI 07083-03	TMP	11,850
NAKAMURA, MITSURU	PATHOGENICITY OF SHIGELLA	R01AI 07668-02	BM	4,517
PFEIFFER, EGBERT W	URINE CONCENTRATION AND UREA EXCRETION IN MAMMALS	R01AM 11342-02	PHY	7,372
INSTITUTION TOTAL	8 161,299			
STATE TOTAL	18 394,289			
NEBRASKA				
BLAIR				
DANA COLLEGE				
LEHMER, DONALD J	SMALLPOX EPIDEMICS AMONG THE MISSOURI VALLEY INDIANS	R01LM 00475-01S1	HLS	3,000
INSTITUTION TOTAL	1 3,000			
LINCOLN				
NEBRASKA UNIVERSITY OF				
BAUMGARTEN, HENRY E	CHEMISTRY OF ORGANIC NITROGEN COMPOUNDS	R01GM 13122-03	MCHB	27,348
BORCHERS, RAYMOND	RAW SOYBEAN GROWTH INHIBITOR	R01AM 02018-08	NTN	19,200
CROMWELL, NORMAN H	STUDIES IN HETEROCYCLIC SYNTHESIS	R01CA 02931-12	MCHB	42,878
DE SHAZER, DOUGLAS O	SURFACE CHEMISTRY OF HYDROXYLAPATITE	R01DE 01996-06	DEN	16,493
FOX, HAZEL M	EVALUATION OF CEREAL PROTEINS FOR MAN	R01AM 08846-04	NTN	27,897
IRELAND, R L	GENERAL RESEARCH SUPPORT GRANT	S01FR 05327-07	NSS	29,797
JOHNSTON, ROBERT B	THE METABOLISM OF THIOL ESTERS OF AMINO ACIDS	R01HE 02970-11S1	BIO	6,057
REED, NORMAN D	PATHOGENESIS OF BACTERIN-INDUCED WASTING DISEASE	R01AI 08335-01	BM	8,331
REED, NORMAN D	IMMUNOLOGIC CAPACITY FOLLOWING NEONATAL SPLENECTOMY	R01AI 08506-01	IMB	10,380
ROSE, KENNETH D	TELEMETERING OF CARDIAC FUNCTION IN SPORTS	R01HE 06402-07	AFY	5,872
ROSE, KENNETH D	FACTORS AFFECTING LIPID STORAGE IN VITRO	R01HE 08769-03S1	MET	3,907
SCHMEHL, FRANCIS L	BIOMEDICAL SCIENCES SUPPORT	S05FR 07055-03	NSS	39,439
SHAHANI, KHEM M	ISOLATION AND STUDY OF HUMAN AND BOVINE MILK LYSOZYME	R01HD 00858-06	BIO	13,946
STABA, EMIL J	PRODUCTION OF MEDICINALS BY PLANT SUSPENSION CULTURES	R01GM 13440-02	MCHA	27,556
THOMPSON, THOMAS L	BACTERIOCINS OF THERMOPHILIC BACILLI	R01AI 07362-02	MCB	7,624
THORSON, THOMAS B	OSMOREGULATION	R01HE 09075-04	PHY	23,453
UNDERDAHL, NORMAN R	THE EPIZOOTIOLOGY OF EXUDATIVE EPIDERMITIS OF PIGS	R01AI 07667-02	BM	17,220
WEINSTEIN, SAM	MANDIBULAR FUNCTIONAL MODELING AND CRANIAL BASE GROWTH	R01HD 02281-03	DEN	34,041
WHEELER, DESMOND M	GENERAL SYNTHESIS OF DITERPENOID ACIDS	R01CA 05796-08	MCHA	26,168
INSTITUTION TOTAL	19 387,607			
OMAHA				
CREIGHTON UNIVERSITY				
BRODY, ALFRED W	CIRCULATORY VOLUME AND LUNG TISSUE VOLUME	R01HE 09099-04	CVA	34,024
EGAN, RICHARD L	GENERAL RESEARCH SUPPORT GRANT	S01FR 05390-07	NSS	115,337
FISHKIN, ARTHUR F	THE GLYCOPROTEIN COMPOSITION OF VEINS	R01HE 12406-01	PC	14,604
GAMBAL, D	SERUM FACTOR INVOLVED IN CALCIFICATION	R01AM 12634-01	GMB	20,369
HALKIAS, DEMETRIOUS G	INTERACTIONS BETWEEN ENTERIC ORGANISMS & SHIGELLA	R01AI 07148-02	BM	12,616
HEANEY, ROBERT P	CREIGHTON UNIVERSITY BONE RESEARCH CENTER	P02AM 07912-05	AMP	57,735
HILL, MARVIN F	VARIED AGE IN SUBMAXILLARY REGENERATION ENZYME STUDY	R01HD 00180-06	DEN	20,603
KRAMAR, JENO L	CAPILLARY RESISTANCE AND THE ENDOCRINES	R01HE 01151-16	CVA	33,397
MAGEE, DONAL F	STUDIES OF PANCREATIC FUNCTION	R01AM 10285-04	GMA	37,853

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INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRG	DOLLARS
NEBRASKA—(CON.)				
MILLER, FLETCHER A	BILE DRAINAGE AND SERUM CHOLESTROL	RO1HE 09354-03S1	SGYB	4,840
NIEMER, WILLIAM T	INFLUENCE OF TELENCEPHALON ON HYPOTHALAMUS	RO1NB 01046-13	NEUA	42,574
SHADY, RAYMOND W	GENERAL RESEARCH SUPPORT GRANT	SO1FR 05326-07	NSS	26,219
SMITH, R DALE	INNERVATION OF LATERAL PTERYGOID MUSCLE	RO1DE 02259-04	NEUB	33,747
SZENTIVANYI, ANDOR	EFFECT OF B PERTUSSIS ON THE IMMUNE RESPONSE	RO1AI 08438-01	ALY	15,069
TOWNLEY, ROBERT G	BETA-ADRENERGIC BLOCKADE AND BRONCHIAL SENSITIVITY	RO1AI 07433-02	IMB	21,259
WELLS, IBERT C	METABOLISM AND METABOLIC EFFECTS OF CHOLINE	RO1AM 05235-08	MET	17,197
INSTITUTION TOTAL 16	507,443			
NEBRASKA UNIVERSITY OF				
AITA, JOHN A	NEUROLOGICAL MANIFESTATIONS OF GENERAL DISEASES	RO1LM 00636-01	BCM	8,646
BARKER, KENNETH L	SPECIFICITY OF UTERINE RESPONSE TO OVARIAN HORMONES	RO1HD 02851-01	REB	32,183
COPEHNAVER, JOHN H	ROLE OF BRANCHED CHAIN AMINO ACIDS IN BRAIN MATURATION	RO1NB 07588-01	MET	19,274
DUBES, GEORGE R	GENETICS OF ADENOVIRUSES	RO1AI 07321-03	VR	26,823
EISEN, JAMES D	EFFECTS OF VIRUSES ON HUMAN CHROMOSOMES	RO1HD 02774-02	VR	30,190
ELLINGSON, ROBERT J	DEVELOPMENT OF BRAIN ELECTRICAL ACTIVITY OF INFANTS	RO1NB 06486-02S1	NEUA	326
ELLINGSON, ROBERT J	DEVELOPMENT OF BRAIN ELECTRICAL ACTIVITY OF INFANTS	RO1NB 06486-03	NEUA	41,193
GIBBS, GORDON E	VASCULAR CHANGES IN THE ALLOXANIZED PRIMATE	RO1AM 02987-08S1	PTHA	3,296
GRISSOM, ROBERT L	COOPERATIVE STUDY OF DRUGS AND CORONARY HEART DISEASE	RO1HE 11322-02	SRC	52,022
HARMAN, DENHAM	ATHEROSCLEROSIS	RO1HE 08175-04S1	NTN	4,067
HOFER, JOHN F	GLUCOCORTICOID AND A LIVER FACTOR IN LYMPHOCYTOLYSIS	RO1CA 10291-01A1	MBY	33,623
HOLYOKE, EDWARD A	THE ULTRASTRUCTURE OF DEVELOPING HEMOPOIETIC ORGANS	RO1AM 07065-06	HED	6,884
JACOBI, HERBERT P	LIPIDS & LIPOPROTEINS IN PLASMA AND ATHEROMAS	RO1HE 08451-04S1	NTN	1,182
JACOBI, HERBERT P	LIPIDS & LIPOPROTEINS IN PLASMA AND ATHEROMAS	RO1HE 08451-05	NTN	28,129
KUGEL, ROBERT	MENTAL RETARDATION CLINICAL RESEARCH CENTER	PO2HD 00370-07	HDP	414,386
LAMBOOY, JOHN P	NUTRITIONAL UTILIZATION OF RIBOFLAVIN	RO1AM 11034-02	NTN	11,042
LAMBOOY, JOHN P	FLAVIN ENZYME REQUIREMENTS FOR INFANT SURVIVAL	RO1HD 01306-04	HED	16,214
LEMON, HENRY M	MAMMARY ANTI-CARCINOGENIC ACTIVITY OF ESTRIOL	RO1CA 10626-01	PHRB	20,501
MEADER, ROLAND D	STUDIES IN EXPERIMENTAL CHOLINE DEFICIENCY	RO1AM 08319-05	NTN	3,883
MILLER, NORMAN G	EFFECTS OF LEPTOSPIRES AND PRODUCTS ON TISSUE CULTURE	RO1AI 05718-05	BM	17,670
ROSE, GUENTER H	ONTOGENESIS OF VISUALLY EVOKED POTENTIALS	RO1NB 06816-02	VIS	14,097
RYAN, WAYNE L	PEPTIDES OF AMNIOTIC FLUID AND SERUM IN TOXEMIAS	RO1HD 02297-02S1	GMB	1,104
RYAN, WAYNE L	PEPTIDES OF AMNIOTIC FLUID AND SERUM IN TOXEMIAS	RO1HD 02297-03	GMB	35,606
SKULTETY, F MILES	RELATIONSHIPS BETWEEN DIENCEPHALON AND MESENCEPHALON	RO1NB 07133-02	NEUA	26,480
WARE, FREDERICK	POTASSIUM EFFECT ON POTENTIAL AND TENSION IN HEART	RO1HE 09804-03	PHY	16,161
WILHELMJ, CHARLES	THE PREPARATION OF PURIFIED SKIN ANTIGENS	RO1AM 12208-02	IMB	26,514
WITTON, CECIL L	GENERAL RESEARCH SUPPORT GRANT	SO1FR 05391-07	NSS	206,688
INSTITUTION TOTAL 27	1,098,184			
STATE TOTAL 63	1,996,234			
NEVADA				
RENO				
NEVADA UNIVERSITY OF				
DILL, DAVID B	ADAPTATIONS IN MAMMALS AND MAN TO DESERT AND MOUNTAIN	RO1GM 15693-01	PHY	12,244
LICATA, RICHARD H	PRE-NATAL & POST-NATAL MONOAMINES IN BRAIN & HEART	RO1NB 07124-02	PTHA	11,762
OLSEN, DONALD B	FETAL BLOOD FLOW & PULMONARY ARTERY HYPERTENSION	RO1HE 10846-02	CVA	27,646
SMITH, GEORGE T	PRODUCTION OF COMPLETE HEART BLOCK	RO1HE 10744-02	CVB	9,580
SMITH, GEORGE T	BIOMEDICAL SCIENCES SUPPORT GRANT	SO5FR 07102-01	NSS	37,464
INSTITUTION TOTAL 5	98,696			
STATE TOTAL 5	98,696			
NEW HAMPSHIRE				
DURHAM				
NEW HAMPSHIRE UNIVERSITY OF				
ANDERSEN, KENNETH K	SYNTHESIS AND STEREOCHEMISTRY OF SULFOXIDES	RO1GM 10800-06	MCHB	16,019
CHESBRO, WILLIAM R	SUBSTRATES OF STAPHYLOCOCCAL EXOTOXINS	RO1AI 07425-02	ALY	20,390
HERBST, EDWARD J	THE METABOLISM OF PUTRESCINE AND RELATED AMINES	RO1AI 05397-07	PC	18,177
KUO, SHAN S	GENERALIZED MATHEMATICAL MODELS OF BIOLOGICAL SYSTEMS	RO1GM 13886-02	SSS	37,970
LYLE, ROBERT E	ANALOGS OF DIPHOSPHOPYRIDINE NUCLEOTIDE	RO1CA 04143-10	MCHA	20,865
LYLE, ROBERT E	MOLECULAR REARRANGEMENTS OF PIPERIDINE COMPOUNDS	RO1HE 01713-13S1	MCHB	6,265
METCALF, THEODORE G	BIOMEDICAL SCIENCES SUPPORT GRANT	SO5FR 07108-01	NSS	39,910
SLANETZ, LAWRENCE W	STUDIES ON BOVINE STAPHYLOCOCCAL MASTITIS	RO1AI 03547-08	BM	48,242
STROUT, RICHARD G	NATURE AND EFFECT OF COCCIDIAL EXTRACTS ON HOST CELLS	RO1AI 05745-05	TMP	19,261
INSTITUTION TOTAL 9	227,099			
HANOVER				
DARTMOUTH COLLEGE				
BEMIRSCHKE, KURT	DEVELOPMENTAL PATHOLOGY	PO1GM 10210-06	GMP	289,444
BORISON, HERBERT L	PHARMACOLOGY AND PHYSIOLOGY OF BRAIN STEM FUNCTIONS	RO1NB 04456-06	NEUB	47,124
CHAMBERS, WILBERT F	ENDOCRINE ALTERATION AND NERVOUS SYSTEM FUNCTION	RO1NB 07881-01	NEUA	30,956
CHAPMAN, CARLETON B	GENERAL RESEARCH SUPPORT GRANT	SO1FR 05392-07	NSS	152,251

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INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRG	DOLLARS
NEW HAMPSHIRE—(CON.)				
COLBY, EMERSON D	ENDOGENOUS HORMONE-INDUCED ESTRUS AND PREGNANCY	RO1FR 00394-01	AR	3,000
COPENHAVER, JOHN H. JR	RENAL TUBULAR TRANSPORT MECHANISMS	RO1HE 01639-15	PHY	25,757
FERM, VERGIL H	ULTRASTRUCTURAL STUDIES IN MAMMALIAN TERATOGENESIS	RO1HD 02616-02	HED	27,400
FORSTER, ROY P	CELLULAR ASPECTS OF ACTIVE TRANSPORT	RO1HE 04457-10	PHY	11,869
GALTON, VALERIE ANNE	THE ROLE OF THE THYROID GLAND IN REPRODUCTION	RO1HD 02518-02	REB	9,360
GOSSELIN, ROBERT E	DRUG EFFECTS ON SOLUTE TRANSPORT ACROSS EPITHELIA	RO1GM 11598-05	PHRA	30,933
GRAF, VIRGIL A	BEHAVIORAL VISUAL FUNCTION	RO1NB 07222-02	VIS	10,010
GRAY, CLARKE T	ATMOSPHERIC CONTROL OF ENZYME BIOSYNTHESIS IN BACTERIA	RO1AI 05806-05	BM	20,671
HANLON, DAVID P	THE ROLE OF METAL ION ACTIVATORS IN ENOLASE CATALYSIS	RO1GM 15549-01	BBCB	27,087
HOAGLAND, MAHLON B	CONTROL OF PROTEIN SYNTHESIS	RO1GM 15775-01	PC	65,076
JACOBS, NICHOLAS J	METABOLISM OF NITRATE BY STAPHYLOCOCCI	RO1AI 06344-05	MBC	31,194
KACZMARCZYK, ALEXANDER	THE CHEMISTRY OF CLOVOBORANES AND THEIR DERIVATIVES	RO1CA 07395-05	MCHB	17,316
KILHAM, LAWRENCE	VIROLOGY OF RATS IN RELATION TO CANCER	RO1CA 06010-07	VR	32,431
MARGOLIS, GEORGE	VIRUS-CELL INTERACTION REPLICATION & DIFFERENTIATION	RO1NB 05545-03S1	VR	17,148
MARGOLIS, GEORGE	VIRUS-CELL INTERACTION REPLICATION & DIFFERENTIATION	RO1NB 05545-04	VR	84,998
MATTHEWS, LOUIS B. JR	COOPERATIVE STUDY OF DRUGS AND CORONARY HEART DISEASE	RO1HE 11655-02	SRC	60,413
MC CANN, FRANCES V	ELECTROPHYSIOLOGY OF INVERTEBRATE HEART MUSCLE	RO1HE 06132-07S1	PHY	5,153
MC CANN, FRANCES V	ELECTROPHYSIOLOGY OF INVERTEBRATE HEART MUSCLE	RO1HE 06132-08	PHY	17,765
MC INTYRE, O ROSS	BONE MARROW FAILURE CHRONIC AND ACUTE	RO1AM 02992-11	HEM	30,218
MC INTYRE, O ROSS	COOPERATIVE STUDY OF CHEMOTHERAPY OF ACUTE LEUKEMIA	RO1CA 04326-10	SRC	62,160
MUDGE, GILBERT H	RENAL TUBULAR FUNCTION	RO1AM 06818-07	GMB	30,305
MUNCK, ALLAN U	THE MODE OF ACTION OF STEROID HORMONES	RO1AM 03535-09	END	36,728
NAITOVE, ARTHUR	GASTRIC HEMODYNAMIC RESPONSES AND THEIR SIGNIFICANCE	RO1AM 11641-01	GMA	38,506
NODA, LAFAYETTE H	HIGH ENERGY PHOSPHATE TRANSFERRING ENZYMES	RO1HE 03599-11	BIO	52,231
PFEFFERKORN, ELMER R	BIOCHEMICAL STUDIES OF ARBOVIRUS MULTIPLICATION	RO1AI 08238-02	VR	31,040
RECH, RICHARD H	EVOKED POTENTIALS AND BRAIN LEVELS OF CATECHOLAMINES	RO1NB 06013-04	PHRA	18,527
SCHROEDER, HENRY A	ABNORMAL TRACE METALS IN CARDIOVASCULAR DISEASES	RO1HE 05076-09	NTN	69,289
SMITH, E LUCILE	RESPIRATORY CHAIN SYSTEM AND COUPLED PHOSPHORYLATION	RO1GM 06270-09S1	BIO	978
SMITH, LUCILE	RESPIRATORY CHAIN SYSTEM AND COUPLED PHOSPHORYLATION	RO1GM 06270-10	BIO	25,656
SPENCER, THOMAS A	MECHANISMS OF AMINE CATALYSIS	RO1AM 11815-01	MCHA	29,469
TENNEY, STEPHEN M	INTERRELATIONSHIPS OF CIRCULATION & RESPIRATION	RO1HE 02888-12	CVB	21,645
VALTIN, HEINZ	HEREDITARY HYPOTHALAMIC DIABETES INSIPIDUS	RO1AM 08469-04S1	END	495
VALTIN, HEINZ	HEREDITARY HYPOTHALAMIC DIABETES INSIPIDUS	RO1AM 08469-05	END	25,832
YOUNG, DONALD A	MECHANISM OF ACTION OF STEROID HORMONES	RO1AM 10998-02	MET	33,255
INSTITUTION TOTAL	38	1,523,690		
KEENE				
ELLIOT COMMUNITY HOSPITAL				
COHEN, ARTHUR E	USE OF RADIORENOGRAM TO EVALUATE NEUROGENIC BLADDER	RO1AM 11008-01S1	RAD	2,122
INSTITUTION TOTAL	1	2,122		
STATE TOTAL	48	1,752,911		
NEW JERSEY				
BORDENTOWN				
NEW JERSEY STATE DEPT. OF INSTITUTIONS & AGENCIES--EDWARD R. JOHNSTONE TRAINING & RESEARCH CENTER				
SPITZ, HERMAN H	WORD ASSOCIATION NORMS ADOLESCENT RETARDATES	RO1HD 01706-02	CPR	22,682
INSTITUTION TOTAL	1	22,682		
CAMDEN				
INSTITUTE FOR MEDICAL RESEARCH				
CORIELL, LEWIS L	CENTRAL CELL LINE BANK AND REGISTRY	RO1CA 04953-09	PTHB	151,155
CORIELL, LEWIS L	GENERAL RESEARCH SUPPORT GRANT	SO1FR 05582-01	NSS	89,678
LASFARGUES, ETIENNE Y	TISSUE CULTURE STUDIES OF THE MAMMARY TUMOR VIRUS	RO1CA 08515-03	VR	45,600
MOORE, DAN H	ETIOLOGICAL STUDIES OF MAMMARY CARCINOMA	RO1CA 08740-02	VR	188,258
NICHOLS, WARREN W	VIRUS ETIOLOGY OF LEUKEMIA AND PEDIATRIC TUMORS	RO1CA 03845-10S1	VR	35,517
INSTITUTION TOTAL	5	510,208		
EAST ORANGE				
INFECTIOUS DISEASE RESEARCH INSTITUTE				
HOBBY, GLADYS L	IMMUNIZING AGENTS AGAINST TUBERCULOSIS	RO1AI 05662-06	ALY	25,876
INSTITUTION TOTAL	1	25,876		
HOBOKEN				
STEVENS INSTITUTE OF TECHNOLOGY				
STIVALA, SALVATORE S	PHYSICAL PROPERTIES OF HEPARIN IN BIOLOGICAL ACTIVITY	RO1HE 05943-06S2	BBCA	5,908
WEIL, ROLF	ELECTRODEPOSITED PROSTHETIC METALS	RO1GM 14605-02	SSS	18,622
INSTITUTION TOTAL	2	24,530		
JERSEY CITY				
NEW JERSEY COLLEGE OF MEDICINE AND DENTISTRY				
BARTELL, PASQUALE F	PSEUDOMONAS AERUGINOSA POLYSACCHARIDE CYSTIC FIBROSIS	RO1AI 08504-01	BM	15,283
BOCCABELLA, ANTHONY V	ENDOCRINE STUDY OF MUSCULAR DYSTROPHY	RO1NB 02857-08	NEUA	20,853

TABLE 2—RESEARCH GRANTS, BY AREA, INSTITUTION, AND PRINCIPAL INVESTIGATOR

INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRG	DOLLARS
NEW JERSEY—(CON.)				
CONDOURIS, GEORGE A	PHARMACOLOGY OF IMPULSE CONDUCTION IN PERIPHERAL NERVES	RO1NB 06901-02	PHRA	16,805
CONDOURIS, GEORGE A	THE ROLE OF CALCIUM IN THE ACTION OF LOCAL ANESTHETICS	RO1NB 07389-02	PHRA	10,549
DAHLEN, ROGER W	EFFECT OF RATE ON THE ELECTROPHYSIOLOGY OF THE HEART	RO1HE 10460-02	CVA	25,698
FERRANTE, FRANK L	CARDIOVASCULAR STUDIES ON DIVING	RO1HE 10332-03	PHY	13,572
FURNESS, GEOFFREY	REPLICATION OF MYCOPLASMAS AND L FORMS OF BACTERIA	RO1AI 08282-01	BM	22,468
GERTNER, SHELDON B	BOUND AND RELEASED HISTAMINE IN SYMPATHETIC FUNCTION	RO1NB 05566-03S1	NEUB	9,558
HUTCHEON, DUNCAN E	EFFECTS OF SULFAMYL DIURETICS ON RENAL FUNCTION	RO1HE 05240-08S1	PHRA	1,970
LASKER, NORMAN	HYPERTENSION IN END-STAGE KIDNEY DISEASE	RO1HE 10550-03	CVB	36,526
LAURENZI, GUSTAVE A	THE MECHANISMS OF PULMONARY DEFENSE AGAINST INFECTION	RO1AI 08350-07	BM	17,097
LEEVEY, CARROLL M	VITAMIN DEFICIENCY IN ALCOHOLISM	RO1AM 04437-08	PTHB	54,482
RAWSON, RULON W	GENERAL RESEARCH SUPPORT GRANT	SO1FR 05393-07	NSS	184,309
REGAN, TIMOTHY J	CARDIOPULMONARY RENAL CLINICAL RESEARCH	RO1HE 06376-07	HEPB	227,483
REGAN, TIMOTHY J	CARDIAC METABOLISM DURING INITIATION OF NECROSIS	RO1HE 09914-03	CVB	26,087
SALGADO, ERNESTO D	STRUCTURE & FUNCTION OF EXPERIMENTAL ARTERIAL LESIONS	RO1HE 10471-03	PTHA	34,353
SHOVLIN, FRANCIS E	SEROLOGIC AND BIOCHEMICAL STUDIES OF LACTOBACILLI	RO1DE 02458-03	BM	11,928
TASSONI, JOSEPH P	HISTOCHEMICAL SURVEY OF ENZYMES IN BEHAVIOR MUTANTS	RO1HD 00195-12	GEN	30,610
TOBIN, DANIEL F	GENERAL RESEARCH SUPPORT GRANT	SO1FR 05329-07	NSS	41,197
INSTITUTION TOTAL 19	800,828			
LIVINGSTON				
ST. BARNABAS MEDICAL CENTER				
BARKULIS, SAM S	STUDIES ON THE STRUCTURE OF STREPTOCOCCAL CELL WALLS	RO1AI 08017-01	ALY	23,811
INSTITUTION TOTAL 1	23,811			
NEWARK				
NEWARK BETH ISRAEL HOSPITAL				
PARSONNET, VICTOR	BIOLOGICALLY-ENERGIZED CAROTID SINUS PACEMAKER	RO1HE 09651-02S1	CVB	752
INSTITUTION TOTAL 1	752			
RUTGERS--THE STATE UNIVERSITY				
HALL, JAMES C	BIOMEDICAL SCIENCES SUPPORT	SO5FR 07059-03	NSS	42,527
HANSEN, ERNST W	A STUDY OF PARENTAL BEHAVIOR	RO1HD 01724-03	EPR	23,505
VANDERWENDE, C	STUDIES OF ENZYMES OF THE LEUKOCYTE	RO1CA 08058-04S1	HEM	1,806
INSTITUTION TOTAL 3	67,838			
NEW BRUNSWICK				
RUTGERS--THE STATE UNIVERSITY				
ARTANDI, SUSAN	AUTOMATIC INDEXING OF DRUGS INFORMATION	RO1LM 00094-02	HLS	21,882
AVERS, CHARLOTTE J	MITOCHONDRIAL HEREDITY IN SACCHAROMYCES CEREVISIAE	RO1AI 07262-03	CBY	26,378
BAUTZ, EKKEHARD K	FRACTIONATION AND CHARACTERIZATION OF MESSENGER RNA	RO1GM 10395-06	BIO	54,558
BENSON, GORDON D	EFFECT OF ETHANOL ON HEPATOCELLULAR METABOLISM	RO1AM 10150-03	MET	16,940
BIRD, JOHN W	FUNCTIONAL RELATIONSHIPS IN VITAMIN E-DEFICIENCY	RO1NB 07180-06	NTN	24,690
BOGGS, DANE R	KINETICS AND CONTROL OF NEUTROPHILIC GRANULOCYTES	RO1AM 12295-01	HEM	55,117
BRAUN, WERNER	CELL BREAKDOWN PRODUCTS ON IMMUNE RESPONSES	RO1AM 08742-04	IMB	38,016
CHANG, STEPHEN S	CHEMICAL REACTIONS IN DEEP FAT FRYING OF FOODS	RO1HE 07610-07	NTN	17,863
COHEN, EDWARD P	ANTIBODY PRODUCTION BY TRANSFORMED LYMPHOID CELLS	RO1AI 06852-03	ALY	22,906
COLLIER, GEORGE H	THE DETERMINANTS OF AMOUNT OF REINFORCEMENTS	RO1HD 00941-06	EXP	40,242
COLLIER, GEORGE H	NUTRITIONAL AND BIOCHEMICAL BASIS FOR LEARNING	RO1HD 03279-04	EXP	40,219
CRANE, ROBERT K	BRUSH BORDER ENZYMES	RO1AM 10696-03	MBY	28,078
CRANE, ROBERT K	STUDIES ON ISOLATED BRUSH BORDERS	RO1AM 12067-03	MBY	30,202
DAVIS, FRANK F	ASPECTS OF NUCLEIC ACID METABOLISM	RO1GM 09999-06	MBO	24,094
DENNEY, DONALD B	REACTIONS OF ORGANOPHOSPHORUS COMPOUNDS	RO1CA 10737-04	MCHA	33,807
DUBIN, DONALD T	R-RNA & RIBOSOME SYNTHESIS IN BACTERIA & ANIMAL CELLS	RO1GM 14957-01	BIO	81,553
EMAS, PETER D	DISCRIMINATION LEARNING IN CHILDREN	RO1HD 03045-01	EXP	31,837
FISHER, HANS	AMINO ACID AND CREATININE EXCRETION	RO1AM 04904-08	NTN	15,339
FRANKEL, HARRY M	RESPIRATORY CONTROL	RO1HE 09657-03S1	PHY	415
FREEMAN, ALAN R	PHYSIOLOGY AND STRUCTURE OF CELL MEMBRANES	RO1GM 15454-01	CBY	18,694
GABBAY, EDMOND J	ON THE POLYNUCLEOTIDE-POLYPEPTIDE INTERACTIONS	RO1GM 13597-03	BBC	13,718
GABBAY, EDMOND J	TOPOGRAPHY AND STRUCTURE OF NUCLEIC ACID HELICES	RO1GM 15308-01	BBCA	21,739
GABBAY, EDMOND J	ORD/CD SPECTROPOLARIMETER - A JOINT PROPOSAL	RO1GM 15309-01	BBCA	43,397
GERBER, NANCY N	STRUCTURE OF MICROBIAL PIGMENTS	RO1AI 06230-04	MCHA	14,030
GERBER, NANCY N	STRUCTURE OF AN ODORIFEROUS SUBSTANCE OF ACTINOMYCETES	RO1AI 06708-03	MCHB	13,827
GOODMAN, LIONEL	LUMINESCENCE AND ENERGY TRANSFER IN PURINES	RO1GM 14936-02	BBCB	14,245
GORDON, GERALD B	PATHOGENESIS OF LIPID ACCUMULATION	RO1HE 11248-02	PTHA	25,308
GREEN, JAMES W	STUDIES OF SOLUBILIZED RED CELL MEMBRANE ATPASES	RO1AM 12374-01	GMB	15,161
GRIMINGER, PAUL	VITAMIN K AND THROMBOPLASTIC ACTIVITY	RO1HE 10997-02	NTN	10,941
GROUPE, VINCENT	PATHOGENESIS OF VIRAL NEOPLASIA	RO1CA 10282-01	VR	24,264
GURNEY, CLIFFORD W	STEM CELL PROLIFERATION AND DIFFERENTIATION	RO1AM 11609-02	HEM	43,227
HESS, ARTHUR	EXPERIMENTAL STUDY OF STRUCTURE OF NERVE ENDINGS	RO1NB 07662-01S1	NEUB	10,354
HESS, ARTHUR	EXPERIMENTAL STUDY OF STRUCTURE OF NERVE ENDINGS	RO1NB 07662-02	NEUB	89,187
HSU, ROBERT Y	MECHANISM OF FATTY ACID SYNTHESIS IN ANIMALS	RO1AM 11734-01	PC	21,303
LAMPEN, J OLIVER	YEAST PERMEABILITY AND INVERTASE BIOSYNTHESIS	RO1AI 04572-07	BIO	70,294
LAMPEN, J OLIVER	BIOCHEMICAL STUDIES WITH MICROORGANISMS	RO1AI 07310-03	MBC	41,429
LAMPEN, J OLIVER	TRAVEL FOR III INTL FERMENTATION SYMPOSIUM	R13AI 08257-01	MBC	8,000

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INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRG	DOLLARS
NEW JERSEY—(CON.)				
LEATHAM, JAMES H	HORMONAL AND DIETARY PROTEIN INTERRELATIONSHIPS	R01AM 00462-14	END	21,514
LECHEVALIER, HUBERT A	CELL WALL COMPOSITION OF AEROBIC ACTINOMYCETES	R01AI 05489-04S1	MBC	7,626
MALAMED, SASHA	A COMPARATIVE STUDY OF MITOCHONDRIAL SWELLING	R01GM 15872-01	MBY	22,913
MORRIS, N RONALD	BASE ANALOGS AND DNA TEMPLATE ACTIVITY	R01CA 10665-01	PHRB	33,002
MORRISON, ASHTON B	RENAL MEDULLARY LESIONS IN MAGNESIUM DEFICIENCY	R01AM 10563-03	PTHB	37,217
MOSS, ROBERT A	HOMOLOGS OF PRISMANE	R01GM 13585-03	MCHB	10,429
NEIMARK, EDITH D	DEVELOPMENT OF INFORMATION GATHERING	R01HO 01725-03	NP	18,915
NICKERSON, WALTER J	BIOCHEMISTRY OF MORPHOGENESIS IN FUNGI	R01AI 00251-16	CBY	21,420
PLAUT, GERHARD W E	PATHWAYS AND COMPOUNDS OF INTERMEDIARY METABOLISM	R01AM 10501-03	PC	49,881
PLESCIA, OTTO J	CONVERTING INERT SUBSTANCES INTO EFFECTIVE IMMUNOGENS	R01AI 08493-01	ALY	49,736
PLESCIA, OTTO J	DNA-ASSOCIATED ANTIGENS AND CANCER THERAPY	R01CA 04786-08S1	ALY	23,997
PLESCIA, OTTO J	IMMUNOLOGICAL STUDY OF MAMMARY TUMOR AGENT	R01CA 07442-04	VR	13,540
PRICE, CARL A	ENZYME CONTROL MECHANISMS IN ORGANELLES	R01HO 01787-03	PC	62,207
SAUERS, RONALD R	CHEMISTRY OF THE BICYCLO 3, 2, 1 OCTANE SYSTEM	R01GM 08701-07	MCHA	15,003
SCHAFFNER, CARL P	CHEMISTRY OF POLYENE ANTIFUNGAL ANTIBIOTICS	R01AI 02095-10	MCHA	19,147
SCHLESINGER, R WALTER	GROUP B ARBOVIRUSES IN MAMMALIAN AND INSECT CELLS	R01AI 05920-06	VR	62,477
SCHLESINGER, R WALTER	VIRAL CARCINOGENESIS AND LATENCY	R01CA 08851-05	VR	70,653
SCRUTTON, MICHAEL	BOVINE LIVER PROPIONYL COA CARBOXYLASE	R01AM 11712-01	PC	29,684
SENFT, JOSEPH P	MEMBRANE POTENTIAL AND MEMBRANE PUMP IN THE AXON	R01NB 07824-01	PHY	22,331
SQUIBB, ROBERT L	EFFECT OF DIET ON FLUCTUATIONS OF TISSUE COMPONENTS	R01AM 10673-02	NTN	17,229
STAUBER, LESLIE A	VISCERAL LEISHMANIASIS IN EXPERIMENTAL ANIMALS	R01AI 00092-18	TMP	18,339
STETTEN, DE WITT, JR	GENERAL RESEARCH SUPPORT GRANT	S01FR 05576-04	NSS	67,457
STETTEN, MARJORIE R	STUDIES IN CARBOHYDRATE METABOLISM	R01AM 07279-06	PC	22,105
STRAUSS, ULRICH P	SPECIFIC COUNTERION BINDING BY POLYELECTROLYTES	R01GM 12307-04	BBCB	30,839
STURKIE, PAUL D	CATECHOLAMINES HISTAMINE SEROTONIN AND BLOOD PRESSURE	R01HE 10502-03	PHY	16,778
TORREY, HENRY C	BIOMEDICAL SCIENCES SUPPORT	S05FR 07058-03	NSS	99,587
VOGEL, HENRY J	STUDIES ON ENZYME REPRESSION IN BACTERIA	R01AI 04796-07	BIO	28,941
WAINIO, WALTER W	HEART MITOCHONDRIAL CYTOCHROMES AND PHOSPHORYLATION	R01AM 09762-03	BIO	37,297
WANNEMACHER, ROBERT W, JR	THE MAGNITUDE AND SIGNIFICANCE OF PROTEIN RESERVES	R01AM 04341-08	NTN	32,198
WILSON, BILLY R	FATE OF PESTICIDES	P01ES 00016-05	SSS	236,145
INSTITUTION TOTAL	67	2,301,861		
PASSAIC				
BETH ISRAEL HOSPITAL				
SOBEL, HAROLD J	HISTOCHEMICAL ELECTRONMICROSCOPY OF TISSUE INJURY	R01HE 05950-08	PTHA	38,857
INSTITUTION TOTAL	1	38,857		
PRINCETON				
EDUCATIONAL TESTING SERVICE				
FREDERIKSEN, NORMAN O	SUPPORT FOR ETS CENTER FOR PSYCHOLOGICAL STUDIES	P01HO 01762-02S1	HDP	2,295
FREDERIKSEN, NORMAN O	SUPPORT FOR ETS CENTER FOR PSYCHOLOGICAL STUDIES	P01HO 01762-03	HDP	297,662
INSTITUTION TOTAL	2	299,957		
NEW JERSEY STATE DEPT. OF INSTITUTIONS & AGENCIES-- N. J. BUREAU OF RESEARCH IN NEUROLOGY & PSYCHIATRY				
BAUMAN, JOHN W, JR	HORMONAL REGULATION OF ANTIIDIURESIS	R01AM 08942-04	GMB	23,010
BAUMAN, JOHN W, JR	HORMONE EFFECTS ON CHOLESTEROL AND BILE ACIDS	R01AM 09906-01A2	GMA	20,672
FEIGENBAUM, ABRAHAM S	ATHEROMA SUSCEPTIBILITY AND LIPID METABOLISM	R01HE 07504-06	NTN	24,074
OSMOND, HUMPHRY F	GENERAL RESEARCH SUPPORT GRANT	S01FR 05558-06	NSS	127,441
INSTITUTION TOTAL	4	195,197		
PRINCETON UNIVERSITY				
ALBERTS, BRUCE M	BIOCHEMICAL MECHANISMS OF CONTROL OF DNA FUNCTION	R01GM 14927-02	BIO	20,953
BURGER, MAX M	BIOCHEMISTRY OF ANIMAL CELL SURFACES	R01CA 10151-02	MBY	43,203
BUTOW, RONALD A	MECHANISMS OF BIOENERGETIC REACTIONS	R01GM 13667-03	BIO	27,560
CERUTTI, PETER A	SELECTIVE MODIFICATION OF NUCLEIC ACIDS	R01GM 14090-02	BIO	44,570
FRESCO, JACQUES R	MACROMOLECULAR ASPECTS OF NUCLEIC ACIDS	R01GM 07654-08	BBC	51,814
FRESCO, JACQUES R	BIOMEDICAL SCIENCES SUPPORT	S05FR 07057-03	NSS	88,319
GELDARD, FRANK A	PARAMETERS OF CUTANEOUS COMMUNICATION	R01NB 04755-05	CMS	47,812
GILVARG, CHARLES	FUNCTIONS OF THE LYSINE PATHWAY	R01AM 09058-04	PC	41,007
GILVARG, CHARLES	PEPTIDE UTILIZATION	R01AM 10336-03	PC	32,907
GLUCKSBERG, SAM	DEVELOPMENTAL STUDY OF VERBAL COMMUNICATION	R01HO 01910-03	EXP	20,873
HILL, RICHARD K	ABSOLUTE CONFIGURATION OF ORGANIC NATURAL PRODUCTS	R01GM 06568-09	PHRA	21,613
KUNTZ, IRWIN D, JR	SPECTROSCOPIC STUDIES OF EXCITABLE TISSUE	R01NB 06614-03	BBC	25,154
LISK, ROBERT D	REPRODUCTIVE BEHAVIOR FACILITATION AND INHIBITION	R01HO 02615-02	REB	30,448
MC CLURE, DONALD S	PHOTOCHEMICAL AND ELECTRONIC PROCESSES IN MOLECULES	R01GM 15791-01	BBCA	43,101
NEWTON, WILLIAM A	THE POLARITY EFFECT IN OPERON EXPRESSION	R01GM 14622-02	GEN	40,299
PARDEE, ARTHUR B	REGULATION OF ENZYME SYNTHESIS AND ACTIVITY	R01AI 04409-08	PC	76,440
REBHUN, LIONEL I	USE OF RAPID FREEZING IN STUDY OF CELL ULTRASTRUCTURE	R01GM 07426-08	CB	21,806
SCHLEYER, PAUL VON R	ORGANIC MOLECULES WITH DIAMOND-LIKE STRUCTURES	R01AI 07766-02	MCHA	47,223
SMOLUCHOWSKI, ROMAN	INFLUENCE OF DEFECTS ON PROPERTIES OF APATITES	R01HO 02492-02	DEN	53,330
SPIRO, THOMAS G	METAL ION INTERACTIONS WITH WATER	R01GM 13498-03	MCHB	18,619
SUEOKA, NOBDRU	BIOCHEMISTRY AND GENETICS OF AMINO ACID TRANSFER RNA	R01GM 10923-06	PC	81,585
TAUB, STEPHAN R	MATING TYPE DETERMINATION IN PARAMECIUM AURELIA	R01GM 11679-06	GEN	20,395
TAYLOR, EDWARD C	STUDIES IN HETEROCYCLIC CHEMISTRY	R01CA 02551-14	MCHB	67,508

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INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRG	DOLLARS
NEW JERSEY—(CON.)				
WEVER, ERNEST G	THE NATURE OF HEARING	P01NB 03798-05S1	NBP	2,635
WEVER, ERNEST G	THE NATURE OF HEARING	P01NB 03798-06	NBPA	197,583
WEVER, ERNEST G	THE FUNCTIONS OF THE COCHLEA	R01NB 02973-08	CMS	27,558
WOLFENDEN, RICHARD V	CHEMICAL MECHANISMS OF BIOSYNTHESIS	R01GM 12725-04	BIO	37,274
INSTITUTION TOTAL 27	1,231,589			
SOUTH ORANGE				
SETON HALL UNIVERSITY				
KRAMER, STANLEY Z	DRUG EFFECTS ON BRAIN ELECTRICAL ACTIVITY AND BEHAVIOR	R01NB 07804-01	PHRA	20,521
INSTITUTION TOTAL 1	20,521			
SUMMIT				
INDIVIDUAL GRANT				
OLIVER, JEAN	MICRODISSECTION OF MAMMALIAN KIDNEY AND NEPHRON	R01HE 07973-06	PHY	23,912
INSTITUTION TOTAL 1	23,912			
TEANECK				
FAIRLEIGH DICKINSON UNIVERSITY				
INNERFIELD, IRVING	A BIOCHEMICAL-CYTOCHEMICAL STUDY OF GINGIVAL DISEASE	R01DE 01964-02S1	DEN	5,150
INNERFIELD, IRVING	A BIOCHEMICAL-CYTOCHEMICAL STUDY OF GINGIVAL DISEASE	R01DE 01964-03	DEN	33,000
WILSON, W A	GENERAL RESEARCH SUPPORT GRANT	S01FR 05328-07	NSS	28,223
INSTITUTION TOTAL 3	66,373			
HOLY NAME HOSPITAL				
TRACHT, MYRON E	REVERSAL OF ACUTE TOXIC LIVER INJURY	R01AM 10416-03	PTHB	9,650
TRACHT, MYRON E	PHYSIOLOGICAL CONTROL OF PLASMA PROTEIN CONCENTRATION	R01HE 10347-03S1	MET	1,272
INSTITUTION TOTAL 2	10,922			
TRENTON				
NEW JERSEY ST DEPT OF HEALTH				
BIERENBAUM, MARVIN L	BLOOD CHOLESTEROL AND CORONARY HEART DISEASE	R01HE 05905-08	EDC	39,760
GOLDFIELD, MARTIN	THE ECOLOGY OF EASTERN AND WESTERN ENCEPHALITIS	R01AI 04397-06S1	VR	24,301
INSTITUTION TOTAL 2	64,061			
STATE TOTAL 143	5,729,775			
NEW MEXICO				
ALBUQUERQUE				
LOVELACE FOUNDATION FOR MEDICAL EDUCATION AND RESEARCH				
GODDARD, ROY F	PULMONARY PHYSIOLOGY OF INFANTS AND TODDLERS	R01HD 02094-03	CVA	13,472
GORDON, ARCHER S	OPTIMUM DC DEFIBRILLATION AND CONVERSION PARAMETERS	R01HE 10769-02	CVA	28,699
LUFT, ULRICH C	ALVEOLAR-ARTERIAL GAS GRADIENTS IN PULMONARY DISEASE	R01HE 10298-03	CVA	24,339
MC CARTHY, JACK D	CONTRACEPTIVE STEROIDS AND MAMMARY CANCER	R01CA 08801-02	PHRB	20,508
MOWRY, FRANK M	COOPERATIVE STUDY OF DRUGS AND CORONARY HEART DISEASE	R01HE 10707-03	SRC	16,169
PERLEY, MICHAEL J	EFFECTS OF AGE & HEREDITY ON DIABETES MELLITUS	R01AM 10921-02	PTHA	13,805
PROPER, ROBERT	STUDY OF PHYSIOLOGICAL AND PSYCHOLOGICAL AGING	P01HD 00518-07	HDP	169,200
WHITE, CLAYTON S	GENERAL RESEARCH SUPPORT GRANT	S01FR 05531-04	NSS	154,732
INSTITUTION TOTAL 8	440,924			
NEW MEXICO UNIVERSITY OF				
ANDERSON, ROBERT E	THE PATHOLOGY OF ACCELERATED AGING IN GERMFREE MICE	R01HD 02194-02	RAD	18,600
CORDS, CARL E	ABORTIVE PHAGE INFECTION OF MICROCOCCUS LYSODEIKTICUS	R01AI 08093-01	VR	21,968
DESPOPOULOS, AGAMEMNON	ACTIVE TRANSPORT AND CELLULAR METABOLISM	R01AM 08719-04	PHRA	25,692
DIETERT, SCOTT E	TESTIS FINE STRUCTURE AS RELATED TO DEVELOPMENT	R01HD 02494-02	HED	12,440
DIVETT, ROBERT T	TOTAL SYSTEM COMPUTER PROGRAM FOR MEDICAL LIBRARIES	R01LM 00053-03	COM	62,687
EATON, R PHILIP	LIPOPROTEIN-CARBOHYDRATE METABOLISM	R01HE 12085-01	MET	67,910
FINLEY, THEODORE N	RESPIRATORY DISTRESS - ROLE OF LUNG & BLOOD LIPIDS	R01HE 09491-04	SGYA	32,897
FITZ, REGINALD H	GENERAL RESEARCH SUPPORT GRANT	S01FR 05583-04	NSS	100,167
FRAZIER, DONALD T	UNIT ANALYSIS OF HYPOTHALAMIC INTERACTIONS	R01NB 05929-02S1	PHY	6,074
FRAZIER, DONALD T	UNIT ANALYSIS OF HYPOTHALAMIC INTERACTIONS	R01NB 05929-03	PHY	21,226
GARCIA-BUNUEL, LUIS	CONNECTIVE TISSUE ENZYMES IN SKELETAL MUSCLE	R01NB 07786-01	MET	31,238
HOLLSTEIN, ULRICH	INVESTIGATION OF ALKALOIDS FROM SOME NEW MEXICO PLANTS	R01GM 15771-01	MCHB	6,142
JOHNSON, PEDER J	ACQUISITION AND UTILIZATION OF CONCEPTUAL RULES IN CHIL	R01HD 03390-01	DBR	15,427
KISCH, ALEXANDER L	COCARCINOGENIC EFFECTS OF DMSO AND ITS ANALOGS	R01CA 08738-03	VR	27,017
LADMAN, AARON J	FINE STRUCTURE OF TISSUES DURING TRANSPORT BEHAVIOR	R01GM 14435-02	PTHA	21,659
LE BARON, FRANCIS N	STUDY OF BRAIN PROTEINS MACROMOLECULAR COMPLEXES	R01NB 05923-04	PC	33,729
LEPPI, T JOHN	MUCOSACCHARIDES OF EPITHELIAL AND CONNECTIVE TISSUES	R01AM 11064-02	CBY	14,463
LOFTFIELD, ROBERT B	BIOSYNTHESIS OF PROTEIN	R01CA 08000-04	BIO	42,145
LOVEKIN, WILLIAM S	CONGESTIVE HEART FAILURE IN THE SOUTHWESTERN INDIAN	R01HE 09460-04	CVA	13,920
LUIS, GARCIA-BUNUEL	ENZYME ACTIVITIES IN ATROPHIC RED AND WHITE MUSCLE	R01NB 07882-01	MET	2,333
MC LAREN, LEROY C	ENTEROVIRUS-HOST CELL INTERACTION	R01AI 06450-05	VR	32,739
MORTIMER, EDWARD A, JR	STUDY OF GROUP A STREPTOCOCCAL L FORMS IN VIVO	R01AI 07501-02	AL	17,536
MUNSICK, ROBERT A	IN VITRO STUDY OF THE PHYSIOLOGY OF THE AMNION	R01HD 02173-02S1	HED	1,672
NAKAI, GEORGE S	RIBONUCLEIC ACID METABOLISM OF LEUKEMIC LEUKOCYTES	R01CA 10694-01	HEM	50,890

TABLE 2—RESEARCH GRANTS, BY AREA, INSTITUTION, AND PRINCIPAL INVESTIGATOR

INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRG	DOLLARS
NEW MEXICO—(CON.)				
NAPOLITANO, LEONARD M	FINE STRUCTURE OF ADIPOSE TISSUES	RO1AM 09432-04	CBY	20,914
PALMER, DARWIN L	RES ACTIVITY IN THE INFECTION-PRONE PATIENT	RO1AI 08219-02	ALY	14,152
PAPPER, SOLOMON	KIDNEY IN CIRRHOSIS SODIUM EXCRETION IN HYPERTENSION	RO1HE 07665-06	CVA	40,871
POLLAY, MICHAEL	BRAIN-CEREBROSPINAL FLUID BARRIER	RO1NB 05193-04	NEUA	24,713
POLLAY, MICHAEL	MONOSACCHARIDE TRANSPORT IN THE NERVOUS SYSTEM	RO1NB 06269-03	NEUB	18,506
PRIOLA, DONALD B	RESPONSE OF THE DENERVATED HEART TO DRUGS	RO1HE 10869-02	CVA	42,320
SCALETTI, JOSEPH V	LIPIDS IN CELLS TRANSFORMED BY TUMOR VIRUSES	RO1CA 10239-02	VR	26,265
SCALLEN, TERENCE J	LIPID METABOLISM IN BIOLOGICAL SYSTEMS	RO1AM 10628-03	MET	20,800
SIMON, ERNEST R	RED CELL BIOCHEMISTRY	RO1AM 08131-04	HEM	23,229
SOLOMON, SIDNEY	MECHANISMS OF ELECTROLYTE TRANSPORT IN THE KIDNEY	RO1HE 08477-05	PHY	38,336
TOKUDA, SEI	IMMUNOLOGICAL ENHANCEMENT OF SARCOMA TUMOR CELLS	RO1CA 10129-02	IMB	28,752
TRIER, JERRY S	FUNCTIONAL MORPHOLOGY OF THE ALIMENTARY TRACT	RO1AM 11656-01	GMA	110,628
WEAVER, JAMES K	BIOCHEMICAL ALTERATIONS IN A VASCULAR BONE	RO1AM 10026-03	SCYB	17,712
WEST, BRUCE D	DETOXICATION OF STEREOISOMERS OF WARFARIN	RO1HE 10527-02S1	TOX	4,050
WEST, BRUCE D	DETOXICATION OF STEREOISOMERS OF WARFARIN	RO1HE 10527-03	TOX	17,771
WHANG, ROBERT	MAGNESIUM METABOLISM	RO1HE 08673-04S1	GMB	3,835
WOODFIN, BEULAH M	THE CONFORMATION OF MULTI-CHAIN ENZYMES	RO1AM 11981-01	PC	36,086
INSTITUTION TOTAL	41	1,169,511		
GALLUP				
P H S BUREAU OF HEALTH SERVICES-P H S INDIAN HOSPITAL				
GLAUSER, RUSSELL O	INDICATION FOR SERIAL EXTRACTION IN NAVAJO CHILDREN	RO1DE 02270-05	DEN	10,820
INSTITUTION TOTAL	1	10,820		
UNIVERSITY PARK				
NEW MEXICO STATE UNIVERSITY				
ANEX, BASIL G	SELECTED SOLID STATE SPECTRAL STUDIES	RO1GM 15602-01	BBCA	45,622
LWOWSKI, WALTER	ON THE NATURE OF AMINATION REACTIONS, III	RO1GM 14638-02	MCHB	48,597
WEEKS, OWEN B	CAROTENOGENESIS IN FLAVOBACTERIUM DEHYDROGENANS	RO1AM 10990-02	MBC	22,694
INSTITUTION TOTAL	3	116,913		
STATE TOTAL	53	1,738,168		
NEW YORK				
ALBANY				
NEW YORK STATE DEPARTMENT OF HEALTH				
ABELSETH, MELVIN E	EHD VIRUS AND THROMBOTIC MECHANISMS	RO1HE 11304-01	VR	11,009
CONS, NAHAM C	ALBANY TOPICAL FLUORIDE STUDY	RO1DH 00065-03	DEN	7,378
DEIBEL, RUDOLF	DIFFERING CHARACTERISTICS OF RUBELLA VIRUS STRAINS	RO1AI 07507-02	VR	11,742
EDWARDS, MERCEDES R	ULTRASTRUCTURE OF FUNGI, BACTERIA, AND ALGAE	RO1AI 08119-01	BM	33,741
LAWSON, WILLIAM B	ENZYME MODIFICATION WITH BIFUNCTIONAL INHIBITORS	RO1AM 05299-07	BIO	31,517
MALEY, FRANK	NUCLEOTIDE INTERCONVERSIONS	RO1CA 06406-07	PC	20,766
MILLER, KENT D	COMPARATIVE STUDY OF COAGULATION & VASCULAR DISEASE	PO1HE 09902-03	HEP	89,636
PLUMMER, THOMAS H, JR	STUDIES ON BOVINE PROCARBOXYPEPTIDASE B	RO1GM 11764-05	PC	13,348
TOMPKINS, VICTOR N	GENERAL RESEARCH SUPPORT GRANT	SO1FR 05649-02	NSS	185,179
INSTITUTION TOTAL	9	404,316		
NEW YORK STATE UNIVERSITY OF ALBANY				
ALLEN, ROBERT D	CELL ORGANIZATION AND DYNAMICS BY IMPROVED METHODS	PO1GM 14891-02	GMP	287,732
CHESSIN, HENRY	AN INTERDISCIPLINARY STUDY OF DENTAL MATERIALS	PO1DE 02335-03	DEP	24,197
CLOSSON, WILLIAM D	CLEAVAGE OF SULFONYL DERIVATIVES WITH ANION RADICALS	RO1AM 11419-02	MCHB	16,360
MARFEY, S PETER	STEREOCHEMICAL STUDY OF POLYPEPTIDES AND PROTEINS	RO1GM 15654-01	BBCA	33,971
SAUNDERS, JOHN W	MORPHOGENETIC CELLULAR DEATH	RO1HD 03734-01	CBY	42,737
TEDESCHI, HENRY	THE PERMEABILITY OF INTRACELLULAR MEMBRANES	RO1GM 13610-04	MBY	25,632
INSTITUTION TOTAL	6	430,629		
UNION UNIVERSITY, ALBANY MEDICAL COLLEGE				
ALLEN, S H GEORGE	NAD DEHYDROGENASE BINDING	RO1AM 08461-05	BIO	24,197
BALINT, JOHN A	FAT ABSORPTION AND TRANSPORT	RO1HE 08997-05	MET	24,929
BALINT, JOHN A	STUDIES IN TAY-SACHS DISEASE	RO1NB 05124-05	HEM	16,030
BEELER, DONALD A	PHOSPHOLIPID AND CHOLESTEROL METABOLISM	RO1AM 08579-05	MET	30,229
BERNARD, HARVEY R	F A IDENTIFICATION OF BACTERIA IN SURGICAL INFECTION	RO1AI 08552-01	SCYB	15,698
COULSTON, FREDERICK	COMPARATIVE ENVIRONMENTAL TOXICOLOGY	PO1ES 00226-02	SSS	186,442
DEMIS, D JOSEPH	HISTAMINE IN MASTOCYTOSIS AND RELATED DISEASES	RO1AM 11655-02	GMA	39,801
DEMIS, D JOSEPH	MICROCIRCULATION OF HUMAN SKIN	RO1GM 15299-02	GMA	11,090
EDMONDS, RICHARD H	ELECTRON MICROSCOPE STUDY OF AVIAN BLOOD CELLS	RO1AM 10434-03	HEM	11,841
GLENN, JOSEPH L	PHOSPHATIDE METABOLISM IN LIVER	RO1AM 07714-04S1	MET	2,286
GLENN, JOSEPH L	PHOSPHATIDE METABOLISM IN LIVER	RO1AM 07714-05	MET	23,640
GOODMAN, A DAVID	REGULATION OF RENAL AMMONIA PRODUCTION	RO1AM 09232-04	GMB	38,860
HALL, CHARLES A	MECHANISMS OF ABSORPTION OF VITAMIN B12	RO1AM 02808-08	HEM	12,154
HOSLEY, HENRY F	HYDROXYPROLINE METABOLISM IN CANCER	RO1CA 08508-03	MET	12,501
HURWITZ, CHARLES	INTERACTIONS IN VIVO BETWEEN MAGNESIUM AND POLYAMINES	RO1AI 07737-02	MBC	27,384
JACOBSON, HERBERT I	THE MECHANISM OF ESTROGEN ACTION IN PRIMATES	RO1HD 01732-03	END	35,530
KANTER, GERALD S	RENAL FUNCTION DURING HYPOTHERMIA	RO1HE 09097-03S1	PHY	14,717

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INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRG	DOLLARS
NEW YORK—(CON.)				
KRASNEY, JOHN A	MECHANISMS OF CARDIOVASCULAR RESPONSE TO ANOXIA	R01HE 11982-01	CVB	11,630
LENDE, RICHARD A	REPRESENTATION IN THE CEREBRAL CORTEX	R01NB 05976-04	NEUA	36,494
LONG, JAMES F	MECHANISM OF GASTRIC INHIBITION BY FAT	R01AM 09559-03	GM	16,260
MEGIRIAN, ROBERT	EFFECT OF ANTICANCER DRUGS ON PHAGOCYTOSIS	R01CA 06643-06	PHRB	21,220
MILLER, JAMES E	ELECTROMYOGRAPHIC STUDY OF OCULOMOTOR FUNCTION	R01NB 04936-05	VIS	33,126
MILLER, JAMES E	A STUDY OF NORMAL AND DISEASED EXTRAOCULAR MUSCLE	R01NB 05794-04	PTHA	44,400
MUNTZ, JOHN A	INTERMEDIARY METABOLISM IN ISOLATED, PERFUSED, LIVER	R01AM 01060-12	PC	13,866
OLSON, KENNETH B	COOPERATIVE STUDY OF BREAST CANCER THERAPY	R10CA 03365-11A1	SRC	24,600
OLSON, KENNETH B	COOPERATIVE STUDY OF CHEMOTHERAPY IN CANCER	R10CA 06594-06	SRC	58,350
POGELL, BURTON M	CONTROL AND REGULATION OF CARBOHYDRATE BIOSYNTHESIS	R01GM 12888-03S1	PC	600
POGELL, BURTON M	CONTROL AND REGULATION OF CARBOHYDRATE BIOSYNTHESIS	R01GM 12888-04	PC	40,087
POWERS, SAMUEL R, JR	ON-LINE COMPUTER STUDY OF THERAPY FOR HUMAN SHOCK	PO1GM 15426-01	GMP	151,681
POWERS, SAMUEL R, JR	REGIONAL PRESSURE GRADIENTS AND CEREBRAL FUNCTION	R01HE 08179-06	SGYA	18,805
RODGERS, JOHN B, JR	STUDIES ON SMALL BOWEL LIPID ABSORBING N ENZYMES	R01AM 11979-01	GMA	28,400
STROMINGER, NORMAN L	AUDITORY SYSTEM	R01NB 06350-02	CMS	20,121
THOMAS, WILBUR A	CHEMICO-HEMATOLOGIC-ANATOMIC STUDIES	PO1HE 07155-07	HEP	470,628
WIGGERS, HAROLD C	GENERAL CLINICAL RESEARCH CENTER	M01FR 00094-05	CLR	278,475
WIGGERS, HAROLD C	GENERAL RESEARCH SUPPORT GRANT	S01FR 05394-07	NSS	345,267
INSTITUTION TOTAL	35	2,141,339		
BINGHAMTON				
NEW YORK STATE UNIVERSITY OF AT BINGHAMTON				
FALLON, DANIEL	LEARNING UNDER JOINT REINFORCEMENT AND PUNISHMENT	R01HO 03272-02	EXP	16,829
LAZAROFF, NORMAN	PHOTOCONTROL OF DEVELOPMENT IN ALGAL CELLS	R01GM 15076-01	CBY	13,587
SCHRIER, EUGENE E	THE EFFECTS OF SALTS ON INTERACTIONS IN AQUEOUS MEDIA	R01GM 11762-04	BBCB	39,299
VERBIT, LAWRENCE	THE BENZENE RING AS AN OPTICALLY ACTIVE CHROMOPHORE	R01GM 14068-03	BBCA	17,269
INSTITUTION TOTAL	4	86,984		
BROOKVILLE				
LONG ISLAND UNIVERSITY				
DWYER, JAMES M	SELENIUM AROMATIC FREE RADICALS	R01GM 15894-01	MCHB	3,420
INSTITUTION TOTAL	1	3,420		
BUFFALO				
BUFFALO GENERAL HOSPITAL				
HRESHCHYSHYN, MYROSLAW M	ADJUVANT UTERINE CANCER CHEMOTHERAPY	R01CA 07706-05	SRC	7,221
INSTITUTION TOTAL	1	7,221		
CHILDREN'S HOSPITAL OF BUFFALO				
CORTNER, JEAN A	GENERAL RESEARCH SUPPORT GRANT	S01FR 05493-06	NSS	63,057
CRUISE, MARY O	A LONGITUDINAL STUDY OF SKELETAL GROWTH OF PREMATURES	R01HD 00434-07	HED	362
KARZON, DAVID T	IMMUNOLOGICAL PROPERTIES OF ENTERO AND MEASLES VIRUSES	R01AI 02396-09	VR	66,826
LAMBERT, EDWARD C	NATURAL HISTORY CONGENITAL HEART DEFECTS JOINT STUDY	R01HE 09474-04	SRC	10,675
NETER, ERWIN	STUDY OF BACTERIAL TOXINS AND HEMAGGLUTINATION	R01AI 00658-13	ALY	20,937
WEINTRAUB, DAVID H	THE EFFECT OF PLASMIN IN HYALINE MEMBRANE DISEASE	R01HD 00249-06S1	HED	12,481
YAFFE, SUMNER J	CONJUGATION MECHANISMS DURING MAMMALIAN DEVELOPMENT	R01HD 01219-04S1	PHRA	8,310
INSTITUTION TOTAL	7	182,648		
MEDICAL FOUNDATION OF BUFFALO				
BOON, DONALD A	ASSAY OF NON-CONJUGATED HUMAN PLASMA ANDROGENS	R01AM 09996-02S1	END	4,244
NORTON, DORITA A	MOLECULAR STRUCTURES OF STEROIDS	R01CA 10906-01	BBCA	67,533
PLAGER, JOHN E	A STUDY OF PITUITARY ACTH CAPACITY	R01AM 06085-06S1	END	2,125
PLAGER, JOHN E	A STUDY OF PITUITARY ACTH CAPACITY	R01AM 06085-07	END	36,616
PLAGER, JOHN E	STEROID CONJUGATES IN PLASMA AND URINE	R01AM 07622-05	END	23,399
INSTITUTION TOTAL	5	133,917		
MILLARD FILLMORE HOSPITAL				
HRESHCHYSHYN, MYROSLAW M	ADJUVANT UTERINE CANCER CHEMOTHERAPY	R01CA 07704-05	SRC	300
INSTITUTION TOTAL	1	300		
NEW YORK STATE DEPARTMENT OF HEALTH -ROSWELL PARK MEMORIAL INSTITUTE				
AMBRUS, CLARA M	GROWTH AND REGENERATION OF THE SPLEEN AND THYMUS	R01CA 07800-04	HEM	21,080
AUSMAN, ROBERT K	PLANNING IN RELATION TO CONTINUUM OF CARE	R01CA 10359-02	NSS	34,461
AUSMAN, ROBERT K	SURGICAL ADJUVANT STATISTICAL SERVICES-DATA PROCESSING	R01CA 10377-02	SRC	87,850
BACK, NATHAN	ACQUIRED RESISTANCE TO FIBRINOLYSIN PREPARATIONS	R01HE 03784-10	HEM	16,870
BELLO, JAKE	STRUCTURE OF CRYSTALLINE RIBONUCLEASE	R01GM 13485-03	BBCB	24,593
BELLO, JAKE	STRUCTURE OF COLLAGEN	R01GM 14004-02	PC	15,126
BOCK, FRED G	CIGARETTE DESIGN AND SMOKE PROPERTIES	R01ES 00286-01	PTHB	41,625
CARRUTHERS, CHRISTOPHER	SKIN PHOSPHOLIPIDS DURING NORMAL AND ABNORMAL GROWTH	R01CA 06107-06S1	MET	5,533
CARRUTHERS, CHRISTOPHER	IMMUNOCHEMICAL LOCALIZATION OF EPIDERMAL STRUCTURES	R01CA 07236-05	PTHB	17,886
COSTA, GIOVANNI	STUDY OF SYSTEMIC EFFECTS OF TUMORS	R01CA 07051-05	PTHB	39,032
COUTSOGEOGPOPOULOS, C	PROTEIN BIOSYNTHESIS SELECTIVE INHIBITORS	R01GM 12276-04	MBC	31,383
DAO, THOMAS L	STUDY OF CARCINOGEN INDUCED BREAST CANCER IN THE RAT	R01CA 04632-10	PTHB	78,795
DAO, THOMAS L	STEROID CONJUGATION IN MAMMARY CANCER	R01CA 08219-04	PHRB	26,908
DAO, THOMAS L	A COOPERATIVE STUDY IN BREAST CANCER HORMONAL THERAPY	R10CA 04595-08A1	SRC	39,521

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INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRG	DOLLARS
NEW YORK—(CON.)				
DAVIDSON, RONALD G	DOSAGE PHENOMENA IN SEX-LINKED AND AUTOSOMAL VARIANTS	RO1GM 15874-04	GEN	23,670
FIEL, ROBERT J	BIOLOGICAL ACTIVITY OF NEW VITAMIN B12 ANALOGS	RO1CA 10191-02	NTN	22,819
GLICK, J LESLIE	INHIBITION OF TUMOR GROWTH BY EXOGENOUS NUCLEIC ACIDS	RO1CA 08763-03	PTHB	15,841
GRACE, JAMES T	GENERAL CLINICAL RESEARCH CENTER	MO1FR 00262-03	CLR	349,774
GRACE, JAMES T, JR	VIRUSES IN HUMAN TUMORS	RO1CA 07745-05	VR	121,419
GRACE, JAMES T, JR	GENERAL RESEARCH SUPPORT GRANT	SO1FR 05648-02	NSS	453,705
HAKALA, MAIRE T	CELL CULTURE STUDIES ON DRUGS AND ANTIMETABOLITES	RO1CA 04175-10	PHRB	61,412
HARKER, DAVID	CRYSTAL STRUCTURE OF RIBONUCLEASE	RO1AM 03942-09	BBCB	92,988
HELMSTETTER, CHARLES E	BIOCHEMISTRY & RADIATION EFFECT DURING THE CELL CYCLE	RO1CA 08232-04	RAD	30,781
HOLLAND, JAMES F	CANCER CLINICAL RESEARCH	PO2CA 05834-07	SSS	404,570
HOLLAND, JAMES F	CHEMOTHERAPY OF ACUTE LEUKEMIA	R10CA 02599-14	SRC	216,892
HOLLAND, JAMES F	A COOPERATIVE STUDY OF CANCER CHEMOTHERAPY	R10CA 02821-13	SRC	23,528
HOLLAND, JAMES F	CHEMOTHERAPY OF MAN IN A PROTECTED ENVIRONMENT	R10CA 10044-03	NSS	107,030
HOLLAND, JAMES F	ACUTE LEUKEMIA GROUP B OPERATIONS OFFICE	R10CA 10456-01	SRC	92,980
HOLYOKE, EDWARD D	TUMOR GROWTH AND SPREAD EFFECT OF CATIONIC COMPOUNDS	RO1CA 08686-03	PHRB	14,604
KIRDANI, RASHAD Y	ANALYSIS OF METABOLITES & CONJUGATES IN BILE & URINE	RO1AM 11754-01	GMA	25,068
KLEIN, EDMUND	CHEMOTHERAPEUTIC AGENTS IN CUTANEOUS NEOPLASMS	RO1CA 08678-03	PHRB	46,208
KORYTNYK, WALTER	CHEMISTRY AND PHARMACOLOGY OF VITAMIN B6 ANTAGONISTS	RO1CA 08793-02	PHRB	46,747
LASKOWSKI, M, SR	PROTEOLYTIC ENZYMES	RO1AM 10481-03	BIO	39,746
MARKUS, GABOR	THE PROPERTIES OF NATIVE HUMAN PLASMINOGEN	RO1HE 11442-01	HEM	12,864
MC LIMANS, WILLIAM F	PHYSIOLOGY OF MAMMALIAN CELL ENVIRONMENT INTERACTION	RO1ES 00030-05	SSS	98,688
MIHICH, ENRICO	EXPERIMENTAL THERAPEUTICS AND TUMOR INHIBITORS	RO1CA 04130-10	PHRB	102,802
MIHICH, ENRICO	ANTILEUKEMIC BISGUANYLHYDRAZONES AND RELATED COMPOUNDS	RO1CA 10805-01	PHRB	72,299
MINOWADA, JUN	VIROLOGICAL STUDIES OF CULTURED HEMATOPOIETIC CELLS	RO1CA 10465-01	VR	42,334
MOORE, GEORGE E	SURGICAL ADJUVANT BREAST FOLLOW-UP	RO1CA 04180-10	SRC	32,372
MOORE, GEORGE E	COOPERATIVE STUDY OF BREAST CANCER THERAPY	RO1CA 05848-07	SRC	255,246
MOORE, GEORGE E	STUDIES OF HUMAN AND OTHER MALIGNANT CELLS	RO1CA 08204-03S1	PTHB	29,870
NICHOL, CHARLES A	COMPONENTS OF VIRAL AND TUMOR NUCLEIC ACIDS	RO1CA 04640-08S1	BIO	22,049
PINE, MARTIN J	ACTIONS OF PHTHALANILIDES AND CHEMOTHERAPEUTIC ALLIES	RO1CA 07777-05	PHRB	26,828
PRESSMAN, DAVID	THE CHEMICAL NATURE OF THE SPECIFIC ANTIBODY SITE	RO1AI 02342-07S1	AIA	2,457
PRESSMAN, DAVID	THE CHEMICAL NATURE OF THE SPECIFIC ANTIBODY SITE	RO1AI 02342-10	ALY	42,713
PRESSMAN, DAVID	THE STRUCTURE AND FORMATION OF ANTIBODY MOLECULES	RO1AI 03962-08	ALY	35,309
PRESSMAN, DAVID	SPECIFICITIES OF ANTIBODIES AGAINST VARIOUS ORGANS	RO1AI 05158-03S1	IMB	2,646
PRESSMAN, DAVID	SPECIFICITIES OF ANTIBODIES AGAINST VARIOUS ORGANS	RO1AI 05158-04S1	IMB	2,516
PRESSMAN, DAVID	IMMUNOGLOBULIN PRODUCTION IN CULTURED CELL LINES	RO1AI 08472-01	ALY	42,832
PRIORE, ROGER L	APPLICATIONS OF MODELS IN ANALYSES OF TUMOR RESPONSE	RO1CA 10334-01	SSS	33,049
ROSEN, FRED	CORTICOSTEROIDS AND TRANSAMINASE ENZYMES	RO1AM 04389-08	PC	45,142
ROSEN, FRED	CORTICOSTEROID INDUCED CHANGES IN LYMPHOID TUMORS	RO1CA 05671-08	PHRB	41,119
SANDBERG, AVERY A	PROTEIN BINDING AND BILIARY EXCRETION OF STEROIDS	RO1AM 01240-12	END	59,935
SARCIONE, EDWARD J	BIOSYNTHESIS OF SERUM GLYCOPROTEINS BY LIVER	RO1AM 04961-08	MET	31,421
SINKS, LUCIUS F	CHEMOTHERAPY OF ACUTE LEUKEMIA	R10CA 07918-04	SRC	53,798
SLACK, NELSON H	FACTORS INFLUENCING THE COURSE OF MALIGNANT DISEASES	RO1CA 10331-02	SRC	55,948
SLACK, NELSON H	SURGICAL ADJUVANT STATISTICAL SERVICES - ANALYSIS	RO1CA 10378-02	SRC	33,468
SLAUNWHITE, W ROY JR	ESTROGEN METABOLISM IN NORMAL AND CANCEROUS PERSONS	RO1CA 10726-02	END	31,094
SLAWSON, MARLENE	PROJECTION OF NURSING CARE REQUIREMENTS	RO2NU 00295-01	NR	42,189
SOKAL, JOSEPH E	ROLE OF THE LIVER IN CARBOHYDRATE METABOLISM	RO1AM 01646-11	MET	21,864
TIECKELMANN, HOWARD	SYNTHESIS AND EVALUATION OF ANTIMETABOLITES	RO1CA 02857-12	PHRB	71,393
TRITSCH, GEORGE L	GROWTH STIMULATION AND INHIBITION OF CULTURED CELLS	RO1AM 07787-05	MBY	9,177
WEINFELD, HERBERT	METABOLIC STUDIES IN HUMAN LEUKEMIA	RO1CA 02877-11S1	PHRB	34,741
WENNER, CHARLES E	OXIDATIVE METABOLISM IN NEOPLASTIC TISSUE	RO1CA 05115-08	PC	7,556
WERKHEISER, WILLIAM C	CELLULAR PHARMACOLOGY OF FOLATE ANTAGONISTS	RO1CA 05298-08	PHRB	45,768
WOLDRING, SABBO	CONTINUOUS IN VIVO MEASUREMENT OF DISSOLVED GASES	RO1HE 11402-01	CVB	82,250
WOODRUFF, MARVIN W	ADJUVANTS IN THE TREATMENT OF BLADDER CARCINOMA	RO1CA 07361-05	SRC	14,377
YOHN, DAVID S	PROPERTIES OF A VIRUS CAUSING PRIMATE HISTIOCYTOMAS	RO1CA 07998-03S1	VR	8,510
YOHN, DAVID S	IMMUNOLOGICAL STUDIES ON YABA TUMOR POXVIRUS	RO1CA 07998-04A1	VR	41,925
ZAKRZEWSKI, SIGMUND F	BIOCHEMICAL BASIS OF DRUG RESISTANCE	RO1CA 02906-12	PHRB	79,246
INSTITUTION TOTAL	70	4,338,240		
NEW YORK STATE UNIVERSITY OF AT BUFFALO				
ADLER, RICHARD H	COLLAGEN PROSTHESES FOR WOUND AND TISSUE SUPPORT	RO1AM 09570-03	SCYB	21,732
ANDERSEN, MURRAY N	HEMOGLOBIN CLEARANCE IN OPEN HEART SURGERY	RO1HE 09268-03	SCYB	29,912
ARBESMAN, CARL E	EFFECT OF SPECIFIC HYPOSENSITIZATION THERAPY	RO1AI 01303-12	IMB	57,576
ATASSI, M ZOUHAIR	IMMUNOCHEMICAL STUDIES ON HUMAN HEMOGLOBINS	RO1AM 08804-04	ALY	53,156
AXELROD, SEYMOUR	BILATERAL PROCESSES IN AUDITION AND SOMESTHESIS	RO1NB 06862-02	CMS	14,882
BACK, NATHAN	VASOACTIVE REGULATORS IN TUMOR TISSUE	RO1HE 11492-01	PHRB	36,414
BAHL, OM P	CHEMICAL & BIOLOGICAL STUDIES ON CHORIONIC GONADOTROPIN	RO1AM 10273-02	BIO	21,677
BAKAY, LOUIS	STUDY OF BLOOD-BRAIN BARRIER WITH RADIOACTIVE ISOTOPES	RO1NB 03754-07	NEUA	22,882
BANNERMAN, ROBIN M	HEME METABOLISM WITH REFERENCE TO THALASSEMIA	RO1AM 10485-03	HEM	33,049
BARDOS, THOMAS J	BIOCHEMICAL PARAMETERS OF HUMAN NEOPLASMA	RO1CA 05522-06S1	PHRB	15,730
BARDOS, THOMAS J	CHEMICAL AND BIOLOGICAL STUDIES IN CANCER CHEMOTHERAPY	RO1CA 06695-06	PHRB	94,987
BARNARD, ERIC A	AUTORADIOGRAPHIC CYTOCHEMISTRY	RO1GM 11754-05	MBY	43,269
BARRON, ALMEN L	BIOLOGIC AND SEROLOGIC PROPERTIES OF TRACHOMA AGENT	RO1NB 07082-02	VR	47,224
BEEREL, FREDERICK R	HYPERBARIC OXYGENATION IN PULMONARY TUBERCULOSIS	RO1AI 08118-01	BM	25,809

TABLE 2—RESEARCH GRANTS, BY AREA, INSTITUTION, AND PRINCIPAL INVESTIGATOR

INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRG	DOLLARS
NEW YORK—(CON.)				
BERNARDIS, LEE L	GROWTH, DEVELOPMENT AND THE HYPOTHALAMUS	R01HD 03331-01	END	34,586
BEUTNER, ERNST H	AUTOIMMUNITY IN BULLOUS SKIN DISEASES	R01AM 10537-03	IMB	47,400
BOYLAN, JOHN W	MECHANISMS OF PROTEINURIA A MICROPUNCTURE STUDY	R01AM 12310-01	GMB	32,019
BRODIE, JONATHAN D	CHEMICAL AND ENZYMIC STUDIES OF B12 COENZYMES	R01GM 10479-03	PC	22,780
BRUCK, ERIKA	RESPIRATORY WATER LOSS IN INFANTS AND CHILDREN	R01HD 00661-07S1	GMA	2,062
CALKINS, EVAN	RHEUMATIC METABOLIC AND INHERITED DISEASES	P01AM 05581-07	AMP	267,695
CALKINS, EVAN	EXPERIMENTAL CLINICAL INVESTIGATION PROGRAM IN R A	R01AM 12040-02	SSS	20,664
CIANCIO, SEBASTIAN G	MUCOPOLYSACCHARIDES IN GINGIVITIS AND PERIODONTITIS	R01DE 02288-02	DEN	13,947
CLARK, H FRED	BIOLOGY OF LUCKE FROG TUMOR-ASSOCIATED VIRUSES	R01CA 08737-03	VR	28,410
COOPER, STEPHEN	THE DIVISION CYCLE IN ESCHERICHIA COLI	R01AI 08174-01	MCB	24,281
CORAH, NORMAN L	CORRELATES OF STRESS IN DENTISTRY	R01DE 02639-01A1	CPR	28,876
CORTNER, JEAN A	GENERAL CLINICAL RESEARCH CENTER - CHILDREN	M01FR 00077-06	CLR	213,229
DANIELI, JAMES F	THEORY AND MOLECULAR MECHANISMS OF CELLS	P01GM 11603-05	GMP	281,667
ELLIOTT, WILLARD B	PROPERTIES OF CYTOCHROME OXIDASE	R01GM 06241-10	PC	42,529
ELLISON, SOLON A	ORAL BACTERIA AND PERIODONTAL DISEASE	R01DE 01932-05	DEN	29,140
EWELL, RAYMOND	BIOMEDICAL SCIENCES SUPPORT	S05FR 07066-03	NSS	69,173
FARNSWORTH, WELLS E	ESTROGEN-ANDROGEN RELATIONSHIPS IN THE PROSTATE	R01CA 02487-13	END	12,350
FEDOR, LEO R	ELIMINATION REACTIONS OF BETA-SUBSTITUTED THIOLESTERS	R01AM 11403-02	MCHA	16,284
FINNEGAN, RICHARD A	CHEMISTRY OF ORGANIC NATURAL PRODUCTS	R01GM 11412-06	MCHB	29,042
FROHMAN, LAWRENCE A	CENTRAL NERVOUS SYSTEM CONTROL OF BLOOD GLUCOSE	R01AM 11456-02	END	15,298
GEISSER, SEYMOUR	MULTIVARIATE ANALYSIS TECHNIQUES	R01GM 14031-03	SSS	31,701
GENCO, ROBERT J	ANTIBODIES OF SALIVA AND OTHER SECRETIONS	R01DE 02814-01	ALY	31,326
GESSNER, TERESA	SELECTIVE TOXICITY AN APPROACH TO ENVIRONMENTAL HEALTH	R01ES 00013-04	TOX	40,191
GIBALDI, MILO	EFFECT OF BILE ON DRUG ABSORPTION	R01AM 11498-01	GMA	28,804
GOLDMAN, JACK K	EFFECTS OF GROWTH HORMONE ON LIPID METABOLISM	R01AM 11746-01	MET	16,871
GOREAU, THOMAS F	SYMBIOSIS OF TROPICAL ZOANTHIDEA AND ZOOXANTHELLAE	R01AM 13134-01	SSS	6,933
GREEN, FLOYD A	ERYTHROCYTE MEMBRANE SULFHYDRYLS AND RH ACTIVITY	R01HD 02370-02	HEM	11,623
GREEN, LARRY J	LONGITUDINAL PHYSICAL GROWTH STUDY OF HUMAN TWINS	R01DE 02713-01	DEN	37,826
GREENE, DAVID G	MYOCARDIAL FUNCTION FROM VOLUME PRESSURE MEASUREMENTS	R01HE 07539-06	CVB	48,869
GUTHRIE, ROBERT	INHIBITION ASSAY-DETECTION AND STUDY OF INBORN ERRORS	R01NB 05290-05	GEN	48,074
HARE, CURTIS R	STEREOCHEMISTRY OF AMINO ACID-METAL COMPLEXES	R01GM 13962-03	MCHB	26,189
HASS, LOUIS F	CORRELATION OF ENZYME STRUCTURE AND FUNCTION	R01AM 08130-05	BIO	12,601
HAYES, WILLIAM N	STUDIES OF THE VISUAL SYSTEM	R01NB 05001-05	VIS	22,949
HECHT, AMY B	THE EFFECT OF NURSETEACHING ON PATIENT DRUG ERRORS	R21NU 00298-01	NR	19,552
HOFFMAN, JOSEPH G	INFRARED MICROSPPECTROPHOTOMETRY OF TISSUE CELLS	R01GM 11689-04	BBCA	37,345
HULLAR, THEODORE L	POTENTIAL ANTIMETABOLITES OF PYRIDOXAL PHOSPHATE	R01AM 10234-03	MCHA	25,203
HULLAR, THEODORE L	ANALOGS OF FEEDBACK CONTROL AGENTS	R01CA 10315-01	MCHA	28,292
JENSEN, ROY A	THE COMPARATIVE ENZYMOLOGY OF A BRANCH POINT ENZYME	R01AM 11101-02	PC	16,104
JONES, OLIVER P	ULTRASTRUCTURAL CHANGES IN EMBRYONIC & LEUKEMIC CELLS	R01CA 03458-11	MBY	26,274
JUCHAU, MONT R	METABOLISM OF DRUG SUBSTRATES BY HUMAN PLACENTA	R01HD 02991-02	PHRA	16,867
KLINGMAN, GERDA I	SIGNIFICANCE OF CATECHOLAMINES IN PERIPHERAL TISSUES	R01AM 06594-06	PHRA	22,870
KLOCKE, FRANCIS J	GAS CHROMATOGRAPHY EVALUATION OF CIRCULATORY FUNCTION	R01HE 09587-04	PHY	23,308
KOENIG, EDWARD	COMPARATIVE NEURAL RNA METABOLISM	R01NB 04656-06	NEUB	18,433
KOENIG, EDWARD	VISUAL CELL RNA DURING DIFFERENTIATION	R01NB 05253-05	VIS	18,331
KOHN, ROBERT M	COOPERATIVE STUDY OF DRUGS AND CORONARY HEART DISEASE	R01HE 10442-03	SRC	28,220
LANGELAND, KAARE	BIOLOGIC STUDY OF EFFECT OF DENTAL FILLING MATERIALS	R01DE 02006-03S3	DEN	15,850
LANGELAND, KAARE	BIOMATERIALS IN DENTISTRY	R01DE 02006-04A1	DEN	55,266
LEIBOVIC, K NICHOLAS	BIOMATHEMATICAL RESEARCH ON SENSORY COMMUNICATION	R01NB 06682-02	SSS	25,627
LOEWUS, FRANK A	INOSITOL METABOLISM IN PLANTS	R01GM 12422-04	MBY	46,590
MC ISAAC, ROBERT J	BINDING OF ORGANIC BASES BY KIDNEY TISSUE	R01AM 08018-04	PHRA	21,103
MC ISAAC, ROBERT J	TRANSMITTER RELEASE FROM THE SYMPATHETIC GANGLION	R01NB 06990-02	PHRA	19,092
MILES, PHILIP G	MORPHOLOGICALLY ABERRANT FUNGAL MYCELIA	R01AI 06570-04	BM	27,683
MILGROM, FELIX	HUMORAL ANTIBODIES ACCOMPANYING HOMOGRAFTS	R01AI 06754-04	IMB	60,203
MINDALL, EUGENE R	INTERMITTENT COMPRESSION ON CONNECTIVE TISSUE	R01AM 07545-05	SGYB	17,537
MIRAND, EDWIN A	STUDIES ON A VIRALLY INDUCED POLYCYTHEMIA	R01CA 08847-02	HEM	41,130
MOHN, JAMES F	BLOOD GROUP ANTIGENS AND ANTIBODIES	R01HE 05351-08	HEM	60,880
MURRAY, DANIEL H	GENERAL RESEARCH SUPPORT GRANT	S01FR 05454-06	NSS	111,503
NICHOLLS, PETER	REACTIONS OF HEMOPROTEINS	R01GM 11691-05	PC	25,531
NOELL, WERNER K	VULNERABILITY OF THE RETINA TO LIGHT AND OTHER AGENTS	R01NB 06027-04	VIS	58,263
NOLAN, JAMES P	ROLE OF RETICULOENDOTHELIAL FUNCTION IN LIVER DISEASE	R01AM 09524-02	PTHB	25,575
PADWA, ALBERT	HETEROCYCLIC SMALL RING COMPOUNDS	R01GM 13990-02	MCHA	27,235
PHIPPS, GRANT T	GENERAL RESEARCH SUPPORT GRANT	S01FR 05330-07	NSS	48,112
RALSTON, ANTHONY	SUPPORT OF COMPUTING CENTER	P07FR 00126-05	COM	133,405
RECHNITZ, GARRY A	ANALYSIS FOR UNIVALENT CATIONS IN SUB-PPM LEVELS	R01GM 14544-02	BBC	17,346
REEVES, ROBERT B	CONTROL OF ENERGY METABOLISM IN WORKING MYOCARDIUM	R01HE 10920-02S1	PHY	2,922
REEVES, ROBERT B	CONTROL OF ENERGY METABOLISM IN WORKING MYOCARDIUM	R01HE 10920-03	PHY	1,159
REICHLIN, MORRIS	IMMUNOCHEMISTRY OF HEMOGLOBIN VARIANTS	R01AM 10428-03	ALY	37,243
RENNICK, BARBARA R	ACTIVE TRANSPORT OF ORGANIC BASES BY THE RENAL TUBULE	R01AM 10420-03	PHY	38,574
RENNIE, DONALD W	HUMAN TEMPERATURE REGULATION IN WATER	R01GM 14337-02	AFY	17,993
RINGWALL, EGAN A	BEHAVIORAL CORRELATES OF INFANT VOCALIZATIONS	R01NB 04923-05	CMS	51,750
ROSE, NOEL R	IMMUNOLOGICAL ANALYSIS OF CELLS CULTURED IN VITRO	R01CA 05203-09	ALY	65,501
ROTHSTEIN, MORTON	BIOCHEMISTRY OF NEMATODES AND OTHER INVERTEBRATES	R01AI 07145-04	TMP	30,401
SANTILLI, VINCENT	MECHANISM OF CROWN GALL TUMOR FORMATION	R01CA 10305-02	VR	36,750

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INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRC	DOLLARS
NEW YORK—(CON.)				
SCHENK, WORTHINGTON G. JR	HEMODYNAMICS AS APPLIED TO SURGICAL PROBLEMS	ROIHE 03181-11	SGYA	53,058
SCHNATZ, I. DAVID	LIPOLYTIC ACTIVITY IN ADIPOSE TISSUE	ROIAM 06872-06	PC	28,459
SCHUSSLER, GEORGE C	SERUM THYROXINE BINDING AND THYROXINE TURNOVER	ROIAM 11454-02	END	25,675
SCHUSTER, TODD M	MECHANISM OF LIGAND BINDING TO HEMOGLOBIN	ROIHE 11425-01	BBCA	44,790
SCHWARTZ, MICHAEL A	KINETICS OF REACTIONS INVOLVED IN PENICILLIN ALLERGY	ROIAI 06173-05	ALY	13,779
SCHWARTZ, MICHAEL A	STUDIES ON MODEL CATALYSTS RELATED TO PENICILLINASE	ROIAI 06901-03	MCHA	22,483
SEGAL, HAROLD L	ENZYMIC RESPONSES TO ALTERED ENDOCRINE STATES	ROIAM 08873-02S1	PC	12,000
SEGAL, HAROLD L	ENZYMIC RESPONSES TO ALTERED ENDOCRINE STATES	ROIAM 08873-04	PC	79,058
SHEFTER, ELI	STRUCTURAL STUDIES ON NUCLEIC ACID RELATED PROBLEMS	ROIKA 10104-02	BBCA	24,290
SIEGEL, RUDOLPH E	PHYSIOLOGY AND MEDICAL EXPERIENCE	ROI1M 00011-03	HLS	18,710
SKELTON, FLOYD R	PATHOGENESIS OF EXPERIMENTAL HYPERTENSION	ROIHE 06975-07	PTHB	195,933
SMITH, CEDRIC M	DRUG EFFECTS ON MUSCLE AFFERENT SYSTEMS	ROI1NB 07177-02	NEUB	38,418
SOLO, ALAN J	ATOM-BRIDGED-RING ANALOGS OF STEROID HORMONES	ROIAM 06900-06	MCHA	21,568
SOLO, ALAN J	AGENTS FOR ALKYLATING STEROID HORMONE RECEPTOR SITES	ROIKA 10116-01A1	MCHA	25,128
SORENSEN, SOREN E	EFFECT OF IMPURITIES ON DENTAL CASTING ALLOYS	ROI1DE 02114-05	DEN	24,146
STAPLE, PETER H	ORAL AND OTHER TISSUE REACTIONS TO DIPHENYHYDANTOIN	ROI1DE 02091-04	DEN	23,911
STRAUS, DAVID B	THE BIOCHEMISTRY OF SYNTHETIC POLYNUCLEOTIDES	ROI1GM 14003-02	PC	33,522
SURGENOR, DOUGLAS M	GENERAL RESEARCH SUPPORT GRANT	SOIFR 05400-07	NSS	304,345
TERPLAN, KORNEL L	HISTOPATHOLOGIC PATTERNS IN BRAIN	ROI1NB 07388-02	PTHA	27,409
TIECKELMANN, HOWARD	BIOSYNTHESIS OF THE THIAMINE PYRIMIDINE	ROIKA 07793-05	BIO	14,534
TIECKELMANN, HOWARD	ALKYLATION STUDIES IN PYRIMIDINES	ROIKA 10746-04	MCHB	21,046
TOMASI, THOMAS B. JR	THE IGA GLOBULINS OF SERUM AND EXTERNAL SECRETIONS	ROIAM 10419-03	ALY	81,478
TRIGGLE, DAVID J	DRUG DESIGN AND TUMOR ENZYME ACTIVITY	ROIKA 06645-06	PHRB	52,509
TRIGGLE, DAVID J	DEUTERIUM ISOTOPE EFFECTS AND BIOLOGICAL RESPONSES	ROI1GM 14084-03	MCHA	20,117
TRIGGLE, DAVID J	THE DESIGN OF HYPOTENSIVE 2-HALOGENOETHYLAMINES	ROIHE 09336-03	PHRA	18,196
VAN OSS, CAROL J	SEPARATION OF BLOOD PROTEINS BY ULTRAFILTRATION	ROI1GM 16256-01	BBCB	26,734
WEBBER, RICHARD H	AUTONOMIC NERVOUS SYSTEM AND HIBERNATION	ROI1NB 06437-03	NEUB	19,400
WINZLER, RICHARD J	CHEMISTRY AND METABOLISM OF SERUM GLYCOPROTEINS	ROIKA 08492-03	BIO	55,950
WITEBSKY, ERNEST	SEROLOGICAL SPECIFICITY OF NORMAL AND CANCER TISSUES	ROIKA 02357-13S1	IMB	56,309
WITEBSKY, ERNEST	AUTOIMMUNE RESPONSES TO NORMAL AND MALIGNANT TISSUES	ROIKA 02357-14	IMB	229,903
ZELIN, MARVIN	STATISTICAL MODELS OF BIOMEDICAL PHENOMENA	ROIKA 10810-01	SSS	44,737
ZOBEL, C. RICHARD	THE MOLECULAR ARCHITECTURE OF MUSCLE A-BAND FILAMENTS	ROIAM 07635-05	PHY	28,098
INSTITUTION TOTAL	119	5,200,044		
RESEARCH FOR HEALTH IN ERIE COUNTY				
BOYLAN, JOHN W	FUNCTION REQUIREMENTS OF RAT NEPHRON PERFUSED IN SITU	ROIAM 10779-02	PHY	13,806
FERENCZ, CHARLOTTE	THE NORMAL GROWTH OF PULMONARY VESSELS	ROIHE 08819-03S1	PTHA	6,666
GABRIELI, E. R	RETICULO-ENDOTHELIAL FUNCTIONAL TESTS IN HUMANS	ROIAI 05271-05	PTHA	36,240
INSTITUTION TOTAL	3	56,712		
SISTERS OF CHARITY HOSPITAL				
HRESHCHYSHYN, MYROSLAW M	ADJUVANT UTERINE CANCER CHEMOTHERAPY	ROIKA 07705-05	SRC	960
INSTITUTION TOTAL	1	960		
CANTON				
ST. LAWRENCE UNIVERSITY				
AUSTER, DONALD	MEN WHO ENTER NURSING A SOCIOLOGICAL STUDY	R21NU 00222-02	NR	24,768
INSTITUTION TOTAL	1	24,768		
CLINTON				
HAMILTON COLLEGE				
GESCHIEDER, GEORGE A	SOME PSYCHOPHYSICAL EXPERIMENTS ON THE SENSE OF TOUCH	ROI1NB 07620-03	EXP	4,325
INSTITUTION TOTAL	1	4,325		
COLD SPG HBR				
COLD SPRING HARBOR LABORATORY OF QUANTITATIVE BIOLOGY				
CAIRNS, JOHN	COLD SPRING HARBOR SYMPOSIA ON QUANTITATIVE BIOLOGY	R13CA 02809-13	GEN	10,545
INSTITUTION TOTAL	1	10,545		
COOPERSTOWN				
MARY IMOGENE BASSETT HOSPITAL				
ASHLEY, CHARLES A	ULTRASTRUCTURE IN CARCINOGENESIS & PROTEIN SYNTHESIS	ROIKA 07261-05	PTHB	17,348
ASHLEY, CHARLES A	GENERAL RESEARCH SUPPORT GRANT	SOIFR 05498-06	NSS	53,083
BLUMENSTOCK, DAVID A	IN VITRO PRESERVATION OF ORGANS AND TISSUES	ROIKA 06765-05S1	SGYB	8,352
FERREBEE, JOSEPH W	SPARE PARTS—HOMOGRAFTS OF BONE MARROW	ROIAM 02215-10	IMB	59,828
MITHOEFER, JOHN C	PHYSIOLOGICAL AND METABOLIC EFFECTS OF HYPOXIA	ROIHE 09130-04	PHY	15,237
PETERS, THEODORE, JR	THE CLINICAL SIGNIFICANCE OF BLOOD AMINO ACID LEVELS	ROIAM 10189-03	NTN	10,291
PETERS, THEODORE, JR	SYNTHESIS AND SECRETION OF SERUM ALBUMIN	ROIHE 02751-11S1	BIO	1,431
PETERS, THEODORE, JR	SYNTHESIS AND SECRETION OF SERUM ALBUMIN	ROIHE 02751-12	BIO	12,600
INSTITUTION TOTAL	8	178,170		
CORTLAND				
NEW YORK STATE UNIVERSITY OF-COL AT CORTLAND				
SPINK, CHARLES H	HELICAL POLYPEPTIDES IN SOLUTION	ROI1GM 15696-01	BBCA	6,608

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INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRG	DOLLARS
NEW YORK—(CON.)				
INSTITUTION TOTAL	1	6,608		
ELMIRA				
ELMIRA COLLEGE				
WHITNEY, RAE	STUDY OF GENETIC FACTORS IN SYRIAN HAMSTERS	R01GM 11445-05	GEN	10,521
INSTITUTION TOTAL	1	10,521		
GARDEN CITY				
ADELPHI UNIVERSITY				
BETTELHEIM, FREDERICK A	STRUCTURAL PROPERTIES OF BIOPOLYMERS	R01HD 01249-10S1	BBCB	4,800
INSTITUTION TOTAL	1	4,800		
GENEVA				
CORNELL UNIVERSITY				
BOURKE, JOHN B	METABOLISM AND TOXICOLOGY OF PESTICIDES	R01ES 00211-02	TOX	12,087
SHALLENBERGER, ROBERT S	FREE SUGARS IN FOODS OF PLANT ORIGIN	R01AM 10469-03	NTN	25,120
INSTITUTION TOTAL	2	37,207		
HEMPSTEAD				
HOFSTRA UNIVERSITY				
AGNELLO, EUGENE J	STEROID SIDE-CHAIN TRANSFORMATIONS	R01AM 10853-02	MCHA	9,252
WINSTEN, WALTER A	SRNA CHROMATOGRAPHY SPECIFIC COUNTERION EFFECTS	R01GM 14298-02	MCHB	17,075
INSTITUTION TOTAL	2	26,327		
ITHACA				
CORNELL UNIVERSITY				
ALBRECHT, ANDREAS C	BASIC PHOTOELECTRIC STUDIES IN ORGANIC SOLID STATE	R01GM 10865-09	BBC	48,640
ANDERS, M W	INHIBITION OF DRUG METABOLISM BY PESTICIDES	R01GM 13527-03	PHRA	15,526
ANDERS, MARION W	STEREOCHEMISTRY OF MICROSOMAL DRUG METABOLISM	R01AM 11792-01	PHRB	28,552
ARONSON, ARTHUR L	TOXICITY STUDIES WITH A CHELATING AGENT (CAEDTA)	R01HE 10054-03S1	TOX	3,124
BARNES, RICHARD H	EFFECTS OF MALNUTRITION IN EARLY LIFE	R01HD 02581-08	NTN	43,040
BATEMAN, DURWARD F	PHYSIOLOGY AND BIOCHEMISTRY OF FUNGAL INFECTIONS	R01AI 04930-06	MCB	28,082
BERGMAN, EMMETT N	CARBOHYDRATE AND KETONE BODY METABOLISM IN RUMINANTS	R01AM 05976-07	MET	32,784
BLACKLER, ANTONIE W	ORIGIN AND POTENTIALITY OF EMBRYONIC SEX CELLS	R01HD 01663-03	CBY	18,774
CADE, THOMAS J	PHYSIOLOGICAL ADAPTATION TO DESERT CONDITIONS	R01ES 00261-01S1	SSS	7,795
CADE, THOMAS J	PESTICIDE EFFECTS ON AVIAN STEROIDS AND REPRODUCTION	R01ES 00306-01	TOX	17,605
CALNEK, BRUCE W	STUDIES ON THE AVIAN LEUKOSIS COMPLEX	R01CA 06709-06	VR	34,879
CARMICHAEL, LELAND E	VIRAL PATHOGENESIS AND CHRONIC EFFECTS OF PERSISTENCE	R01AI 07516-02	VR	42,220
COMAR, C L	COMPUTER RESEARCH RESOURCE	P07FR 00326-02	COM	70,440
DANIEL, LOUISE J	VITAMIN B12 NUTRITION AND METABOLISM	R01AM 03505-09	NTN	18,832
DELWICHE, EUGENE A	ENERGY METABOLISM AND BIOSYNTHESIS IN VEILLONELLA	R01AI 07852-02	MCB	15,932
DU VIGNEAUD, VINCENT	AMINO ACIDS, POLYPEPTIDES AND RELATED COMPOUNDS	R01HE 11680-01	PC	89,106
DU VIGNEAUD, VINCENT	AMINO ACIDS, POLYPEPTIDES AND RELATED COMPOUNDS	R01HE 11680-02	PC	100,362
EISNER, THOMAS	DEFENSIVE SECRETIONS OF ARTHROPODS	R01AI 02908-09	TMP	38,236
FABRICANT, JULIUS	ISOLATION AND IDENTIFICATION OF MYCOPLASMA	R01AI 07819-02	BM	23,808
FEDERER, WALTER T	BIOMETRY OF DISEASE	R01GM 05900-10	EDC	25,013
FESSENDEN-RAOEN, JUNE M	COUPLING FACTORS IN OXIDATIVE PHOSPHORYLATION	R01AM 11715-02	PC	25,863
FINK, GERALD R	GENETIC CONTROL OF HISTIDINE BIOSYNTHESIS IN YEAST	R01GM 15408-01	GEN	22,760
FOOTE, ROBERT H	MATURATION, METABOLISM AND AGING OF GAMETES	R01HD 03471-06	REB	37,980
FREED, JACK H	LIQUID PHASE MOLECULAR RELAXATION BY ESR	R01GM 14123-02	BBCB	32,645
GASTEIGER, EDGAR L	ANALYSIS OF ELECTRICAL SIGNS OF HIGHER FUNCTION	R01NB 05381-03S1	NEUA	18,608
GAYLOR, JAMES L	STEROL BIOSYNTHESIS	R01AM 10767-02	END	32,776
GIBSON, QUENTIN H	KINETICS OF INTERMEDIATES IN SOLUBLE ENZYME SYSTEMS	R01GM 14276-04	BBC	75,809
GILLESPIE, JAMES H	CLASSIFICATION OF VIRUSES OF ANIMAL ORIGIN	R01AI 06137-05	VR	43,734
GOLDSTEIN, MELVIN J	THE BICYCLO 3 2 2 NONATRIENYL SYSTEM	R01CA 10495-01	MCHA	35,525
GUILLORY, RICHARD J	GUANIDINES AND OXIDATIVE PHOSPHORYLATION	R01AM 10758-02	BIO	11,205
HALPERN, BRUCE P	BULBAR RESPONSES TO TASTE STIMULATION	R01NB 06945-02	PHY	28,815
HAMMES, GORDON G	STUDIES OF ENZYME-SUBSTRATE COMPLEXES	R01GM 12944-03S1	BIO	3,744
HAMMES, GORDON G	KINETICS OF PHYSIOLOGICALLY IMPORTANT REACTIONS	R01GM 13292-04	BBCA	74,184
HANSEL, WILLIAM	IMMUNOASSAY OF LH IN BLOOD	R01HD 02765-02	END	37,491
HEPPEL, LEON A	RNA METABOLISM AND ENZYME LOCALIZATION	R01AM 11789-01	PC	39,375
HESS, GEORGE P	STRUCTURAL AND FUNCTIONAL RELATIONSHIPS IN ENZYMES	R01GM 04842-12	BIO	32,328
HOARD, JAMES L	X-RAY DIFFRACTION STUDIES OF TETRAPYRROLE SYSTEMS	R01GM 09370-07	BBCA	77,900
HOFFMANN, ROALD	THEORETICAL STUDY OF PHOTOCHEMISTRY AND CONFORMATIONS	R01GM 13468-03	BBCA	30,540
HOLLEY, ROBERT W	STRUCTURES OF TRANSFER RNA S	R01GM 13018-04	PC	50,340
HUDSON, JACK W	METABOLIC AND CARDIOVASCULAR ADAPTATIONS TO CLIMATE	R01GM 15889-01	PHY	24,200
HUGHES, ROBERT E	X-RAY STRUCTURE ANALYSIS PEPTIDES AND MACROMOLECULES	R01GM 14832-02	BBCB	61,659
JAGENDORF, ANDRE T	PROTON TRANSLOCATION AND ENZYMOLOGY IN PHOTOSYNTHESIS	R01GM 14479-02	BIO	36,573
KELLER, ELIZABETH B	THE MECHANISM OF THE BIOSYNTHESIS OF PROTEINS	R01GM 10791-07	BIO	30,780
KORMAN, RUTH Z	GENETIC CONTROL IN STAPHYLOCOCCUS	R01AI 08125-01	MCB	21,917
LEONARD, SAMUEL L	HORMONES AND BIOCHEMICAL CONSTITUENTS OF TISSUES	R01AM 04965-08	MET	13,608
LONG, FRANKLIN A	BIOMEDICAL SCIENCES SUPPORT	S05FR 07061-03	NSS	131,028
LYNN, WALTER R	ENVIRONMENTAL SYSTEMS ANALYSIS	P10ES 00098-02S1	SSS	31,572
MAC DONALD, RUSSELL E	THE ROLE OF PERMEABILITY IN BACTERIAL NUTRITION	R01AI 05024-05	BM	8,348

TABLE 2—RESEARCH GRANTS, BY AREA, INSTITUTION, AND PRINCIPAL INVESTIGATOR

INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRG	DOLLARS
NEW YORK—(CON.)				
MC CARTY, RICHARD E	PHOTOPHOSPHORYLATION AND OXYGEN EVOLUTION	R01GM 14409-02	PC	19,841
MC CORMICK, DONALD B	INVESTIGATIONS OF FLAVIN SYSTEMS	R01AM 04585-08	PC	33,812
MC CORMICK, DONALD B	ENZYMATIC DEGRADATION OF BIOTIN	R01AM 08721-04	PC	29,387
MC FARLAND, WILLIAM N	ENVIRONMENTAL CONTROL AND BIOCHEMISTRY OF OPSINS	R01NB 06357-03	VIS	21,711
MEINWALD, JERROLD	HIGH RESOLUTION MASS SPECTROMETER FACILITY	P07FR 00355-02	BBCA	61,061
MEINWALD, JERROLD	CONFORMATIONAL EFFECTS IN SMALL RING COMPOUNDS	R01GM 10090-06	MCHB	31,414
MEINWALD, JERROLD	SYNTHETIC APPLICATIONS OF NEW ACETYLENE REACTIONS	R01GM 14662-02	MCHB	29,250
MORISON, ROBERT S	DEVELOPING BASIC BIOLOGICAL SCIENCES AT CORNELL	S04FR 06002-03	NSS	375,000
MUXFELDT, HANS H	SYNTHESIS OF 6-DEOXY-TETRACYCLINES	R01AI 07626-03	MCHB	50,550
MUXFELDT, HANS H	TOTAL SYNTHESIS OF TERRAMYCIN 6-HYDROXY-TETRACYCLINE	R01AI 07663-02	MCHA	34,850
NEAL, A LESLIE	COMPARATIVE METABOLISM OF MALIGNANT CELLS	R01CA 08155-03S1	BIO	1,254
NELSON, WALTER L	THE IN VITRO METABOLISM OF MAMMARY GLAND TISSUE	R01AM 01316-17	BIO	11,011
NESHEIM, MALDEN C	NUTRITIONAL NEEDS AS INFLUENCED BY GENETIC VARIATION	R01AM 06850-06	NTN	36,217
NESHEIM, MALDEN C	DIETARY PROTEIN INFLUENCE ON INTESTINAL TRACT	R01AM 08202-05	NTN	15,078
O BRIEN, RICHARD D	MECHANISMS OF INSECTICIDE SELECTIVITY	R01GM 07804-08	TOX	68,667
PLANE, ROBERT A	METAL IONS IN TETRAPYRROLES	R01GM 11748-05	MCHB	40,275
POPPIENIEK, GEORGE C	GENERAL RESEARCH SUPPORT GRANT	S01FR 05462-06	NSS	154,484
RACKER, EFRAIM	ENERGY METABOLISM IN NORMAL AND TUMOR CELLS	R01CA 08964-02	PC	191,609
RICKARD, CHARLES G	VIRUS TUMORS	R01CA 06429-07	VR	53,318
RIVERS, JERRY M	ASCORBIC ACID AND MUCOPOLYSACCHARIDE SYNTHESIS	R01AM 08249-05	MET	15,095
ROMANOFF, ALEXIS L	BIOCHEMICO-PATHOLOGICAL STUDIES OF THE AVIAN EMBRYO	R01LM 00495-04	MBY	16,448
ROSS, A F	PHYSIOLOGY OF PLANT VIRUS INFECTIONS	R01AI 02540-10	VR	46,587
SALPETER, MIRIAM M	ULTRA HIGH RESOLUTION AUTORADIOGRAPHY	R01GM 10422-06	CBY	24,306
SCHERAGA, HAROLD A	INTERACTIONS IN SYNTHETIC POLYAMINO ACIDS	R01AM 08465-05	BBCA	21,212
SCHERAGA, HAROLD A	INTERNAL BONDING IN PROTEINS	R01GM 14312-14	BBCB	94,310
SCHERAGA, HAROLD A	EQUILIBRIA IN THE FIBRINOGEN FIBRIN CONVERSION	R01HE 01662-16	BBC	48,600
SCHMIDT, GLEN H	INHIBITION OF MAMMARY GROWTH BY THYROACTIVE MATERIALS	R01HD 01940-03	END	13,126
SCOTT, MILTON L	VITAMIN E, SELENIUM, CYSTINE AND MUSCULAR DYSTROPHY	R01NB 05632-04	NTN	32,124
SEARLE, SHAYLE R	PROPERTIES OF VARIANCE COMPONENT ESTIMATORS	R01GM 13225-03	SSS	12,165
SELLERS, ALVIN F	BLOOD FLOW IN THE RUMINANT STOMACH	R01AM 04679-08	PHY	51,004
SIEGEL, BENJAMIN M	AN ULTRA HIGH RESOLUTION ELECTRON MICROSCOPE	R01GM 12873-03S1	SSS	2,875
SIEGEL, BENJAMIN M	AN ULTRA HIGH RESOLUTION ELECTRON MICROSCOPE	R01GM 12873-04	SSS	66,121
SLOBIN, LAWRENCE I	HETEROGENEITY OF ANTI-HAPTEN ANTIBODIES	R01AI 08242-01	ALY	39,295
SNOOK, JEAN T	DIET AND PANCREATIC ENZYMES IN DEVELOPMENT AND AGING	R01HD 02207-03	NTN	14,320
SRB, ADRIAN M	NUCLEAR AND EXTRANUCLEAR HEREDITY IN NEUROSPORA	R01GM 12953-19	GEN	20,989
STEVENS, CHARLES E	TRANSPORT OF IONS AND FATTY ACIDS BY RUMEN EPITHELIUM	R01AM 09280-04	PHY	21,065
STEWART, FREDERICK C	A PROGRAM OF RESEARCH ON CELLS, METABOLISM AND GROWTH	R01GM 09609-06	CBY	142,538
TAPPER, DANIEL N	NEURAL AND BEHAVIORAL CORRELATES OF SKIN SENSIBILITY	R01NB 07505-01	NEUB	36,840
USHER, DAVID A	ENZYME MODELS RELATED TO RIBONUCLEASE	R01GM 13335-02	MCHA	22,009
VAN DEMARK, P J	NUTRITION AND METABOLISM OF SOME MYCOPLASMA STRAINS	R01AI 02658-09	MBC	18,059
VAN VEEN, ANDRE G	FERMENTED PROTEIN-RICH FOODS	R01AM 08699-04	NTN	27,829
VISEK, WILLARD J	TOXICOLOGICAL STUDIES OF DIELDRIN AND STEROIDS	R01ES 00094-03	TOX	33,660
WASSERMAN, ROBERT H	INTESTINAL ABSORPTION OF MINERAL IONS	R01AM 04652-08	GMB	54,183
WASSERMAN, ROBERT H	SYNTHESIS AND METABOLISM OF RADIOACTIVE VITAMIN D3	R01AM 06271-06	NTN	17,898
WHARTON, DAVID C	PROPERTIES OF CYTOCHROME OXIDASE	R01HE 10633-03	BIO	46,199
WILSON, DAVID B	CONTROL OF UDP GALACTOSE-4-EPIMERASE SYNTHESIS	R01AM 11923-01	BIO	34,305
WINTER, ALEXANDER J	VIRULENCE MECHANISMS OF VIBRIO FETUS	R01HD 02293-02	BM	30,419
WRIGHT, LEMUEL D	BIOSYNTHESIS OF BIOTIN	R01AM 12224-01	PC	19,697
WRIGHT, LEMUEL D	MODERNIZATION OF RESEARCH INSTRUMENTATION	R01HE 04138-08S2	PC	47,483
WU, RAY	CONTROL OF TUMOR METABOLISM IN SYNCHRONIZED CELLS	R01CA 08999-02	PHRB	25,972
ZILVERSMIT, D B	FAT METABOLISM AND EXPERIMENTAL ATHEROSCLEROSIS	R01HE 10933-03	NTN	45,106
ZILVERSMIT, DONALD B	LIPID TRANSPORT	R01HE 10940-03	MET	32,880
INSTITUTION TOTAL	100	4,207,565		
ITHACA COLLEGE				
DE LANNEY, LOUIS E	LARVAL ALLOGRAFT DEVELOPMENT ON ADULT AXOLOTL STRAINS	R01GM 15363-02	CBY	20,637
INSTITUTION TOTAL	1	20,637		
MANHASSET				
NORTH SHORE HOSPITAL				
BORIS, MARVIN	PROTECTION FROM INTRA-FAMILY STAPHYLOCOCCAL DISEASE	R01AI 07109-03	BM	28,940
INSTITUTION TOTAL	1	28,940		
MINEOLA				
NASSAU HOSPITAL				
LI, MIN C	ENHANCING THE EFFECTS OF ANTI-NEOPLASTIC AGENTS	R01CA 08965-02	PHRB	28,959
INSTITUTION TOTAL	1	28,959		
NEW HYDE PARK				
LONG ISLAND JEWISH HOSPITAL				
BENJAMIN, FRED	ENDOCRINE METABOLIC INFLUENCE IN ENDOMETRIAL CARCINOMA	R01CA 11088-01	END	26,429
GOLDMAN, HERBERT I	CENTRAL NERVOUS SYSTEM SEQUELAE OF PREMATURITY	R01HD 02081-02	HED	28,426
KARELITZ, SAMUEL	THE INFANTS VOCALIZATIONS	R01HD 00332-10	DBR	22,395
LAVINE, LEROY S	MICROBIAL CALCIUM METABOLISM AND CALCIFICATION	R01DE 01662-06	DEN	34,355

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NEW YORK—(CON.)				
MEILMAN, EDWARD	COLLAGEN SYNTHESIS AND DEGRADATION	R01AM 01503-12	BIO	28,440
MEYER, LEO M	VITAMIN B12 COMBINING POWER OF SERUM AND TISSUES	R01CA 08279-05	HEM	22,117
ROGATZ, PETER	GENERAL RESEARCH SUPPORT GRANT	S01FR 05496-06	NSS	52,518
ROSENTHAL, ARTHUR F	SYNTHESIS AND BIOCHEMISTRY OF PHOSPHATIDE ANALOGS	R01AM 07699-05	PC	37,686
ROSNER, STUART W	COMPUTER ANALYSIS OF STRESS ELECTROCARDIOGRAMS	R01HE 11537-01	CVA	30,946
SAMUEL, PAUL	COOPERATIVE STUDY OF DRUGS AND CORONARY HEART DISEASE	R01HE 11663-02	SRC	101,341
INSTITUTION TOTAL	10 384,653			
NEW PALTZ				
NEW YORK STATE UNIVERSITY OF-COL AT NEW PALTZ				
GELLENBECK, S MERCY	SURFACE ANTIGEN OF IN VIVO GROWN STAPHYLOCOCCUS	R01AI 07980-01	BM	23,305
INSTITUTION TOTAL	1 23,305			
NEW YORK				
INDIVIDUAL GRANT				
LUTZKER, EDYTHE	WALDEMAR M HAFFKINE PUBLIC HEALTH PIONEER	R01LM 00489-01	HLS	15,874
INSTITUTION TOTAL	1 15,874			
AMERICAN CANCER SOCIETY				
GRANT, ROALD N	SIXTH NATIONAL CANCER CONFERENCE	R13CA 10024-01S1	NSS	40,000
INSTITUTION TOTAL	1 40,000			
AMERICAN DIABETES ASSOCIATION				
LEVINE, RACHMIEL	SIXTH CONGRESS, INTERNATIONAL DIABETES FEDERATION SUPPOR	R13AM 11385-01	NSS	25,000
INSTITUTION TOTAL	1 25,000			
AMERICAN FOUNDATION FOR TROPICAL MEDICINE				
HSIEH, HSIEN-CHEN	NATURAL HISTORY OF ENDEMIC HOOKWORM IN MAN II	R01AI 05775-04	TMP	35,576
WALTER, HAROLD J	BILHARZIASIS IN LIBERIA PUBLICATION	R01AI 02409-08	TMP	1,000
INSTITUTION TOTAL	2 36,576			
AMERICAN HEART ASSOCIATION				
BRAUNWALD, EUGENE	PUBLICATION OF MYOCARDIUM BY MEERSON	R01LM 00578-01	NSS	10,000
INSTITUTION TOTAL	1 10,000			
AMERICAN MUSEUM OF NATURAL HISTORY				
ARONSON, LESTER R	BEHAVIORAL EFFECTS OF SELECTED DENERVATION	R01HD 00348-07	EP	21,276
TOBACH, ETHEL	CONFERENCE ON THE BIOPSYCHOLOGY OF DEVELOPMENT	R13HD 03674-01	DBR	2,880
INSTITUTION TOTAL	2 24,156			
AMERICAN NEUROLOGICAL ASSOCIATION				
MERRITT, H HOUSTON	9TH INTERNATIONAL CONGRESS OF NEUROLOGY	R13NB 08081-01	NSS	81,741
INSTITUTION TOTAL	1 81,741			
AMERICAN NURSES ASSOCIATION				
GORDON, SHIRLEY J	NURSING RESEARCH CRITIQUE CONFERENCES	R13NU 00275-01	NR	27,625
INSTITUTION TOTAL	1 27,625			
AMERICAN PUBLIC HEALTH ASSOCIATION				
SCHWEITZER, MORTON D	CURRENT BIBLIOGRAPHY OF EPIDEMIOLOGY A PUBLICATION	R01LM 00557-01	BCM	28,475
INSTITUTION TOTAL	1 28,475			
ARTHRITIS FOUNDATION				
REYNOLDS, WILLIAM E	4TH PAN AMERICAN CONGRESS ON RHEUMATIC DISEASES	R13AM 11405-01	NSS	7,000
INSTITUTION TOTAL	1 7,000			
BARNARD COLLEGE				
ABBOTT, JOAN	CELL RECOGNITION AND CHONDROGENESIS	R01GM 15947-01	CBY	15,400
INSTITUTION TOTAL	1 15,400			
BETH ISRAEL MEDICAL CENTER				
ANTOPOL, WILLIAM	GENERAL RESEARCH SUPPORT GRANT	S01FR 05492-06	NSS	27,789
CHRYSSANTHOU, CHRYSANTHOS P	SH EFFECTS ON EXPERIMENTAL HEART AND RENAL LESIONS	R01HE 02670-12	PTHA	43,449
LEVIN, DANIEL H	THE STRUCTURE AND FUNCTION OF ABNORMAL NUCLEIC ACIDS	R01GM 12764-02	PC	23,183
INSTITUTION TOTAL	3 94,421			
BRONX-LEBANON HOSPITAL CENTER				
BLOOM, ALAN A	PROPULSIVE PRESSURE GRADIENTS IN THE HUMAN COLON	R01AM 10364-02	GMA	24,365
COHEN, BURTON D	GUANIDINOSUCCINIC ACIDURIA IN UREMIA	R01AM 10814-02	GMA	18,645
DAVIDSON, MURRAY	EFFECT OF DIETARY PROTEIN ON PREMATURELY BORN INFANTS	R01HD 02032-03	NTN	49,662
FISCHEL, EDWARD E	COMPLEMENT IN INFLAMMATION	R01HE 02144-13	ALY	27,600
FISCHEL, EDWARD E	GENERAL RESEARCH SUPPORT GRANT	S01FR 05597-02	NSS	23,725
REINER, LEOPOLD	VASCULAR BEDS OF VARIOUS ORGANS	R01HE 09543-04	PTHA	24,023
INSTITUTION TOTAL	6 168,020			
BROOKDALE HOSPITAL CENTER				
CARROLL, MARCUS N, JR	CNS-CORONARY FLOW REGULATION AND CARDIAC ARRHYTHMIAS	R01HE 10067-02	CVA	53,591
CRANIN, A NORMAN	EXPERIMENTAL INDUCTION OF OBSTRUCTIVE SIALADENITIS	R01DE 02649-01	DEN	18,941

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INVESTIGATOR	PROJECT TITLE	GRANT NO	IRG	DOLLARS
NEW YORK—(CON.)				
PORUSH, JEROME G	RENAL SODIUM TRANSPORT IN EXPERIMENTAL ALDOSTERONISM	RO1HE 10914-03	GMB	37,046
SPAIN, DAVID M	BRONCHIAL ALTERATIONS IN AN AUTOPSIED POPULATION	RO1HE 10057-03	PTHB	22,678
WAX, SANDOR H	RADIOISOTOPE EVALUATION OF RENAL HYPERTENSION	RO1HE 12379-01	RAD	25,852
INSTITUTION TOTAL 5	158,108			
BROOKLYN-CUMBERLAND MEDICAL CENTER				
KLAVINS, JANIS V	PATHOLOGY OF AMINO ACID EXCESS	RO1AM 10424-03	PTHB	35,230
LEVINE, ROBERT A	EFFECTS OF HYPOGLYCEMIC AGENTS ON LIVER METABOLISM	RO1AM 09747-03	MET	12,540
MUELLER, JOHN F	PHOSPHATIDES OF HUMAN THROMBOCYTES	RO1HE 09345-04	HEM	10,112
INSTITUTION TOTAL 3	57,882			
CITY UNIVERSITY OF NEW YORK				
BATTERSBY, WILLIAM S	RETROCHIASMAL LIMITATIONS OF VISUAL EXCITABILITY	RO1NB 05395-04	EP	33,079
BEILIN, HARRY	LANGUAGE IN THE DEVELOPMENT OF LOGICAL OPERATIONS	RO1HD 00925-07	PCR	39,212
BERGMAN, MOE	HEARING AND AGING DESCRIPTION AND IMPLICATIONS	RO1HD 02558-05	CMS	48,812
BERKOWITZ, WILLIAM F	CYCLOPENTANES BY CYCLOADDITION	RO1AM 11226-02	MCHA	8,009
BLAKE, CLARA O	NIACIN METABOLISM IN THE CORN PLANT	RO1AM 02863-10	PC	5,180
COLWIN, ARTHUR L	FERTILIZATION STUDIES OF SPERM EGG ASSOCIATION	RO1HD 00007-12	CBY	47,203
FOGEL, SEYMOUR	GENE ENZYME RELATIONS AND RECOMBINATION IN YEAST	RO1GM 06979-08	GEN	29,642
FRIEDMAN, MARVIN S	REGULATORY MECHANISMS IN PROTEIN SYNTHESIS	RO1AI 08231-02	MBC	12,392
GILDEN, LLOYD	A STUDY OF EEG CORRELATES OF VOLUNTARY HUMAN BEHAVIOR	RO1NB 06471-02S1	EXP	4,003
GILDEN, LLOYD	A STUDY OF EEG CORRELATES OF VOLUNTARY HUMAN BEHAVIOR	RO1NB 06471-03	EXP	20,015
GRANT, ROBERT J	PHYSICAL ANALYSIS OF G-ADP F-ADP ACTIN EQUILIBRIA	RO1AM 11889-01	BBCB	42,656
GUTTMAN, RITA	CHARACTERISTICS OF THE EXCITATION PROCESS IN NERVE	RO1NB 07259-02	PHY	11,240
HANDLER, EUGENE S	LEUKOCYTE MOBILIZATION IN NORMAL AND LEUKEMIC RATS	RO1CA 07977-04	PTHB	27,352
JACOBSON, HOMER	EFFECTS OF MUTAGENS ON DNA IN VITRO AND VIVO	RO1AI 08038-01	MBC	27,312
KIRMAN, JACOB H	TACTILE COMMUNICATION OF SPEECH TO THE DEAF	RO1NB 06205-03	CMS	14,526
KUPERMAN, ALBERT S	PHARMACOLOGIC STUDIES OF PERIPHERAL NERVE	RO1NB 06416-03	PHRA	25,499
LINDENMAYER, ARISTID	MODELS AND MECHANISMS FOR CELL INTERACTIONS IN GROWTH	RO1GM 12547-03	SSS	24,731
LUKTON, AARON	METABOLISM OF LABELED CARNOSINE AND ANSERINE	RO1AM 06063-07	BIO	9,103
LYSER, KATHERINE M	FACTORS INFLUENCING NEURAL TUBE DIFFERENTIATION	RO1NB 06367-03	CB	8,618
Mawe, Richard C	BIOMEDICAL SCIENCES SUPPORT GRANT	S05FR 07109-01	NSS	43,820
MOLTZ, HOWARD	EXPERIENTIAL AND ENDOCRINE FACTORS IN MATERNAL BEHAVIOR	RO1HD 03651-01	EXP	26,852
PALMER, FRANCIS H	EARLY INTELLECTIVE TRAINING AND SCHOOL PERFORMANCE	RO1HD 02253-02S1	CPR	92,716
PALMER, FRANCIS H	EARLY INTELLECTIVE TRAINING AND SCHOOL PERFORMANCE	RO1HD 02253-03	DBR	112,161
RAPS, SHIRLEY	QUINONES IN PHOTOSYNTHETIC ELECTRON TRANSPORT	RO1AM 09799-03	BIO	12,645
SAGER, RUTH	MECHANISMS OF NON-CHROMOSOMAL HEREDITY	RO1GM 13970-01S3	GEN	10,837
SAGER, RUTH	MECHANISMS OF NON-CHROMOSOMAL HEREDITY	RO1GM 13970-03	GEN	53,118
SCHUSTER, FREDERICK L	ORGANELLE DEVELOPMENT IN PROTISTS	RO1GM 14882-02	CBY	7,530
TOMASZ, MARIA	BASIS OF THE ANTIBIOTIC ACTION OF THE MITOMYCINS	RO1AI 08325-01	MBC	18,665
WASSERMAN, MARVIN	BIOMEDICAL SCIENCES SUPPORT	S05FR 07064-03	NSS	42,225
INSTITUTION TOTAL 29	859,153			
COLLEGE OF PHARMACEUTICAL SCIENCES IN THE CITY OF NEW YORK				
HITE, GILBERT J	ROTATORY DISPERSION STUDIES-A-OXYGENATED KETONES	RO1NB 03593-08	MCHA	39,230
INSTITUTION TOTAL 1	39,230			
COLUMBIA UNIVERSITY				
ALEXANDER, HATTIE E	USE OF ELECTRON MICROSCOPY IN MICROBIAL GENETICS	RO1AI 07132-02	BM	53,553
ALTMANN, FRANZ	PATHOLOGY AND PATHOGENESIS OF LABYRINTHINE DISEASES	RO1NB 03376-07	CMS	43,830
BARKER, HAROLD G	PHYSIOLOGY STUDIES IN SURGICAL PATIENTS	RO1GM 02926-18	SCYA	47,307
BARTELSTONE, HERBERT J	CARDIAC FUNCTION AND PARTITION OF CORONARY FLOW	RO1HE 10282-03	CVB	15,492
BASSETT, C ANDREW	BIOELECTRIC PHENOMENA CONTROLLING BONE GROWTH	RO1AM 07822-05	SCYB	41,417
BEDFORD, J MICHAEL	PHYSIOLOGY AND ULTRASTRUCTURE OF SPERM CAPACITATION	RO1HD 03623-01	REB	25,420
BEISER, SAM M	IMMUNOCHEMICAL STUDIES OF NUCLEIC ACIDS	RO1AI 06860-03	ALY	39,869
BENESCH, REINHOLD	AGING OF HEMOGLOBIN IN THE ERYTHROCYTE	RO1HE 06787-06	HEM	31,776
BENESCH, RUTH E	STRUCTURE AND FUNCTION IN HEMOGLOBINS	RO1HE 05791-08	PC	26,085
BERL, SOLL	BRAIN AMINO ACIDS IN ALTERED STRUCTURE AND FUNCTION	RO1NB 04064-06	NEUB	25,551
BERSOHN, RICHARD	BIFUNCTIONAL STUDIES OF PROTEINS	RO1CA 07712-05	BBCA	52,155
BEYCHOK, SHERMAN	INDUCED CONFORMATIONAL CHANGES IN MACROMOLECULES	RO1GM 10576-06	BBC	42,307
BITO, LASZLO Z	OCULAR FLUID COMPOSITION AND CELL DIVISION IN THE LENS	RO1NB 06766-02	VIS	13,560
BITO, LASZLO Z	ANTI-CHE TREATMENT ON CHOLINERGIC TRANSMISSION	RO1NB 07830-01	VIS	16,310
BLANC, WILLIAM A	IMMUNOCYTOLOGY OF CYSTIC FIBROSIS OF THE PANCREAS	RO1AM 09067-03S1	IMB	7,616
BLANK, MARTIN	MEMBRANE PROCESSES	RO1GM 10101-06	BBCB	16,166
BLUMENTHAL, SIDNEY	NATURAL HISTORY CONGENITAL HEART DEFECTS-JOINT STUDY	RO1HE 09479-03	SRC	6,631
BOCK, WALTER J	MECHANICAL PROPERTIES OF AVIAN FAST AND SLOW MUSCLES	RO1AM 10856-02	PHY	12,049
BOREK, ERNEST	ALTERATIONS OF NUCLEIC ACIDS	RO1CA 10099-02	BIO	37,687
BOREK, ERNEST	STUDIES OF NUCLEIC ACID METHYLATING ENZYMES	RO1GM 12836-04	BIO	42,021
BRADLEY, STANLEY E	PHYSIOPATHOLOGY OF HEART AND REGIONAL CIRCULATION	RO1HE 05741-08	HEPA	538,187
BRADLEY, STANLEY E	ENDOCRINOLOGY AND METABOLIC DISEASES - METABOLIC UNIT	PO2AM 09790-05	AMP	81,249
BRANDT, PHILIP W	CELL PHYSIOLOGY CORRELATED WITH ULTRASTRUCTURE	RO1NB 05910-03	NEUB	25,830
BRESLOW, RONALD C	BIOCHEMICAL MODEL REACTIONS	RO1AM 05679-07	BIO	50,643
BRESLOW, RONALD C	AROMATIC, PSEUDOAROMATIC AND ANTIAROMATIC SYSTEMS	RO1GM 13651-03	MCHB	53,960
BUNGE, RICHARD P	GLIAL DIFFERENTIATION AND REACTIVITY IN TISSUE CULTURE	RO1NB 04235-06	CB	34,190

TABLE 2—RESEARCH GRANTS, BY AREA, INSTITUTION, AND PRINCIPAL INVESTIGATOR

INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRG	DOLLARS
NEW YORK—(CON.)				
BURKHOLDER, PAUL R	NEW DRUGS FROM THE SEA, ESPECIALLY ANTIBIOTICS	RO1GM 11735-05	SSS	68,726
BUTLER, VINCENT P, JR	DIGOXIN-SPECIFIC ANTIBODIES	RO1HE 10608-02	ALY	28,246
CANFIELD, ROBERT E	LOCALIZATION OF THE SITE OF ACTION OF PROTEIN HORMONES	RO1AM 09579-03	END	29,974
CANFIELD, ROBERT E	THE CHEMISTRY AND BIOLOGY OF LYSOZYMES	RO1GM 11246-04S1	MBC	614
CANFIELD, ROBERT E	THE CHEMISTRY AND BIOLOGY OF LYSOZYMES	RO1GM 11246-06	MBC	34,130
CANNON, PAUL J	CIRCULATORY FUNCTION AND ELECTROLYTE METABOLISM	RO1HE 10182-03	CVB	11,588
CANTOR, CHARLES R	CONFORMATION OF TRNA AND MODEL OLIGONUCLEOTIDES	RO1GM 14825-02	BBCA	29,381
CARPENTER, MALCOLM B	VESTIBULAR SYSTEM	RO1NB 01538-10	NEUA	8,738
CARPENTER, MALCOLM B	ANATOMY OF BASAL GANGLIA AND RELATED NUCLEI	RO1NB 04082-06	NEUA	16,318
CHANG, CHU HUAI	EFFECT OF OXYGEN AND IRRADIATION ON BRAIN TUMORS	RO1CA 07962-03S1	RAD	5,594
CHARGAFF, ERWIN	CELLULAR CONTROL MECHANISMS	RO1GM 07191-08	PC	129,094
CHIEN, SHU	COMPENSATORY MECHANISMS AFTER HEMORRHAGE	RO1HE 06139-08	PHY	22,668
CHRISTIAN, CHARLES L	IMMUNOCHEMICAL STUDY OF RHEUMATIC DISEASE SERA	RO1AM 04866-08	ALY	42,833
CHRISTIAN, CHARLES L	MICROBIOLOGICAL STUDIES OF CHRONIC ARTHRITIS	RO1AM 11775-01	ALY	51,912
CLARK, IRWIN	METABOLIC STUDIES ON BONE DEMINERALIZATION IN VIVO	RO1AM 04071-09	MET	19,295
COHEN, GERALD	HYDROGEN PEROXIDE AND CATECHOLAMINES IN STRESS	RO1HE 01045-17	PHRA	44,443
COLEMAN, D JACKSON	ULTRASONIC MEASUREMENT OF OPTICAL DIMENSIONS	RO1NB 05181-03	SSS	110,385
CORRELL, JAMES W	JOINT STUDY ON EXTRACRANIAL ARTERIAL OCCLUSION	RO1HE 07609-04S2	SRC	1,082
CORRELL, JAMES W	EXTRACRANIAL ARTERIAL OCCLUSION - JOINT STUDY	RO1HE 07609-05A1	SRC	16,797
CORRELL, JAMES W	INFLUENCE OF NERVOUS SYSTEM ON LIPID METABOLISM	RO1NB 03581-06	NEUB	27,100
COSTANTIN, LE ROY L	THE ACTIVATION MECHANISM OF SKELETAL MUSCLE	RO1AM 12071-01	PHY	17,243
DAWSON, CHARLES R	CHEMISTRY OF THE COPPER OXIDASES	RO1AM 03200-10	BIO	29,182
DE VOE, ARTHUR G	A CORNEAL CENTER	PO1NB 04968-05	NBP	219,854
DEMPSEY, EDWARD W	ELECTRON MICROSCOPY OF CELLS HAVING CYCLES	RO1GM 15289-01	CBY	56,950
DEMPSEY, EDWARD W	ELECTRON MICROSCOPY OF THE NERVOUS SYSTEM	RO1NB 07385-02	NEUA	47,215
DISCHE, ZACHARIAS	STUDY OF CYSTIC FIBROSIS OF THE PANCREAS	RO1AM 02856-10	GM	33,569
DISCHE, ZACHARIAS	POLYSACCHARIDES IN NEOPLASTIC DISEASE	RO1CA 02075-15	PC	26,902
DISCHE, ZACHARIAS	CELL SURFACE MEMBRANES AND LENS CAPSULE	RO1NB 07033-02	VIS	25,620
DONN, ANTHONY	PHYSIOLOGIC STUDIES OF THE LIVING CORNEA IN VITRO	RO1NB 02343-09	VIS	28,899
DOFFY, PHILIP E	ULTRA STRUCTURE OF THE MEDIAN EMINENCE	RO1HD 00964-04	NEUA	13,043
EAKINS, KENNETH E	NEUROMUSCULAR EFFECTS OF ANESTHETIC AGENTS	RO1NB 07079-02	VIS	18,465
EHRLICH, GABRIELE F	EFFECTS OF ANTI-OCULAR ANTIBODIES ON OCULAR TISSUES	RO1NB 01646-10	IMB	30,856
EISENBERG, MAX A	MECHANISM OF BIOTIN BIOSYNTHESIS	RO1AM 04056-08	PC	15,291
ELY, CHARLES A	STUDY OF GROWTH AND DIFFERENTIATION OF OVARIAN TUMORS	RO1CA 10012-02	REB	11,000
EMMERS, RAIMOND	NEUROPHYSIOLOGICAL MECHANISMS OF TASTE	RO1NB 03266-08	PHY	19,050
ERLANGER, BERNARD F	THE CATALYTIC MECHANISM OF PEP SIN	RO1GM 11805-10	BIO	23,490
FEIGELSON, MURIEL H	MECHANISMS OF POSTNATAL ENZYME DEVELOPMENT	RO1HD 01951-03	MET	28,999
FERTIG, JOHN W	STATISTICAL METHODS IN DENTAL RESEARCH	RO1DE 00793-09	SSS	17,719
FOX, CHARLES L, JR	TOXIC THROMBOPLASTIC EXTRACTS OF NORMAL & BURNED SKIN	RO1GM 08582-05S1	SGYA	3,358
FOX, CHARLES L, JR	TOXIC THROMBOPLASTIC EXTRACTS OF NORMAL & BURNED SKIN	RO1GM 08582-06	SGYA	48,789
FRAENKEL, GEORGE K	BIOMEDICAL SCIENCES SUPPORT	SO5FR 07060-03	NSS	90,830
FRANTZ, ANDREW G	STUDIES ON GROWTH HORMONE	RO1AM 11294-03	END	26,897
FREDA, VINCENT J	A NEW EXPERIMENTAL RH ANTIBODY PREPARATION	RO1HD 00721-04	IMB	23,684
FRITTS, HARRY W, JR	CARDIOPULMONARY PHYSIOLOGY	RO1HE 02001-14	CVA	112,329
FURTH, JACOB	PITUITARY HORMONE, COMPONENTS OF CARCINOGENESIS	RO1CA 06215-08	PTHB	83,354
GEIGER, ARNOLD M	RELATIONSHIPS OF OCCLUSION TO PERIODONTAL DISEASE	RO1DE 02059-03S1	DEN	31,300
GELLHORN, ALFRED	CLINICAL AND LABORATORY CANCER CHEMOTHERAPY	RO1CA 02332-14	PHRB	680,003
GERST, PAUL H	AUTOGENOUS VENTILATION AND HYPOTHERMIA	RO1HE 07039-07	CVA	20,430
GOCKE, DAVID J	MECHANISMS OF CELL DAMAGE BY IMMUNE REACTIONS IN VITRO	RO1AI 01622-06	IMB	17,417
GODMAN, GABRIEL C	PATHOLOGY OF VIRAL INFECTION IN CELL CULTURE	RO1AI 05708-05	VR	41,424
GODMAN, GABRIEL C	EFFECTS OF ACTINOMYCINS ON CYTOPLASMIC CELL GROWTH	RO1GM 14864-02	MBY	35,156
GOLD, ALLEN M	STUDIES ON THE MECHANISM OF ACTION OF ENZYMES	RO1GM 10513-06	BIO	32,143
GOODMAN, DE WITT S	STUDIES IN LIPID METABOLISM	RO1AM 05968-08	NTN	50,200
GORMAN, JOHN G	PREVENTION OF HEMOLYTIC DISEASE OF THE NEWBORN	RO1HD 01955-03	HEM	13,803
GRAFF, SAMUEL	PROGRAM IN CELL BIOLOGY	PO1GM 12883-04	GMP	79,278
GRAHAM, CLARENCE H	SELECTED RESEARCH IN VISION AND VISUAL PERCEPTION	RO1NB 07698-01	EXP	39,547
GRAYZEL, JOSEPH	CARDIAC EXCITATION IN MAN A DIGITAL COMPUTER MODEL	RO1HE 09388-02S1	CVA	8,942
GREENBAUM, LOWELL M	STUDIES ON THE TOXICOLOGY OF SODIUM BISULFITE	RO1HE 10650-02	TOX	18,730
GREGOR, HARRY P	MULTILAYER MEMBRANE ELECTRODES	RO1GM 15906-01	BBCB	21,713
GREGOR, HARRY P	NON-AQUEOUS ION-EXCHANGE RESIN IN CHROMATOGRAPHY	RO1GM 15914-01	BBCA	22,772
GRUNDFEST, HARRY	COMPARATIVE STUDIES ON NEUROMUSCULAR SYSTEMS	RO1NB 03270-07	PHY	23,022
GRUNDFEST, HARRY	GENERATION AND TRANSMISSION OF BIOELECTRIC ACTIVITY	RO1NB 03728-07	NEUB	95,111
HARTER, DONALD H	CELLULAR EFFECTS OF NEUROTROPIC VIRUSES	RO1NB 06989-02	VR	38,240
HERTER, FREDERIC P	PREDICTION OF TUMOR RESPONSE TO NON-SURGICAL TREATMENT	RO1CA 10162-02	PHRB	28,464
HIATT, ROBERT B	THE ROLE OF POSTERIOR PITUITARY IN INTESTINAL MOTILITY	RO1AM 11421-02	SGYB	33,550
HILAL, SADEK K	OPTICAL SPATIAL FILTERING OF RADIOGRAPHS	RO1GM 14391-02	RAD	14,568
HILAL, SADEK K	HEMODYNAMICS STUDY BY A RADIOGRAPHIC TECHNIQUE	RO1HE 08785-05A2	NEUA	24,150
HILAL, SADEK K	POD RESEARCH-SECTION ON CEREBROVASCULAR DISEASE	RO1HE 12160-01	SRC	23,060
HOFFMAN, BRIAN F	CARDIAC CONDUCTIVITY AND AUTOMATICITY	RO1HE 08508-05	CVB	50,048
HOFMANN, FREDERICK G	STUDIES ON IN VITRO ADRENAL STEROID SYNTHESIS	RO1CA 02121-14S1	END	6,689
HOSKIN, FRANCIS C	METABOLISM AND FUNCTION IN NERVE TISSUE	RO1NB 04367-06	NEUB	19,355
HOSKIN, FRANCIS C	NEW BIOCHEMICAL APPROACH TO PESTICIDE CONTROL	RO1NB 07055-02	TOX	14,980
HOWE, CALDERON	IMMUNOCHEMISTRY OF VIRUS RECEPTORS AND INFECTED CELLS	RO1AI 03168-09	VR	29,984

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INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRG	DOLLARS
NEW YORK—(CON.)				
HSU, KONRAD C	IMMUNOLOGICAL STUDY OF FERRITIN-CONJUGATED ANTIBODY	RO1AI 05474-05S1	ALY	5,406
HSU, KONRAD C	PATHOGENESIS OF SOME SEQUELAE OF STREPTOCOCCAL DISEASE	RO1HE 03929-10	ALY	52,544
IOACHIM, HARRY L	STUDIES ON GROSS LEUKEMIA VIRUS IN TISSUE CULTURES	RO1CA 10273-01	VR	33,237
JAMPPEL, ROBERT S	EYE MOVEMENTS FROM BRAIN STIMULATION	RO1NB 04547-06	VIS	16,212
KAGEN, LAWRENCE J	IMMUNOLOGICAL STUDIES OF MYOGLOBIN	RO1AM 11659-01	ALY	14,135
KARLIN, ARTHUR	REACTIONS WITH THE ACH-ACTIVATED PERMEABILITY SYSTEM	RO1NB 07065-02	NEUB	15,650
KAYE, GORDON I	EM STUDIES - TRANSPORT SECRETION AND ABSORPTION SITES	RO1AM 12396-05	CBY	26,684
KENDALL, FORREST E	RELATION OF LIPID METABOLISM TO ATHEROSCLEROSIS	RO1HE 00052-21	NTN	103,324
KESSLER, HARRY S	IMMUNOCHEMICAL STUDIES OF SJOGRENS SYNDROME	RO1AM 08803-03S1	IMB	11,298
KETLER, ALBERT	STUDIES OF VIRAL LATENCY IN HERPES SIMPLEX KERATITIS	RO1AI 08021-01	VR	25,605
KIMBERG, DANIEL V	EFFECTS OF STEROID HORMONES ON CALCIUM ABSORPTION	RO1AM 07625-06	END	17,782
KING, DONALD W	CELL PATHOLOGY	RO1CA 11084-01	PTHB	78,234
KINNEY, JOHN M	INFLUENCE OF ACUTE ILLNESS AND INJURY ON ENERGY EXCHANGE	PO1GM 14546-02	GMP	207,435
KREZMNER, LEON T	METABOLISM OF POLYAMINES IN THE NERVOUS SYSTEM	RO1NB 07802-01	NEUB	28,029
LARAGH, JOHN H	ELECTROLYTES & HORMONES IN EDEMA & HYPERTENSION	RO1NE 01275-16	CVA	98,940
LARAGH, JOHN H	ELECTROLYTES AND HORMONES IN EDEMA AND HYPERTENSION	RO1HE 01275-16S1	CVA	14,743
LEE, ARNOLD S	APPLICATION OF ENGINEERING TO PROBLEMS IN MEDICINE	PO1GM 13912-03	GMP	113,719
LEONARD, EDWARD F	TRANSPORT AND FLUID MECHANICS IN ARTIFICIAL ORGANS	RO1HE 06831-06	CVA	32,449
LEVINTHAL, CYRUS	COMPUTER CONSTRUCTION AND DISPLAY OF MACROMOLECULES	RO1GM 16497-01	COM	39,968
LIEBERMAN, SEYMOUR	CHEMICAL METHODS IN STEROID METABOLISM	RO1AM 00110-17	END	168,595
LINDENBAUM, JOHN	ENVIRONMENTAL CHANGE AND THE CHOLERA MUCOSAL LESION	R22AI 07779-02	SSS	23,269
LLOYD, KENNETH O	IMMUNOCHEMICAL STUDIES ON FUNGAL POLYSACCHARIDES	RO1AI 08478-01	ALY	30,980
LOEB, JOHN N	EFFECTS OF HORMONES ON MAMMALIAN RIBOSOMES	RO1GM 15022-02	MBY	16,486
LOEWENFELD, IRENE E	PUPILLOGRAPHY PHYSIOLOGICAL AND CLINICAL RESEARCH	RO1NB 00253-14S1	VIS	250
LOEWENFELD, IRENE E	PUPILLOGRAPHY, PHYSIOLOGICAL AND CLINICAL RESEARCH	RO1NB 00253-16	VIS	21,665
LOEWENSTEIN, WERNER R	STUDY OF CELL MEMBRANES	RO1GM 12771-04	PHY	38,924
LOEWENSTEIN, WERNER R	RECEPTOR PROCESSES	RO1NB 01466-11	PHY	28,723
LOW, BARBARA W	X-RAY CRYSTAL STUDIES OF INSULIN AND OXYTOCIN	RO1AM 01320-12	BBCA	76,063
LOW, BARBARA W	CRYSTAL STRUCTURE OF ACETYLCHOLINESTERASE	RO1NB 07747-01	BBCA	23,337
LUSE, SARAH A	ULTRASTRUCTURE OF NORMAL AND NEOPLASTIC CELLS	RO1CA 10749-01	PTHA	37,461
LUSE, SARAH A	MECHANISMS OF FORMATION AND DESTRUCTION OF MYELIN	RO1NB 07887-01	PTHA	43,733
MALM, JAMES R	BODY SUBSTRATE UTILIZATION AND CARDIAC BYPASS	RO1GM 14407-02	SGYA	35,985
MANDEL, IRWIN D	DENTAL CALCULUS - COMPOSITION AND FORMATION	RO1DE 01554-07	DEN	38,648
MANDL, INES	MODE OF ACTION OF CLOSTRIDIUM HISTOLYTICUM COLLAGENASE	RO1AM 00779-13S1	PC	11,860
MANDL, INES	THE NATURE AND MODE OF ACTION OF MALUCIDIN	RO1HD 03256-01	HED	15,416
MANSKI, WLADYSLAW	IMMUNOLOGICAL OBSERVATIONS ON OCULAR LENS IN CATARACT	RO1NB 01010-13	VIS	71,581
MARKS, PAUL A	NORMAL/ABNORMAL CELL GROWTH MULTIDISCIPLINARY STUDY	PO1GM 14552-02	GMP	114,166
MATIN, LEONARD	EYE MOVEMENTS AND VISUAL DIRECTION	RO1NB 07547-01	VIS	58,690
MERRITT, H HOUSTON	NEUROLOGICAL CLINICAL RESEARCH CENTER	PO1NB 03359-07	NBPA	182,751
MERRITT, H HOUSTON	CLINICAL CTR FOR RES ON PARKINSONS AND ALLIED DISEASES	PO1NB 05184-05	NBP	514,328
MERRITT, H HOUSTON	GENERAL RESEARCH SUPPORT GRANT	SO1FR 05395-07	NSS	478,705
METTLER, FRED A	PRODUCTION OF ABNORMAL MOVEMENTS OF NEUROLOGIC ORIGIN	RO1NB 06282-03	NEUB	21,119
MILLER, ORLANDO JACK	GENETIC FACTORS IN HUMAN SEX DEVELOPMENT	RO1HD 00516-08	GEN	70,702
MOORE, J GEORGE	FIBRINOLYSIS IN OBSTETRICAL PROBLEMS	RO1HE 01512-14S1	HEM	2,210
MORGAN, COUNCILMAN	ELECTRON MICROSCOPY OF VIRAL STRUCTURE AND DEVELOPMENT	RO1AI 06814-03	VR	36,575
MORISUE, TEIICHI	STUDIES ON THE PHYSIOLOGY OF THE CORNEA AND TEARS	RO1NB 06309-03	VIS	26,443
MORRIS, MELVIN L	THE INDUCTIVE PROPERTIES OF DENTIN	RO1DE 02134-03	DEN	13,324
MOSS, MELVIN L	CALCIFICATION OF PHOSPHATE ACCUMULATING INVERTEBRATES	RO1DE 01715-06	DEN	12,798
MOSS, MELVIN L	FUNCTIONAL ANALYSIS OF THE HUMAN SKULL	RO1NB 00965-13	GMB	8,749
MURRAY, MARGARET R	FACTORS GOVERNING HEALTH OF THE NEURON	RO1NB 00858-13	NEUB	46,826
MURRAY, MARGARET R	M LEPRAE BEHAVIOR IN ORGANIZED NERVE-TISSUE CULTURES	R22AI 08521-01	SSS	28,200
NACHMANSOHN, DAVID	METABOLISM AND FUNCTION OF THE NERVE CELL	RO1NB 03304-07	PC	153,381
NACHMANSOHN, DAVID	PROPERTIES AND STRUCTURE OF ACETYLCHOLINESTERASE	RO1NB 07743-01	BBCA	119,800
NASTUK, WILLIAM L	SELECTED PROBLEMS IN NEUROMUSCULAR PHYSIOLOGY	RO1NB 04988-05	NEUB	23,204
NEU, HAROLD C	ROLE OF SURFACE ENZYMES IN BACTERIAL LIFE	RO1AI 06840-03	MBC	14,437
NICHOLSON, JOHN F	AMMONIA AND AMINO-NITROGEN METABOLISM	RO1AM 09346-04	MET	17,894
NOBACK, CHARLES R	PHYLOGENY AND ONTOGENY OF THE CEREBRAL CORTEX	RO1NB 03473-07	NEUA	18,808
NOSSSEL, HYMIE L	CONTACT PHASE OF BLOOD COAGULATION	RO1HE 10999-03	HEM	36,834
PAPPER, EMANUEL M	RESEARCH IN ANESTHESIOLOGY	PO1GM 09069-06	GMP	735,292
POTTER, GUY D	MORPHOLOGIC AND RADIOLOGIC NORMS OF THE HEAD	RO1GM 14315-02	RAD	19,089
PRICE, JOHN B	HEPATIC-SPLANCHNIC INTERRELATIONSHIPS	RO1AM 07646-05	SGYB	39,488
RAGAN, CHARLES	RHEUMATOID ARTHRITIS NUTRITION - ARTIFICIAL ANTIGENS	PO2AM 07183-05	AMP	336,291
RAGAN, CHARLES	THE STUDY OF RHEUMATOID ARTHRITIS	RO1AM 01191-12	GM	11,774
RICHART, RALPH M	THE BIOLOGY OF CERVICAL NEOPLASIA	RO1CA 07060-06	PTHB	28,894
RITTENBERG, DAVID	STUDIES WITH O18 LABELED GLUCOSE IN MICROORGANISMS	RO1AM 08625-04	PC	23,006
ROELS, OSWALD A	VITAMIN A AND PROTEIN METABOLISM	RO1AM 04464-08	NTN	38,590
ROELS, OSWALD A	EFFECT OF LIPIDS ON STABILITY OF BIOLOGICAL MEMBRANES	RO1GM 13660-02	MBY	16,752
ROSENBERG, ABRAHAM	THE POLYMERIC MUCOLIPIDS OF MAMMALIAN TISSUES	RO1GM 09041-07	PC	38,971
ROSENKRANZ, HERBERT S	NUCLEIC ACIDS OF LEUKEMIC AND OTHER NEOPLASTIC CELLS	RO1CA 08374-03	VR	36,145
RUDMAN, DANIEL	ADIPONIKETIC SUBSTANCES OF THE PITUITARY GLAND	RO1AM 06056-07	END	18,687
RUDMAN, DANIEL	METABOLIC CONSEQUENCES OF FATTY ACID MOBILIZATION	RO1AM 10715-02	MET	24,885
SAWYER, WILBUR H	NEUROHYPOPHYSIAL REGULATION OF WATER EXCRETION	RO1AM 01940-10	PHY	22,906
SCHACHTER, DAVID	THE TRANSPORT OF CALCIUM	RO1AM 01483-12	MET	42,560

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NEW YORK—(CON.)				
SCHACHTER, DAVID	REGULATION OF FERRITIN SYNTHESIS	RO1AM 04407-08A1	PC	26,151
SCHACHTER, JOSEPH	MULTIVARIATE ANALYSIS OF HUMAN NEONATAL REACTIVITY	RO1HD 02108-02	DBR	39,392
SCHWARTZ, DAVID T	THE EFFECT OF PORTACAVAL TRANSPOSITION/HYPERTENSION	RO1HE 10011-02	SGYA	27,960
SEBRELL, WILLIAM H	NUTRITION RESEARCH PROGRAM IN THE MIDDLE EAST	PO1AM 05285-08	AMP	162,962
SHEPS, MINDEL C	HUMAN REPRODUCTION STUDIED AS A STOCHASTIC PROCESS	RO1HD 02292-04	SSS	25,964
SILVERMAN, WILLIAM A	ACID BASE DISTURBANCES IN INFANTS AND CHILDREN	RO1HD 00117-05	CVA	90,656
SILVERMAN, WILLIAM A	THERMOREGULATION IN THE NEWBORN	RO1HD 00540-08	HED	23,354
SIMMONS, RICHARD L	IMMUNOLOGICAL REACTIVITY IN SPECIAL CIRCUMSTANCES	RO1CA 07466-05	IMB	22,341
SLOTNICK, BURTON M	NEURAL CONTROL OF MATERNAL BEHAVIOR IN RODENTS	RO1HD 03131-01	NP	25,677
SMELSER, GEORGE K	BASIC OPHTHALMIC RESEARCH PROGRAM	PO1NB 07732-01	NBPB	94,179
SMELSER, GEORGE K	FUNCTIONAL DEVELOPMENT OF THE EYE	RO1NB 06492-15	VIS	36,108
SMELSER, GEORGE K	ELECTRON MICROSCOPY OF THE EYE	RO1NB 01202-12	VIS	30,122
SMITH, GILBERT P	GENERAL RESEARCH SUPPORT GRANT	SO1FR 05331-07	NSS	59,498
SPECTOR, ABRAHAM	METABOLIC STUDIES OF THE OCULAR LENS	RO1NB 06497-03	VIS	15,244
SPECTOR, ABRAHAM	LENS PROTEINS AND GLUTATHIONE	RO1NB 06515-04	PC	28,895
SPIRO, DAVID	DISEASE AT THE CELLULAR LEVEL	RO1HE 05906-08	PTHA	68,525
SPRINSON, DAVID	PORPHYRINS ENZYME SYNTHESIS & CONTROL MECHANISMS	RO1AM 01101-20	PC	47,442
SPRINSON, DAVID B	SUGARS AND SYNTHESIS OF AMINO ACIDS	RO1AM 00546-16S1	BIO	4,334
SPRINSON, DAVID B	SUGARS AND SYNTHESIS OF AMINO ACIDS	RO1AM 00546-17	BIO	31,200
SRINIVASAN, P R	BIOSYNTHESIS OF NATURAL PRODUCTS OF BIOLOGICAL INTEREST	RO1GM 10384-06	BIO	30,302
STERLING, KENNETH	THYROXINE BINDING PROTEIN AND HORMONE UTILIZATION	RO1AM 10739-03	END	59,425
STOERK, HERBERT C	PARATHYROID ACTIVITY IN STEROID OSTEOPOROSIS	RO1AM 07795-05	END	31,107
STORK, GILBERT	SYNTHESIS OF NATURAL PRODUCTS	RO1GM 05147-11	MCHA	54,097
SULLIVAN, STUART F	O2 COST OF BREATHING IN THE POST-CARDIOTOMY PATIENT	RO1GM 14419-02	SGYA	26,680
TANENBAUM, STUART W	BIOSYNTHESIS OF ACETATE-DERIVED MOLD METABOLITES	RO1AI 06801-03	BIO	26,907
TAPLEY, DONALD F	THE EFFECT OF THYROXINE ON MITOCHONDRIA	RO1AM 01506-11	PC	26,351
TERRACE, HERBERT S	ACQUISITION OF STIMULUS CONTROL	RO1HD 00930-07	EXP	21,001
THURSH, DONALD R	STUDIES ON SOME BASIC PROBLEMS IN IMMUNOPATHOLOGY	RO1AI 07400-02	ALY	22,962
TONNDORF, JUERGEN	COCHLEAR ANALYSIS NEW MODIFIED PLACE THEORY	RO1NB 03654-07	CMS	48,144
TROTTER, NANCY L	ELECTRON MICROSCOPIC OBSERVATIONS OF LIPID IN LIVER	RO1AM 06558-06	CBY	12,558
TRUSSELL, RAY E	GENERAL RESEARCH SUPPORT GRANT	SO1FR 05449-07	NSS	146,627
YAN DYKE, HARRY B	PHYSIOLOGY OF THE NEUROHYPOPHYSIAL HORMONES	RO1HE 01788-13	END	3,086
VANDE WIELE, RAYMOND L	REGULATION OF THE HUMAN MENSTRUAL CYCLE	RO1HD 02996-02	REB	76,579
VON MICKSY, LAJOS I	ULTRASONIC HYSTEROGRAPHY AND PELVIC TOMOGRAPHY	RO1CA 08075-04	SSS	30,902
WAGNER, BERNARD M	PATHOGENESIS OF RHEUMATIC HEART DISEASE	RO1HE 12140-01	PTHA	42,382
WANG, SHIH C	PHYSIOLOGY AND PHARMACOLOGY OF BRAIN STEM	RO1NB 00031-19	PHY	58,521
WEINER, DORA B	A SOCIAL HISTORY OF FRENCH MEDICINE, 1789-1815	RO1LM 00016-03	HLS	15,614
WEITZMAN, IRENE	GENETICS OF VARIATION IN PATHOGENIC FUNGI	RO1AI 00299-16	ABC	26,400
WERNER, SIDNEY C	NORMAL AND DISORDERED THYROID STATES IN MAN	RO1AM 00008-20	END	83,538
WHEELER, HENRY O	STUDIES OF BILE PRODUCTION	RO1AM 04011-08S1	GM	1,285
WHITEMAN, MARTIN	DEVELOPMENT OF CONCEPTIONS OF PSYCHOLOGICAL CAUSALITY	RO1HD 02574-03	DBR	12,393
WINTERS, ROBERT W	ACID BALANCE IN INFANTS	RO1HD 03313-01	CVA	31,880
WINTERS, ROBERT W	INTRACELLULAR PH AND BUFFER CAPACITY	RO1HE 10257-03	CVA	49,658
WIROSTKO, EMIL	AUTOIMMUNITY IN EXPERIMENTAL AND HUMAN UVEITIS	RO1NB 04140-06	VIS	44,806
WITKOVSKY, PAUL	FACTORS AFFECTING THE EXCITABILITY OF RETINAL NEURONS	RO1NB 05404-04	VIS	26,355
WOLFF, JAMES A	CHILDRENS CANCER STUDY GROUP A	RO1CA 03526-11	SRC	29,989
WOOD, ERNEST H	THERMOGRAPHIC DIAGNOSIS OF CEREBROVASCULAR DISEASE	RO1NB 06513-03	NEUA	29,541
WOTMAN, STEPHEN	SALIVARY NEUROHUMORAL RELATIONSHIPS	RO1DE 02685-01	DEN	39,686
YAHR, MELVIN D	STUDY OF ANEURYSMS & ACUTE SUBARACHNOID HEMORRHAGE	RO1NB 02374-10S1	SSS	3,355
YAHR, MELVIN D	STUDY OF ANEURYSMS & ACUTE SUBARACHNOID HEMORRHAGE	RO1NB 02374-11	SSS	25,213
ZIPSER, DAVID	ISOLATION OF PEPTIDE FRAGMENTS FROM POLAR MUTANTS	RO1GM 14676-02	GEN	18,454
ZUBAY, GEOFFREY L	NUCLEIC ACID STRUCTURES INVOLVED IN PROTEIN SYNTHESIS	RO1GM 12768-03S1	BIO	1,404
INSTITUTION TOTAL	224	11,715,296		
COMMITTEE FOR THE PROMOTION OF MEDICAL RESEARCH				
GOULD, LAWRENCE A	COOPERATIVE STUDY OF DRUGS AND CORONARY HEART DISEASE	RO1HE 10699-03	SRC	32,610
INSTITUTION TOTAL	1	32,610		
COMMUNITY BLOOD COUNCIL OF GREATER NEW YORK -NEW YORK BLOOD CENTER				
ALEXANDER, BENJAMIN	COAGULATION, HEMORRHAGE, AND THROMBOSIS	RO1HE 11447-01S1	HEM	25,826
ALEXANDER, BENJAMIN	COAGULATION, HEMORRHAGE, AND THROMBOSIS	RO1HE 11447-02	HEM	104,180
ALLEN, FRED H, JR	STUDY OF BLOOD-GROUP ANTIBODY-ANTIGEN REACTIONS	RO1HE 08630-04	HEM	53,887
HIRSCH, ROBERT L	MOBILIZATION OF LIPIDS IN LIVING ANIMALS	RO1AM 10029-04	MET	23,326
KELLNER, AARON	A RESEARCH AND RESOURCE PROGRAM IN BLOOD	PO1HE 09011-05	HEP	1,497,152
INSTITUTION TOTAL	5	1,704,371		
CORNELL UNIVERSITY				
ASKARI, AMIR	CARDIAC GLYCOSIDES	RO1HE 10884-02	BIO	27,690
AULD, PETER A	FUNCTIONAL ASPECTS OF PULMONARY IMMATUREITY	RO1HD 02644-02	HED	25,932
AULD, PETER A M	EXTRACARDIAC FACTORS IN CONGENITAL HEART DISEASE	RO1HE 09410-03	CVB	25,682
BALAGURA, SULAMITA	UPTAKE & UTILIZATION OF ALPHA-KETOGLUTARATE BY KIDNEY	RO1AM 10101-03	PHY	11,150
BEARN, ALEXANDER G	BIOCHEMICAL AND GENETICAL STUDIES ON SERUM PROTEINS	RO1AM 11796-01	GEN	106,336
BEARN, ALEXANDER G	TO INVESTIGATE PRIMATE IMMUNE SERA IN HUMAN GENETICS	RO1GM 15257-02	GEN	11,855
BECKER, E LOVELL	THE NEPHROTIC SYNDROME IN ADULTS	RO1AM 05009-07	CVA	28,096

TABLE 2—RESEARCH GRANTS, BY AREA, INSTITUTION, AND PRINCIPAL INVESTIGATOR

INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRG	DOLLARS
NEW YORK—(CON.)				
BENNETT, DOROTHEA	GENETICS AND DEVELOPMENT OF T-LOCUS IN THE MOUSE	RO1GM 09912-07	GEN	22,854
BRACHFELD, NORMAN	MYOCARDIAL LIPID PROTEIN & ENZYME DEFECTS OF ISCHEMIA	RO1HE 06216-07	MET	27,805
BRESLOW, ESTHER M	INTERACTION OF PROTEINS WITH METAL AND HYDROGEN IONS	RO1HE 02739-12	BBCB	37,444
BROOKS, DANA C	ELECTRICAL ACTIVITY OF THE BRAIN STEM	RO1NB 02091-08	PHY	12,460
CASH, WILLIAM D	EFFECTS OF POLYPEPTIDES AND PROTEINS UPON METABOLISM	RO1AM 09844-03	END	12,025
CHAN, W Y	RENAL AND CARDIOVASCULAR EFFECTS OF POLYPEPTIDES	RO1HE 09795-03	PHRA	24,632
CONWAY, HERBERT	STUDIES ON THE HOMOTRANSPLANTATION OF TISSUES	RO1GM 04554-12	SGYB	35,014
DANIELS, FARRINGTON, JR	EFFECTS OF ULTRAVIOLET LIGHT ON HUMAN SKIN	RO1CA 07071-05S3	PHRB	15,100
DETRICK, JOHN E	GENERAL CLINICAL RESEARCH CENTER	MO1FR 00047-08	CLR	769,472
DETRICK, JOHN E	GENERAL RESEARCH SUPPORT GRANT	SO1FR 05396-07	NSS	478,705
DICKERMAN, ROBERT W	NORTH AMERICAN ENCEPHALITIS ARBOVIRUSES	RO1CA 06248-05	TMP	16,785
ENGLE, RALPH L, JR	PROTEINS AND PLASMA CELLS IN MULTIPLE MYELOMA	RO1CA 01905-16	ALY	21,124
FRIMPTER, G W	RENAL TUBULE DISORDERS	RO1AM 08404-03S1	GMA	1,092
GANDY, HORTENSE M	ANDROGEN METABOLISM	RO1AM 07328-05	END	36,768
GANS, HENRY	INTRAVASCULAR CLOTTING	RO1HE 12324-01	HEM	28,572
GERMAN, JAMES L	CYTOLOGICAL AND BIOCHEMICAL STUDIES IN HUMAN GENETICS	RO1HD 06635-05	GEN	60,784
GERSHON, MICHAEL D	NEURAL CONTROL OF GASTROINTESTINAL ACTIVITY	RO1AI 07436-01	NEUB	39,363
GILDER, HELENA	FACTORS INFLUENCING BODY TISSUE FOLLOWING OPERATION	RO1AM 05259-06S1	SGYB	4,680
GREEN, JACK P	PHARMACOLOGICALLY ACTIVE SUBSTANCES IN NEURAL TISSUE	RO1GM 14278-03	PHRA	10,499
GREIF, ROGER L	THYROXINE AND METABOLISM OF EXCISED TISSUES	RO1AM 00786-13	END	13,216
HASCHEMEYER, RUDY H	BIOPHYSICAL STUDIES ON MACROMOLECULAR INTERACTIONS	RO1HE 11822-01	BBCB	15,350
HEMPLING, HAROLD G	PERMEABILITY OF LEUCOCYTE AND NEOPLASTIC CELL	RO1CA 03690-11	PHY	14,246
HINKLE, LAWRENCE E, JR	SOCIAL MOBILITY PERSONALITY AND CORONARY DISEASE	RO1HE 07796-06	EDC	181,261
HOOK, EDWARD W	SALMONELLOSIS EPIDEMIOLOGY, PATHOGENESIS AND THERAPY	RO1AI 05940-05	BM	35,471
HORWITH, MELVIN	THE FATE OF TRITIUM LABELED VITAMIN D IN MAN	RO1AM 11503-02	GMB	28,909
HOTTA, SHOICHI S	NON-GLUCOSE SUBSTRATES IN RESPIRATION OF BRAIN TISSUE	RO1NB 04152-06	PC	11,127
JACOBSON, JERRY H	CLINICAL ELECTRORETINOGRAPHY	RO1NB 04987-05	VIS	41,606
JAVITT, NORMAN B	STUDIES OF GLUCURONIDE FORMATION IN VIVO	RO1AM 13094-01	GMA	41,284
JEFFRIES, GRAHAM H	STARCH GEL ELECTROPHORETIC STUDIES OF GASTRIC JUICES	RO1AM 10252-13	GM	39,546
KAYE, DONALD	HOST DEFENSE MECHANISMS IN URINARY TRACT INFECTION	RO1AI 07581-02	BM	17,806
KIDD, JOHN G	FACTORS INFLUENCING LYMPHOMA CELLS IN VIVO AND IN VITRO	RO1CA 06833-06	PHRB	11,808
KILBOURNE, EDWIN D	HOST DETERMINANTS OF VIRAL VIRULENCE	RO1AI 01595-11	VR	103,512
KUTT, HENN	METABOLISM AND TOXICITY OF ANTICONVULSANT DRUGS	RO1NB 05329-03S1	PHRA	12,240
KUTT, HENN	METABOLISM AND TOXICITY OF ANTICONVULSANT DRUGS	RO1NB 05329-04	PHRA	29,315
LIEBER, CHARLES S	EFFECTS OF ETHANOL ON CHOLESTEROL METABOLISM	RO1AM 09536-03	MET	20,709
LIEBER, CHARLES S	ETHANOL EFFECT ON HEART, KIDNEY, LIVER AND FAT DEPOSITS	RO1AM 10893-02	MEJ	45,109
LILLEHEI, C WALTON	CARDIAC SURGERY NEW AND IMPROVED METHODS	RO1HE 12206-01	SGYA	139,949
LILLEHEI, C WALTON	MECHANISM AND CORRECTION OF INTRACRANIAL HYPERTENSION	RO1NB 08147-01	NEUA	18,639
LINCOFF, HARVEY A	THE CRYOSURGICAL TREATMENT OF OCULAR DISEASE	RO1NB 05547-04	VIS	35,951
LIPKIN, MARTIN	RENEWAL OF PREMALIGNANT AND MALIGNANT INTESTINAL CELLS	RO1CA 08921-02	PTHB	44,261
LOURIA, DONALD B	STUDIES ON INFECTIONS DUE TO OPPORTUNISTIC MICROBES	RO1AI 05281-05S1	BM	9,030
LUKAS, DANIEL S	CORONARY BLOOD FLOW IN PRIMARY MYOCARDIOPATHIES	RO1HE 07315-06	CVB	21,230
LUKAS, DANIEL S	METABOLISM OF DIGITALIS STEROIDS IN MAN	RO1HE 08950-05	PHRA	25,898
MAC LEOD, JOHN	THE METABOLISM OF HUMAN SPERMATOZOA	RO1HD 00481-10S1	REB	907
MAHOWALD, THEODORE A	AMINO ACID SEQUENCE OF THE ACTIVE SITES OF ENZYMES	RO1GM 10460-06	PC	14,451
MARCUS, AARON J	SUBCELLULAR PLATELET PARTICLES	RO1HE 09070-04	HEM	12,720
MC DERMOTT, WALSH	A STUDY OF LATENT AND DORMANT MICROBIAL INFECTIONS	RO1AI 00635-14S1	SSS	41,597
MC DEVITT, ELLEN	VARIOUS PROBLEMS IN THROMBOEMBOLISM & ATHEROSCLEROSIS	RO1HE 10530-03	SRC	48,465
MC DOWELL, FLETCHER H	RESEARCH CENTER IN CEREBROVASCULAR DISEASE	PO1NB 03346-08	NBPA	243,224
MC DOWELL, FLETCHER H	EXTRACRANIAL ARTERIAL OCCLUSION ADVISORY BOARD	RO1HE 12420-01	SRC	5,000
MC DOWELL, FLETCHER H	COOPERATIVE ANEURYSM STUDY	RO1NB 02384-11	SSS	5,022
MC DOWELL, FLETCHER H	COOPERATIVE STUDY OF ACTH IN MULTIPLE SCLEROSIS	RO1NB 05833-04	SRC	23,867
MC HUGH, PAUL R	MAINTENANCE OF A PRIMATE ANIMAL RESEARCH RESOURCE	PO6FR 00377-02	PME	21,343
MEIKLE, THOMAS H, JR	EFFECTS OF BRAIN LESIONS ON BRIGHTNESS DISCRIMINATION	RO1NB 04974-05	VIS	26,116
MEISTER, ALTON	AMINO ACID AND PROTEIN METABOLISM	RO1AM 12034-01	BIO	344,770
MICHAELS, RHODA M	THE INHIBITION OF SEXUAL MATURATION OF S MANSONI	RO1AI 07175-02S1	SSS	4,812
MURPHY, GEORGE E	RESEARCH ON RHEUMATIC DISEASE AND GLOMERULONEPHRITIS	RO1HE 01803-14	PTHA	81,989
NACHMAN, RALPH L	LEUKEMIA, LYMPHOMA, AND MYELOMA CHEMOTHERAPY	RO1CA 07968-04	SRC	88,705
NEW, MARIA I	ANDROGEN METABOLISM IN CHILDHOOD	RO1HD 00072-05	END	30,123
O LEARY, WILLIAM M	IDENTITY AND DISTRIBUTION OF BACTERIAL FATTY ACIDS	RO1AI 03327-09	PC	19,761
PATTERSON, RUSSEL H, JR	CEREBRAL DAMAGE DURING CARDIOPULMONARY BYPASS	RO1HE 10937-02	SGYB	27,765
PETERSON, RALPH E	ALDOSTERONE SECRETION AND RENIN	RO1AM 04855-08	END	34,103
PITTS, ROBERT F	RENAL REGULATION OF BODY FLUIDS AND ELECTROLYTES	RO1HE 00814-16	CVB	28,348
PLUM, FRED	MECHANISMS CONTROLLING NORMAL AND ABNORMAL RESPIRATION	RO1NB 06386-03	NEUB	46,763
POSNER, JEROME B	BRAIN FUNCTIONS IN METABOLIC DISORDERS	RO1NB 04928-04S1	NEUB	23,409
REIS, DONALD J	CENTRAL NEURAL REGULATION OF BARORECEPTOR REFLEXES	RO1NB 04876-04	NEUA	40,180
REIS, DONALD J	BRAINSTEM CATECHOLAMINES IN THE DEFENSE REACTION	RO1NB 06911-02	NEUA	12,239
RIBBLE, JOHN C	BACTERIAL INTERFERENCE	RO1AI 06220-04	BM	34,846
RIKER, WALTER F JR	PHARMACOLOGICAL ASPECTS OF NEUROMUSCULAR TRANSMISSION	RO1NB 01447-11	PHRA	28,566
ROSS, LEONARD L	CYTOLOGICAL LOCALIZATION OF SEROTONIN	RO1NB 05539-04	NEUB	25,140
RUBIN, ALBERT L	STUDIES IN RENAL DISEASES	PO1HE 08736-05	HEP	166,891
RUBIN, WALTER	STUDY OF MALIGNANT AND PREMALIGNANT GASTRIC EPITHELIA	RO1AM 11352-02	PTHB	26,762
SACKLER, MURIEL LAZARUS	EFFECTS OF GENETIC FACTORS ON MAMMALIAN DEVELOPMENT	RO1HO 02462-02	GEN	17,381

TABLE 2—RESEARCH GRANTS, BY AREA, INSTITUTION, AND PRINCIPAL INVESTIGATOR

INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRG	DOLLARS
NEW YORK—(CON.)				
SAXENA, BRIJ B	PITUITARY GONADOTROPHIC & GROWTH HORMONE	R01AM 11187-02	END	46,105
SCHUBERT, EDWARD T	ENZYME STUDIES OF ISOLATED RENAL TUBULES	R01AM 09904-03	MET	20,820
SCHWARTZ, DORIS R	FOLLOW UP ASSESSMENT OF THE 19 FAREDEC PROGRAMS	R02NU 00307-01	NR	24,205
SILAGI, SELMA	GENE ACTION AND CELLULAR DIFFERENTIATION IN CULTURE	R01CA 10095-02	GEN	37,210
SUGG, JOHN Y	STUDY OF INFLUENZA VIRUS VARIANTS	R01AI 00097-19	VR	14,203
SWAN, ROY C	FINE STRUCTURE OF STRIATED MUSCLE	R01AM 06290-06	CBY	26,529
TORACK, RICHARD M	ELECTRON HISTOCHEMISTRY OF THE NERVOUS SYSTEM	R01NB 04161-04S1	NEUA	2,597
TORACK, RICHARD M	ELECTRON HISTOCHEMISTRY OF THE NERVOUS SYSTEM	R01NB 04161-06	NEUA	64,235
VAN POZNAK, ALAN	NEUROMUSCULAR EFFECTS OF ANESTHETICS	R01NB 06512-02	PHRA	32,222
WATSON, ROBERT F	EXPERIMENTAL RHEUMATIC FEVER	R01HE 01138-17	ALY	40,441
WELLNER, DANIEL	STRUCTURAL STUDIES ON AMINO ACID OXIDASES	R01AM 12068-01	BIO	19,171
WINDHAGER, ERICH E	ION AND WATER TRANSPORT ACROSS RENAL TUBULES	R01AM 11489-02	PHY	14,812
INSTITUTION TOTAL	92	4,717,207		
FORDHAM UNIVERSITY				
AIELLO, EDWARD L	PHYSIOLOGICAL REGULATION OF CELL METABOLISM	R01NB 07402-02	MBY	23,789
CLARKE, DONALD D	TRANSGLUTAMINASE FACTOR - PURIFICATION AND PROPERTIES	R01NB 07890-04	PC	23,249
HERSKOVITS, THEODORE T	CONFORMATION AND DIFFERENCE SPECTRA OF PROTEINS	R01GM 14468-02	BBCA	37,489
MORICONI, EMIL J	BETA-LACTAMS VIA CHLOROSULFONYL ISOCYANATE CYCLOADDITION	R01AI 08063-01	MCHA	36,181
INSTITUTION TOTAL	4	120,708		
HASKINS LABORATORIES				
COOPER, FRANKLIN S	RESEARCH PROGRAM ON DYNAMICS OF SPEECH ARTICULATION	P01DE 01774-06	DEP	138,330
COOPER, FRANKLIN S	NATURE AND ACQUISITION OF THE SPEECH CODE	P01HD 01994-03	HDP	101,754
COOPER, FRANKLIN S	GENERAL RESEARCH SUPPORT GRANT	S01FR 05596-04	NSS	75,108
HUTNER, SEYMOUR H	NEW PROTOZOAL TESTS FOR TRYPANOCIDES & LEISHMANICIDES	R01AI 07895-02	TMP	76,752
PROVASOLI, LUIGI	ALGAL SYMBIOSIS IN CONVOLUTA	R01AM 10348-03	TMP	13,477
INSTITUTION TOTAL	5	405,421		
HEALTH INSURANCE PLAN OF GREATER NEW YORK				
SHAPIRO, SAM	INCIDENCE AND PROGNOSIS OF CORONARY HEART DISEASE	R01HE 05794-08	EDC	73,935
INSTITUTION TOTAL	1	73,935		
HOSPITAL FOR JOINT DISEASES				
GOLDBERG, ARTHUR F	CYTOCHEMISTRY OF CELLULAR ORGANELLES IN BLOOD CELLS	R01CA 07178-05S1	PHRB	5,220
HOFFMAN, PHILIP	THE MUCOPOLYSACCHARIDES OF CONNECTIVE TISSUE	R01AM 08482-05	PC	43,376
HOLLANDER, VINCENT P	STUDIES ON HORMONALLY SENSITIVE TUMORS	R01CA 10064-06	END	93,874
HOLLANDER, VINCENT P	GENERAL RESEARCH SUPPORT GRANT	S01FR 05589-04	NSS	94,611
MANKIN, HENRY J	PROTEIN SYNTHESIS IN ARTICULAR CARTILAGE	R01AM 11382-02	GMA	35,001
MASHBURN, LOUISE T	MECHANISM OF THE ANTILYMPHOMA ACTION OF ASPARAGINASE	R01CA 08765-03	PTHB	30,306
MONDER, CARL	NEW PATHWAYS OF CORTICOSTEROID METABOLISM	R01AM 09006-03S1	END	29,359
ROSENTHAL, ROBERT L	BLOOD COAGULATION MECHANISMS IN HEALTH AND DISEASE	R01HE 07300-07	HEM	17,983
ROSENTHAL, ROBERT L	BLOOD COAGULATION MECHANISMS IN HEALTH AND DISEASE	R01HE 07300-08	HEM	18,358
INSTITUTION TOTAL	9	368,088		
HOSPITAL FOR SPECIAL SURGERY				
BAUER, GORAN C	AGE CHANGES IN BONE	P01AM 09982-03	AMP	175,865
BAUER, GORAN C H	GENERAL RESEARCH SUPPORT GRANT	S01FR 05495-06	NSS	107,082
FIRSCHER, HILLIARD E	BONE METABOLISM	R01AM 08978-04	GMB	28,493
KORNGOLD, LEONHARD	DETERMINATION OF SPECIFIC ANTIGENS FOR TUMOR TISSUES	R01CA 04798-10	IMB	29,679
KORNGOLD, LEONHARD	PURIFICATION OF HUMAN TISSUE ANTIGENS	R01CA 04799-10	ALY	23,112
MELLORS, ROBERT C	IMMUNOPATHOLOGY OF NZB MICE	R01AM 09119-04	IMB	94,455
MELLORS, ROBERT C	SUBCELLULAR ANALYSIS OF TISSUE SECTIONS WITH MICROPROBE	R01GM 10119-06	PTHB	31,200
POSNER, AARON S	ULTRASTRUCTURE OF HARD TISSUE	P01DE 01945-05	DEP	181,088
INSTITUTION TOTAL	8	670,974		
INSTITUTE FOR MEDICAL RESEARCH AND STUDIES				
KESTON, ALBERT S	MUTAROTASE ROLE IN GLUCOSE METABOLISM	R01AM 03568-09	MET	31,140
KESTON, ALBERT S	OXIDASES AND REACTION PRODUCTS IN OCULAR MELANOMAS	R01CA 04784-08	PTHB	21,000
KESTON, ALBERT S	ENZYME INHIBITORS & CATARACTOGENESIS	R01NB 05075-05	VIS	19,000
SCOTT, WALTER N	REGULATION OF RENAL GROWTH	R01AM 13135-01	GMB	24,156
INSTITUTION TOTAL	4	95,296		
INSTITUTE FOR MUSCLE DISEASE				
ACS, GEORGE	STUDIES ON CHEMOTHERAPEUTIC RIBONUCLEOSIDES	R01CA 08751-03	PHRB	65,750
BARANY, MICHAEL	INTERACTION BETWEEN ACTIN, MYOSIN AND ATP	R01AM 04873-08	BIO	34,800
CONOVER, THOMAS E	ATP-PROTEIN INTERACTIONS IN THE UTILIZATION OF ENERGY	R01AM 10701-02	BIO	13,880
COSMOS, ETHEL	METABOLIC AND MORPHOGENIC STUDIES ON DEVELOPING MUSCLE	R01NB 06942-02	MBY	22,280
KIBRICK, ANDRE C	COLLAGEN METABOLISM IN MAN AND ANIMALS	R01AM 06706-07	GMA	41,412
LAVIN, DANIEL H	THE STRUCTURE AND FUNCTION OF ABNORMAL NUCLEIC ACIDS	R01GM 16316-01	PC	23,595
MILHORAT, ADE T	GENERAL RESEARCH SUPPORT GRANT	S01FR 05579-04	NSS	236,731
RESSLER, CHARLOTTE	BIOCHEMISTRY OF NATURAL AMINO ACID NEUROLATHYROGENS	R01NB 04316-06	TOX	37,803
SANDOW, ALEXANDER	ACTIVATION AND RELAXATION MECHANISMS	R01NB 04262-06	PHY	37,500
INSTITUTION TOTAL	9	513,751		

TABLE 2—RESEARCH GRANTS, BY AREA, INSTITUTION, AND PRINCIPAL INVESTIGATOR

INVESTIGATOR	PROJECT TITLE	GRANT NO	IRG	DOLLARS
NEW YORK—(CON.)				
JEWISH HOME AND HOSPITAL FOR AGED				
KORNZWEIG, ABRAHAM L	STUDIES OF THE MACULA LUTEA IN THE AGED EYE	R01NB 06717-02	VIS	12,984
INSTITUTION TOTAL 1	12,984			
JEWISH HOSPITAL OF BROOKLYN				
BERMAN, A J	CNS PLASTICITY DURING CRITICAL PERIODS OF DEVELOPMENT	P01HD 03113-01	HDP	238,202
BLEICHER, SHELDON J	ELECTROLYTES, HORMONES AND ADIPOSE TISSUE METABOLISM	R01AM 12373-01	MET	24,549
ERTEL, NORMAN H	FREE PLASMA ESTROGENS METHODOLOGY AND APPLICATIONS	R01CA 08650-02	END	31,097
GOLDNER, MARTIN G	CLINICAL RESEARCH UNIT FOR METABOLIC DISEASES	P02AM 08106-04S1	AMP	79,531
GOLDNER, MARTIN G	THE RELATION OF TREATMENT TO DIABETIC COMPLICATIONS	R01AM 05648-08	SSS	49,340
GOLDNER, MARTIN G	COOPERATIVE STUDY IN BREAST CANCER HORMONE THERAPY	R10CA 06209-07A1	SRC	25,506
GOLDNER, MARTIN G	GENERAL RESEARCH SUPPORT GRANT	S01FR 05503-06	NSS	63,998
INSTITUTION TOTAL 7	512,223			
KINGSBROOK JEWISH MEDICAL CENTER -ISAAC ALBERT RESEARCH INSTITUTE				
BERMAN, A J	CONDITIONING IN THE ABSENCE OF SENSORY FEEDBACK	R01NB 03045-08	NEUB	76,687
KORMAN, SAMUEL	IRON AND PROTEIN METABOLISM OF NEOPLASTIC PATIENTS	R01CA 07568-05	MET	43,027
SAIFER, ABRAHAM	STUDIES OF PROTEINS IN CHRONIC DISEASES	R01NB 00285-15	BBCB	54,933
VOLK, BRUNO W	STUDIES ON EXPERIMENTAL SUBDIABETES	R01AM 02203-10	PTHA	50,976
VOLK, BRUNO W	ELECTRON MICROSCOPY AND BIOCHEMISTRY OF LIPIDOSES	R01NB 02977-07	NEUB	30,053
VOLK, BRUNO W	GENERAL RESEARCH SUPPORT GRANT	S01FR 05532-06	NSS	65,895
INSTITUTION TOTAL 6	321,571			
LENOX HILL HOSPITAL				
ECHLIN, FRANCIS A	SPASM OF BASILAR ARTERY CAUSED BY SUBARACHNOID BLOOD	R01NB 06379-03	NEUA	16,862
INSTITUTION TOTAL 1	16,862			
LEONARD WOOD MEMORIAL				
CHANG, SING CHEN	STRUCTURAL CHANGES IN M LEPRAE AND OTHER MYCOBACTERIA	R01AI 03546-06S1	BM	3,958
HANKS, JOHN H	CULTIVATION OF M. LEPRAE. SEARCH FOR A RATIONAL BASIS	R01AI 06944-03	BM	73,188
MORRISON, NORMAN E	CULTIVATION OF MYCOBACTERIUM LEPRAE	R22AI 08416-01	SSS	60,049
INSTITUTION TOTAL 3	137,195			
MAIMONIDES MEDICAL CENTER				
BIEZENSKI, JERZY J	ROLE OF PLACENTA IN FORMATION OF FETAL LIPIDS	R01HD 00441-06	MET	34,765
COHEN, IRVIN J	GENERAL RESEARCH SUPPORT GRANT	S01FR 05497-06	NSS	105,559
COLLENS, WILLIAM S	CHOLESTEROL TOLERANCE	R01HE 08140-04S1	PTHA	3,488
DEREN, JULIUS J	DEVELOPMENTAL AND ADAPTIVE CHANGES IN THE INTESTINE	R01AM 09947-03	GM	44,139
GLICK, SEYMOUR M	SECRETION OF GROWTH HORMONE	R01AM 09219-04	END	44,115
GREIF, ERNST	COOPERATIVE STUDY OF DRUGS AND CORONARY HEART DISEASE	R01HE 10698-03	SRC	58,328
GROB, DAVID	DEFECT IN MYASTHENIA AND OTHER NEUROMUSCULAR DISEASES	R01NB 03464-08	PHRA	103,149
GROB, DAVID	EASTERN CANCER CHEMOTHERAPY STUDY	R10CA 05588-08	SRC	41,475
KAGAN, AVIR	EFFECT OF CORTICOSTEROIDS ON INSULIN RESISTANCE	R01AM 10323-03	MET	32,756
KANTROWITZ, ADRIAN	ASSISTED CIRCULATION	P01HE 11173-02	HEPB	522,432
KLEINFELD, MORRIS	COMPARISON OF PURKINJE AND VENTRICULAR MUSCLE CELLS	R01HE 09377-03S2	PHY	1,517
KOZINN, PHILIP J	LOCAL FACTORS OF IMMUNITY IN CONJUNCTIVA AND UTERUS	R01HD 01029-03S1	BM	8,400
KOZINN, PHILIP J	HIST FACTORS IN CANDIDAL INFECTIONS IN LYMPHOMA	R01HO 02029-02S2	BMA	4,193
LEE, STANLEY L	CHEMOTHERAPY OF LEUKEMIA AND ALLIED DISEASES	R10CA 05923-07	SRC	272,115
LEE, STANLEY L	STUDIES OF PROTECTED ENVIRONMENT IN LEUKEMIA THERAPY	R10CA 10047-02	NSS	148,835
ROSNER, FRED	DERMATOGLYPHIC STUDIES OF HEMATOLOGICAL DISORDERS	R01AM 10709-02	HEM	31,893
RUDOLPH, NATHAN	EFFECT OF AMINO ACID LEVELS ON PROTEIN BIOSYNTHESIS	R01HD 03691-01	NTN	31,290
SECHZER, PHILIP H	CRITICAL EVALUATION OF ASSISTED RESPIRATION	R01HE 11014-02	SCYA	19,835
SHERMAN, JACQUES L, JR	METABOLIC INTERMEDIATES IN HUMAN DIABETES	R01AM 11957-01	MET	18,350
INSTITUTION TOTAL 19	1,526,634			
MANHATTAN COLLEGE				
BATT, BROTHER C WILLIAM	CHEMICAL MODIFICATION OF THROMBIN AND ITS ACTIVE SITE	R01HE 09055-04	BIO	20,800
BEARDSLEY, ROBERT E	MECHANISMS OF TUMOR INDUCTION IN CROWN GALL	R01CA 06956-06	MBY	25,285
INSTITUTION TOTAL 2	46,085			
MASONIC FOUNDATION FOR MEDICAL RESEARCH AND HUMAN WELFARE				
TUTTLE, RICHARD S	HISTAMINE AND VASOMOTOR REGULATION	R01NB 07767-01	PHY	19,098
INSTITUTION TOTAL 1	19,098			
MEMORIAL HOSPITAL FOR CANCER AND ALLIED DISEASES				
CLIFFORD, GEORGE O	USE AND EVALUATION OF PLATELET CONCENTRATES	R10CA 08872-03	SRC	24,788
INSTITUTION TOTAL 1	24,788			
MEMORIAL SLOAN KETTERING CANCER CENTER				
BURCHENAL, JOSEPH H	CANCER CLINICAL RESEARCH	P02CA 05826-07	SSS	629,843
MYERS, W P LAIRD	GROWTH AND METABOLISM IN CANCER PATIENTS	P02CA 07303-05	SSS	39,689
INSTITUTION TOTAL 2	669,532			
MONTEFIORE HOSPITAL AND MEDICAL CENTER				
BECKER, NORWIN H	A STRUCTURE-FUNCTION STUDY OF BRAIN CYTOMEMBRANES	R01NB 05257-05	NEUA	19,482

TABLE 2—RESEARCH GRANTS, BY AREA, INSTITUTION, AND PRINCIPAL INVESTIGATOR

INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRG	DOLLARS
NEW YORK—(CON.)				
BROWN, EARL B	THE NATURAL HISTORY OF ASTHMA, A COHORT STUDY	ROIHD 01806-02S1	AIB	668
BROWN, EARL B	THE NATURAL HISTORY OF ASTHMA, A COHORT STUDY	ROIHD 01806-03	IMB	22,302
CHERKASKY, MARTIN	GENERAL CLINICAL RESEARCH CENTER	MO1FR 00053-07	CLR	685,273
CHERKASKY, MARTIN	GENERAL RESEARCH SUPPORT GRANT	SO1FR 05499-06	NSS	215,592
ESCHER, DORIS J	ARTIFICIALLY PACED HEARTS METHODS PHYSIOLOGY	ROIHE 04666-09	CVA	34,859
FINBERG, LAURENCE	PHYSIOLOGY OF ALTERATIONS OF OSMOLAR CONCENTRATIONS	ROIINB 04700-04S1	HED	998
FINBERG, LAURENCE	PHYSIOLOGY OF OSMOLAR CONCENTRATIONS	ROIINB 04700-05S1	HED	19,262
FURMAN, SEYMOUR	RECHARGEABLE CARDIAC PACEMAKER FOR PERMANENT IMPLANT	ROIHE 09368-03	SGYA	30,253
GALLAGHER, THOMAS F	STEROID HORMONE PRODUCTION AND METABOLISM IN CANCER	ROIICA 07304-05	SSS	696,121
GERBER, IRWIN	PERCEPTIONS OF NURSING CARE BEHAVIOR	ROIINB 00219-02	NR	43,222
GLIEDMAN, MARVIN L	COOPERATIVE STUDY OF RENOVASCULAR HYPERTENSION	ROIHE 06645-07	SRC	47,877
HAIMOVICI, HENRY	ALTERATIONS OF THE ARTERIAL TISSUE IN ATHEROSCLEROSIS	ROIHE 03444-11	PTHA	38,554
HALL, LYDIA E	LONG-TERM EFFECTS OF AN EXPERIMENTAL NURSING PROCESS	ROI2NU 03008-01	NR	108,226
LALEZARI, PARVIZ	HUMAN LEUKOCYTE ANTIGENS	ROIHE 10036-03S1	HEM	9,730
LAWYER, TIFFANY, JR	EXTRACRANIAL ARTERIAL OCCLUSION—A JOINT STUDY	ROIHE 06279-07	SRC	36,339
LEITER, LOUIS	RESEARCH FROM MEDICAL RECORDS ON A HOSPITAL COMPUTER	ROIIGM 14526-01A1	COM	82,766
LEITER, LOUIS	ELECTROLYTES AND FLUID IN NORMAL AND DISEASE STATES	ROIHE 00035-20S1	CVA	34,277
NATHENSON, GERALD	FETO-MATERNAL GAMMA GLOBULIN INCOMPATIBILITY	ROIHD 02737-02	ALY	14,261
OPPENHEIMER, JACK H	THYROXINE-PROTEIN INTERACTIONS	ROIINB 03000-08	END	93,555
RIEDER, RONALD F	PROTEIN SYNTHESIS IN ERYTHROID PRECURSORS	ROIAM 09798-03	HEM	1,981
SACHS, BERNARD A	COOPERATIVE STUDY OF DRUGS AND CORONARY HEART DISEASE	ROIHE 11375-02	SRC	81,731
SAVITSKY, J PHILIP	ALTERED SERUM LIPID REGULATION BY INJECTED DNA	ROIAM 02286-09S1	MET	13,326
SHEPPARD, IRVING M	CINEFLUOROGRAPHY OF FUNCTION WITH COMPLETE DENTURES	ROIIDE 02462-03	DEN	16,095
SHEPPARD, IRVING M	INCIDENCE AND SIGNIFICANCE OF DENTURE LESIONS	ROIHD 00096-03	DEN	11,706
SINGER, JACQUES M	IMMUNOLOGIC STUDIES WITH CARRIERS	ROIAM 06052-08	ALY	30,370
SINGER, JACQUES M	LATEX PARTICLES AS A CARRIER OF RADIOISOTOPES	ROIIGM 15244-02	RAD	34,482
SMITH, J CRISPIN	ATYPICAL HUMAN PLASMA CHOLINESTERASE	ROIINB 05541-04	PHRA	20,880
SPAET, THEODORE H	HEMOSTATIC HOMEOSTASIS	ROIHE 05415-08	HEM	61,202
TOBIS, JEROME S	STUDY OF THE PHYSICAL PERFORMANCE OF THE ELDERLY PATIENT	ROIHD 00599-06	AFY	55,418
VEITH, FRANK J	STUDIES IN VENOVENOUS PUMP-OXYGENATOR BYPASS	ROIHE 11472-02	SGYA	61,668
VEITH, FRANK J	INTRARENAL DISTRIBUTION OF BLOOD FLOW	ROIHE 11567-01	SGYA	29,913
ZIMMERMAN, HARRY M	FINE STRUCTURE OF INFLAMMATION IN THE BRAIN	ROIINB 03533-07	PTHA	23,363
INSTITUTION TOTAL	33	2,675,752		
MOUNT SINAI SCHOOL OF MEDICINE				
ALEDORT, LOUIS M	PLATELET METABOLISM - EFFECTS OF IMMUNE INJURY	ROIHE 10905-03	HEM	35,509
ANDERSON, PAUL J	PATHOLOGICAL ANATOMY OF THE NEUROMUSCULAR JUNCTION	ROIINB 05041-05	NEUB	68,779
BENDER, MORRIS B	STUDIES IN CLINICAL NEUROLOGY	PO1NB 05221-03S1	NBP	575
BENDER, MORRIS B	STUDIES IN CLINICAL NEUROLOGY	PO1NB 05221-04	NBP	145,014
BENDER, MORRIS B	THE OCULOMOTOR SYSTEM AND BODY POSTURAL MECHANISMS	ROIINB 00294-15	VIS	118,772
BENDER, MORRIS B	EFFECTS OF AROUSAL ON HUMAN OCULOMOTOR FUNCTION	ROIINB 04576-05S1	NEUA	120
BENDER, MORRIS B	EFFECTS OF AROUSAL ON HUMAN OCULOMOTOR FUNCTION	ROIINB 04576-06	NEUA	24,840
BRINBERG, LOUIS	QUANTITATIVE VECTORELECTROCARDIOGRAPHY	ROIHE 09987-03	CVB	20,461
CHANLEY, J D	PHOSPHAMIDASE & ITS OCCURRENCE IN EPITHELIAL TUMORS	ROIICA 02336-14	PC	22,575
CHERRY, SHELDON H	AMNIOTIC CONSTITUENTS IN FETAL ERYTHROBLASTOSIS	ROIHD 02239-03	HED	32,176
CHURCH, JACOB	GLOMERULAR AND TUBULAR STRUCTURE IN RENAL DISEASES	ROIAM 00918-12S1	PTHA	6,777
CHURCH, JACOB	GLOMERULAR AND TUBULAR STRUCTURE IN RENAL DISEASES	ROIAM 00918-13	PTHA	51,824
DAMESHEK, WILLIAM	SOME FORMS OF LEUKEMIA AS IMMUNOPROLIFERATIVE DISORDERS	ROIICA 10478-01	HEM	69,287
DANESE, CALLISTO A	EXPERIMENTAL STUDIES IN CHRONIC LYMPHEDEMA	ROIHE 10157-03	SGYA	25,440
DAVIS, BARUCH J	ANALYSIS AND PURIFICATION OF BIO-MACROMOLECULES	ROIAM 10711-02	ALY	50,612
DE SALEGUI, MIRIAM	SUBUNIT STRUCTURE OF MUCINS	ROIAM 11982-01	PC	54,267
DREILING, DAVID A	SECRETION OF FLUID AND ELECTROLYTES BY THE PANCREAS	ROIAM 03889-08	GM	52,189
FRIEDBERG, CHARLES K	HEMODYNAMICS AND ELECTROLYTES IN LEFT HEART FAILURE	ROIHE 01152-15	CVB	19,547
FRIEDBERG, CHARLES K	EFFECTS OF EXERCISE AND DRUGS IN HEART BLOCK	ROIHE 09416-03S1	CVA	2,306
FRIEDBERG, CHARLES K	EFFECTS OF EXERCISE AND DRUGS IN HEART BLOCK	ROIHE 09416-04	CVA	47,265
FRIEDBERG, CHARLES K	COOPERATIVE STUDY OF DRUGS AND CORONARY HEART DISEASE	ROIHE 10697-03	SRC	75,219
FRIEND, CHARLOTTE	FILTERABLE AGENTS AND TUMOR INDUCTION IN MICE	ROIICA 10000-02	VR	143,671
GABRILOVE, J LESTER	GAS CHROMATOGRAPHIC ASSAY OF ALDOSTERONE	ROIAM 11855-01	END	17,911
GABRILOVE, J LESTER	STUDIES ON TESTICULAR FUNCTION	ROIHD 02764-02	PTHA	12,559
GELB, ALVIN M	SELECTED INFLUENCES ON INTESTINAL ABSORPTION	ROIAM 09084-03S1	GMA	4,479
GLICKSMAN, ARVIN S	RADIATION EFFECTS ON COLLAGEN SYNTHESIS	ROIICA 10796-01	RAD	28,623
GREENBERG, MICHAEL L	KINETICS OF CELL TURNOVER IN LEUKEMIA	ROIICA 10515-01	PHRB	29,158
GUTMAN, ALEXANDER B	PURINE METABOLISM AND GOUTY ARTHRITIS	ROIAM 00162-17	PHRA	68,474
HAUSKNECHT, RICHARD U	ESTROGEN PRECURSORS IN THE POST-MENOPAUSAL FEMALE	ROIHD 02513-02	REB	15,972
HERBERT, VICTOR	VITAMIN B12 AND FOLIC ACID METABOLISM	ROIAM 09062-05	HEM	29,917
HERBERT, VICTOR	STUDIES ON VITAMIN B12 AND INTRINSIC FACTOR	ROIAM 09564-03	HEM	42,341
HERBERT, VICTOR D	STUDIES OF NUTRITIONAL ANEMIA IN SOUTHEAST ASIA	R22AM 11048-02	SSS	25,712
HIRSCHHORN, KURT	CELLULAR ASPECTS OF HUMAN GENETICS AND IMMUNOLOGY	ROIHD 02552-02	GEN	159,792
HODES, HORACE L	SEX DIFFERENCE IN SERUM IGA POLIO ANTIBODY	ROIAI 07131-03	VR	31,243
HODES, HORACE L	SPECIFIC VIRAL ANTIBODY IN EXTERNALLY SECRETED FLUIDS	ROIAI 07494-02	VR	44,327
HODES, HORACE L	STUDY OF RUBELLA ANTIBODIES BY RADIOACTIVITY METHODS	ROIAI 07808-02	VR	23,089
JAMES, GEORGE	GENERAL RESEARCH SUPPORT GRANT	SO1FR 05653-01	NSS	387,015
JANOWITZ, HENRY D	SOURCE AND SIGNIFICANCE OF GASTRIC JUICE POTASSIUM	ROIAM 02290-11	GMA	71,681

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INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRG	DOLLARS
NEW YORK—(CON.)				
KAHN, MELVIN	EXTRACELLULAR POTASSIUM AND REABSORPTION OF CHLORIDE	RO1HE 06493-07	PHRA	43,468
KARLIN, DAVID B	OCULAR TISSUE EFFECTS OF ULTRASONIC ENERGY	RO1NB 06333-02	VIS	33,540
KNITTLE, JEROME L	EFFECT OF EARLY NUTRITION ON GROWTH AND DEVELOPMENT	RO1HD 03326-01	NTN	56,526
KOFFLER, DAVID	DRUG INDUCED ALLERGIC LIVER DISEASE	RO1AM 11115-02	IMB	34,002
KORNFIELD, PETER	C14 ANTICHLINESTERASE DRUGS IN MYASTHENIA	RO1NB 07593-01	PHRA	27,181
KOWAL, JEROME	THE ENZYMIC CONTROL OF STEROID BIOSYNTHESIS	RO1AM 09901-03	END	13,611
KRAUSS, STEPHEN	EFFECTS OF HORMONES ON SERUM HAPTOGLOBIN METABOLISM	RO1CA 08775-03	MET	35,047
KUHN, LESLIE A	EXTRACORPoreal CIRCULATION IN MYOCARDIAL INFARCTION	RO1HE 04132-09	CVA	47,264
LEHRER, GERARD M	QUANTITATIVE BIOCHEMISTRY OF SINGLE NEURONS	RO1NB 05368-04	NEUB	72,176
LEDPOLD, IRVING H	CLINICAL OUT-PATIENT CENTER FOR OCULAR PHARMACOLOGY	P15NB 06846-03	NBPPB	45,305
LEDPOLD, IRVING H	STUDIES ON OCULAR PHARMACOLOGY	RO1NB 06579-02	VIS	88,132
MAKER, HOWARD S	CHANGES WITH AGE IN THE BIOCHEMISTRY OF NEURONS	RO1NB 06224-02	MET	41,405
MALIS, LEONARD I	INTERACTION IN THE VISUAL PATHWAYS	RO1NB 01413-11	VIS	75,260
MC BRIDE, RAYMOND A	ANALYSIS OF GRAFT-HOST INTERACTION IN CHICKENS	RO1AM 10036-04	IMB	31,700
MENDLOWITZ, MILTON	CAUSE AND TREATMENT OF HYPERTENSION	RO1HE 06546-07	CVA	96,300
ORESKE, IRWIN	REACTION OF ALTERED GLOBULINS WITH RHEUMATOID FACTORS	RO1AM 06380-06	ALY	22,329
ORNSTEIN, LEONARD	CELL STRUCTURE AND FUNCTION	RO1NB 08158-05	ALY	57,540
POPPER, HANS	STRUCTURE AND FUNCTION IN LIVER DISEASES	RO1AM 03846-09	PTHB	238,058
ROSENFELD, RICHARD E	ABO ERYTHROBLASTOSIS	RO1HE 04456-10	HED	43,056
RUBIN, BETTY L	ASSAY OF STEROID-3B-01-DEHYDROGENASE	RO1AM 12384-01	END	13,087
RUBIN, BETTY L	STEROID 3B-0L- DEHYDROGENASE AND OVARIAN SECRETION	RO1HD 03527-02	REB	38,234
RUDICK, JACK	THE TRANSPORT OF GASTRIC SECRETAGOGUES IN LYMPH	RO1AM 11580-02	GMA	42,984
SAFIR, ARAN	SPECTRAL VARIATION OF RETINAL DIRECTIONAL SENSITIVITY	RO1NB 05895-04	VIS	23,403
SAFIR, ARAN	INTRACULAR PRESSURE IN YOUNG DIABETICS	RO1NB 05896-03	VIS	26,533
SCHNITZER, ROBERT J	TRANSMISSIBLE MULTIPLE DRUG RESISTANCE REVERSIBILITY	RO1AI 08193-01	PHRB	81,580
SCHUPAK, EUGENE	MECHANISMS OF HYPERTENSION IN CHRONIC RENAL FAILURE	RO1HE 11912-01	CVA	14,402
SCHWARTZ, IRVING L	MECHANISM OF ACTION OF PEPTIDE HORMONES	RO1AM 10080-03	END	90,948
SEEGERS, WINNIFRED	GENETIC VARIATIONS OF HUMAN SERUM B-LIPOPROTEINS	RO1HE 11129-01S1	GEN	6,490
SELIKOFF, IRVING J	ASBESTOS EXPOSURE-RISK IN DEFINED HUMAN POPULATIONS	PO1ES 00358-01	SSS	367,180
SIFFERT, ROBERT S	EPIPHYSEAL OSTEOGENESIS AND CHONDROGENESIS	RO1AM 11072-02	SCYB	29,098
SILTZBACH, LOUIS E	FRACTIONATION OF NICKERSON-KVEIM TISSUE SUSPENSIONS	RO1AI 02272-10	ALY	62,050
SOFFER, LOUIS J	GONADOTROPIN-INHIBITING SUBSTANCE IN URINE	RO1AM 05301-07	END	28,241
SPIERA, HARRY	TRYPTOPHAN METABOLITES IN RHEUMATOID ARTHRITIS	RO1AM 07726-04S1	GMA	9,348
STEIN, RICHARD M	EFFECTS OF CHRONIC RENAL ISCHEMIA ON RENAL FUNCTION	RO1HE 08535-04	CVB	43,142
STEINBERG, MARTIN R	GENERAL CLINICAL RESEARCH CENTER	MO1FR 00071-05	CLR	391,987
STEINBERG, MARTIN R	INSTITUTIONAL ANIMAL RESOURCE	PO6FR 00309-03	SSS	29,153
SWARTZ, JEAN G	RETINAL ROD MEMBRANE SYSTEMS	RO1NB 07412-01S1	VIS	9,608
TUCKMAN, JOHN	HEMODYNAMICS OF HYPERTENSION	RO1HE 09387-03	CVB	34,714
WARNER, RICHARD R	SEROTONIN ROLE IN THE GI TRACT	RO1AM 03228-10	GM	29,926
WASSERMAN, LOUIS R	ABNORMAL PROTEINS IN HEMATOLOGICAL DISORDERS	RO1AM 04434-07S1	HEM	12,000
WASSERMAN, LOUIS R	POLYCYTHEMIA VERA STUDY GROUP	RO1CA 10728-01	SRC	138,309
WASSERMAN, LOUIS R	CHEMOTHERAPY OF ACUTE LEUKEMIA INTERIM SUPPORT-PVSG	R10CA 04457-08S1	SRC	51,007
WASSERMAN, LOUIS R	CHEMOTHERAPY OF LEUKEMIA, MYELOMA AND LYMPHOMA	R10CA 04457-09	SRC	183,597
WASSERMAN, LOUIS R	ROLE OF GERM-FREE ENVIRONMENT IN CANCER CHEMOTHERAPY	R10CA 08866-03	NSS	63,200
WEDEEN, RICHARD P	RENAL TUBULAR LOCALIZATION OF Hg203 BY AUTORADIOGRAPHY	RO1AM 07978-04	PTHA	53,404
WINKLER, MARVIN H	CONSTITUTION AND CONFIGURATION OF ANTIBODY SITES	RO1AI 08433-01	ALY	17,961
WOLF, BERNARD S	STRUCTURE AND FUNCTION OF THE ESOPHAGOGASTRIC JUNCTION	RO1AM 06505-05S1	GMA	7,706
WOLF, BERNARD S	CEREBRAL VEINS - ANATOMY & RADIOLOGIC CORRELATION	RO1HE 09913-03	RAD	22,427
INSTITUTION TOTAL	86	5,083,137		
NATIONAL CYSTIC FIBROSIS RESEARCH FOUNDATION				
SHWACHMAN, HARRY	SYMPOSIUM ON CYSTIC FIBROSIS AND RELATED DISEASES	R13AM 12383-01	NSS	14,000
INSTITUTION TOTAL	1	14,000		
NEW YORK ACADEMY OF MEDICINE				
JARCHO, SAUL	THE DEVELOPMENT OF THE CONCEPT OF HEART FAILURE	RO1HE 10948-02	HM	10,669
INSTITUTION TOTAL	1	10,669		
NEW YORK ACADEMY OF SCIENCES				
BAHNSON, CLAUD B	2ND CONF PSYCHOPHYSIOLOGICAL ASPECTS OF CANCER	R13CA 10899-01	NSS	19,600
LA DU, BERT N, JR	CONFERENCE ON PHARMACOGENETICS	R13GM 15487-01	PHRA	20,200
INSTITUTION TOTAL	2	39,800		
NEW YORK BOTANICAL GARDEN				
ANCHEL, MARJORIE	UNUSUAL METABOLIC PRODUCTS OF FUNGI	RO1AI 00226-17	BM	89,727
BARKSDALE, ALMA W	THE SEXUAL HORMONES OF ACHLYA BISEXUALIS	RO1HD 00850-11	MBC	53,333
DAVIS, DAVID	PHYSIOLOGY OF SELECTIVE PATHOGENICITY IN FUSARIUM	RO1AI 03527-08	MBC	30,880
MC MORRIS, TREVOR C	CHEMISTRY AND BIOGENESIS OF FUNGAL METABOLITES	RO1GM 12150-04	MCHA	50,250
STEEER, WILLIAM C	GENERAL RESEARCH SUPPORT GRANT	SO1FR 05621-02	NSS	103,790
INSTITUTION TOTAL	5	327,980		
NEW YORK MEDICAL COLLEGE				
BERGMANN, LOUIS L	NEUROHISTOLOGY OF SURGICALLY TREATED PARKINSONISM	RO1NB 05741-03S1	NEUA	503
BLACK, MAURICE M	ACID EXTRACTABLE PROTEINS OF CANCER CELLS	RO1CA 05678-06S2	PTHB	45,633
BRODOFF, BERNARD N	A STUDY OF STARVATION DIABETES IN THE SAND RAT	RO1AM 10675-03	NTN	30,584

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INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRG	DOLLARS
NEW YORK—(CON.)				
BROOKS, VERNON B	EXCITABILITY OF PYRAMIDAL TRACT CELLS	RO1NB 05508-05	PHY	47,880
BURMAN, SHELDON O	BEHAVIOR AND FATE OF HOMOTRANSPLANTED AORTIC VALVES	RO1HE 09393-02S1	IMB	6,690
COLERIDGE, JOHN C	VAGAL C-FIBERS FROM CARDIOPULMONARY RECEPTORS	RO1HE 11850-01	PHY	44,070
DANISHEFSKY, ISIDORE	CHEMISTRY OF BIOLOGICALLY IMPORTANT POLYSACCHARIDES	RO1HE 07514-06	PC	42,776
DEANE, NORMAN	TOTAL BODY UREA AND INTRACELLULAR UREA POOL IN UREMIA	RO1AM 09905-03	GMA	12,096
EAGLE, J FREDERICK	GENERAL RESEARCH SUPPORT GRANT	SO1FR 05398-07	NSS	397,940
FREED, SIMON	BIOCHEMISTRY AT LOW TEMPERATURES	RO1GM 16232-01	PC	62,968
FREUND, MATTHEW J	CHARACTERISTICS, METABOLISM, FERTILITY OF HUMAN SEMEN	RO1HD 00488-10	REB	18,407
FREUND, MATTHEW J	THE FREEZING AND STORAGE OF HUMAN SEMEN	RO1HO 00538-07	REB	12,798
FREUND, MATTHEW J	EFFECT OF X-IRRADIATION ON MALE FERTILITY	RO1HO 03466-09	REB	27,150
GALIN, MILES A	CEREBRAL CIRCULATION BY STUDY OF THE OCULAR PULSE	RO1NB 07162-02	NEUA	25,901
GELFAN, SAMUEL	FUNCTIONAL ORGANIZATION OF SPINAL CORD	RO1NB 04417-05	NEUA	46,254
GLASS, GEORGE B	GASTRIC SERUM MUCOPROTEINS INTRINSIC FACTOR B12 VITAMINS	RO1AM 00068-17	HEM	40,498
GLASS, GEORGE B	CHARACTERIZATION AND ORIGIN OF GASTRIC MACROMOLECULES	RO1AM 09701-03	GM	58,800
GLASS, GEORGE B	GASTRIC SECRETION IN GASTRIC CANCER AND PRECURSORS	RO1CA 08251-03	GM	27,093
GOLDSTEIN, ROBERT	PROTHROMBIN PROCONVERTIN AND PTC	RO1HE 06966-07	HEM	42,790
GUTSTEIN, WILLIAM H	RELATION OF ATHEROGENESIS TO LOCAL FLOW DISTURBANCE	RO1HE 11791-01	CVB	51,939
HAFT, DAVID E	ORIGINS OF MICROANGIOPATHY IN EXPERIMENTAL DIABETES	RO1AM 11964-02	MET	17,273
HAFT, DAVID E	INSULIN EFFECTS ON PROTEIN & FAT CATABOLISM IN LIVER	RO1AM 12285-01	MET	29,518
HOROWITZ, MARTIN I	IMMUNOCHEMISTRY OF SECRETORY MUCINS	RO1AM 05819-07	ALY	35,196
JAFFE, ISRAELI A	PENICILLAMINE IN RHEUMATOID ARTHRITIS AND SCLERODERMA	RO1AM 11586-02	GMA	44,864
KALEY, GABOR	MECHANISMS OF INFLAMMATION AND TISSUE INJURY	RO1HE 10078-02S1	PTHA	11,527
LANGE, KURT	IMMUNOLOGIC FACTORS IN CERTAIN RENAL DISEASES	RO1AM 10672-03	PTHA	44,500
LASKER, SIGMUND E	COMPARATIVE STUDY OF HEPARINS & SIMILAR POLYSACCHARIDES	RO1HE 11032-02	BBCB	24,662
LEHR, DAVID	THERAPY OF EXPERIMENTAL ARTERIOSCLEROSIS	RO1HE 00890-17	PTHA	76,450
LEV, ROBERT	HISTOCHEMISTRY OF EPITHELIAL MUCINS IN THE HUMAN FETUS	RO1HD 01666-03	PTHA	3,394
LEVINE, SEYMOUR	STUDY OF HYPERACUTE ALLERGIC ENCEPHALOMYELITIS	RO1NB 05727-03	IMB	25,318
LUHBY, A LEONARD	AMINO ACID METABOLISM IN FOLIC ACID DEFICIENCY	RO1AM 01778-10	NTN	27,878
LUHBY, A LEONARD	B12 & FOLIC ACID METABOLISM IN PREGNANCY & INFANCY	RO1HD 01162-11	NTN	54,235
MADDEN, ROBERT E	FACTORS AFFECTING BLOOD OR LYMPH BORN TUMOR CELL ARREST	RO1CA 07587-03S1	PTHB	7,302
MADDEN, ROBERT E	CORONARY REQUIREMENTS IN AORTIC VALVE DISEASE	RO1HE 05633-06	SGYA	49,493
MAUDE, DAVID L	FILTRATION RATE AND SODIUM TRANSPORT IN SINGLE NEPHRONS	RO1AM 09768-03	PHY	11,618
MOHOS, STEVEN C	MECHANISM OF INDUCED RENAL DISEASE	RO1AM 08432-05	PTHA	62,036
PARKER, FRANK S	INFARED AND ATR SPECTROSCOPY OF BIOLOGICAL MATERIALS	RO1NB 07625-02	BBCA	16,177
PIGMAN, WARD W	GROUND SUBSTANCE & PERMEABILITY OF CONNECTIVE TISSUE	RO1AM 04619-08	PC	116,644
REITH, EDWARD J	ULTRASTRUCTURE OF ENAMEL ORGAN	RO1DE 02274-05	DEN	13,196
RHODIN, JOHANNES A	ELECTRON MICROSCOPY OF KIDNEYS	RO1AM 09055-05	CBY	20,577
RHODIN, JOHANNES A	REACTIVITY OF MICROCIRCULATION	RO1HE 10924-02	CBY	50,357
ROSENTHAL, FRED	EXTRACELLULAR POTENTIAL FIELDS OF CORTICAL PT-NEURONS	RO1NB 05813-04	PHY	36,023
ROTHBALLER, ALAN B	CENTRAL NERVOUS SYSTEM CONTROL OF THE NEUROHYPHYSIS	RO1NB 06624-03	NEUA	20,110
ROTHENBERG, SHELDON P	KINETICS OF B12, INTRINSIC FACTOR, AND OTHER PROTEINS	RO1AM 06045-06S1	HEM	8,064
ROTHENBERG, SHELDON P	FOLATE REDUCTASE INDUCTION, SUPPRESSION, THERAPEUTICS	RO1CA 08976-02	PHRB	21,580
SCHILLER, SARA	METABOLISM OF MUCOPOLYSACCHARIDES IN CONNECTIVE TISSUE	RO1AM 07821-05	MET	49,029
SHULMAN, SIDNEY	BIOPHYSICAL STUDIES ON CERTAIN TISSUE PROTEINS	RO1AM 12694-01	ALY	8,512
STONE, MARTIN L	ADJUVANT UTERINE CANCER CHEMOTHERAPY	RO1CA 07413-05	SRC	5,511
STREBEL, RALPH F	MECHANISMS OF TISSUE CALCIFICATION IN AGING	RO1HD 02261-03	PTHA	52,335
TABACHNICK, MILTON	TRANSPORT OF THYROID HORMONES	RO1AM 05344-07	END	36,912
TAKETOMO, YASUHIKO	PILIAL EXCRETION OF TRACE ELEMENTS DURING EARLY GROWTH	RO1HD 03966-01	TOX	4,200
TERRIS, MILTON	EPIDEMIOLOGIC STUDY OF CARCINOMA OF THE CERVIX	RO1CA 08234-04	EDC	33,497
TERRIS, MILTON	RELATION OF ALCOHOL TO CANCER OF SELECTED SITES	RO1CA 08887-02	EDC	35,129
WEINSTEIN, SIDNEY	SENSORY AND PHYSIOLOGICAL CONCOMITANTS OF PHANTOMS	RO1NB 07404-02	NEUB	25,641
INSTITUTION TOTAL	54	2,121,528		
NEW YORK STATE DEPARTMENT OF M HY--MANHATTAN STATE HOSPITAL				
LAJTHA, ABEL	PROTEIN BREAKDOWN IN THE BRAIN	RO1NB 03226-08	PC	25,279
INSTITUTION TOTAL	1	25,279		
NEW YORK STATE DEPARTMENT OF M HY--NEW YORK STATE PSYCHIATRIC INSTITUTE				
ALEXANDER, GEORGE J	MODE OF ACTION OF CONVULSIVE AGENTS	RO1NB 06298-03	NEUB	18,306
GRAF, LISELOTTE	IMMUNOCHEMICAL STUDIES OF MALIGNANT TUMORS	RO1CA 10903-01	ALY	35,565
JARYIK, LISSY F	BEHAVIORAL AND CHROMOSOMAL CHANGES OF AGING	RO1HO 01615-03	DBR	71,641
KOLB, LAWRENCE C	GENERAL RESEARCH SUPPORT GRANT	SO1FR 05650-02	NSS	329,791
NEIDLE, AMOS	THE AMINE INCORPORATING SYSTEM TRANSGLUTAMINASE	RO1NB 00226-16	BIO	21,692
NEIDLE, AMOS	STUDIES ON THE METABOLISM OF BRAIN AND NERVE	RO1NB 00557-14	NEUB	17,420
RAPPORT, MAURICE M	CHEMISTRY AND FUNCTION OF BRAIN PLASMOLOGENS	RO1NB 08084-01	PC	33,276
RUTSCHMANN, JACQUES	CENTRAL BINOCULAR, BINAURAL, AND CROSSMODAL INTERACTION	RO1NB 06767-02	VIS	18,526
WEISS, BENJAMIN	THE CHEMISTRY AND BIOCHEMISTRY OF LONG-CHAIN BASES	RO1NB 06300-03	PC	29,725
INSTITUTION TOTAL	9	575,942		
NEW YORK STATE DEPARTMENT OF M HY--RESEARCH INSTITUTE FOR NEUROCHEMISTRY AND ADDICTION				
CHENG, SZE-CHUH	CO2 FIXATION IN THE NERVE	RO1NB 05869-02	NEUB	28,196
LAJTHA, ABEL	BRAIN BARRIER SYSTEM MECHANISMS FOR AMINO ACIDS	RO1NB 04360-06	PC	35,445
INSTITUTION TOTAL	2	63,641		

TABLE 2—RESEARCH GRANTS, BY AREA, INSTITUTION, AND PRINCIPAL INVESTIGATOR

INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRC	DOLLARS
NEW YORK—(CON.)				
NEW YORK STATE DEPARTMENT OF M HY--WILLOWBROOK STATE SCHOOL				
PENN, NATHAR W	EFFECT OF GROWTH ON BULK RNA AND A NEW RNA FRACTION	RO1NB 06734-02	MET	11,180
INSTITUTION TOTAL	1 11,180			
NEW YORK STATE UNIVERSITY OF-DOWNSTATE MEDICAL CENTER				
ADAMSONS, ROLAND J	CAUSES OF WOUND EDEMA AND ITS EFFECT ON HEALING	RO1AM 11141-02	SGYB	34,306
ANDERSON, HARRISON C	CARTILAGE AND BONE FORMATION INDUCED BY FL CELLS	RO1CA 10052-03	PTHB	14,726
BELFORD, JULIUS	GLYCOGEN SYNTHETASE ACTIVITY IN HEART MUSCLE	RO1HE 09580-03	PHRA	13,748
BERNHEIMER, HARRIET P	GENETIC CONTROL OF CAPSULE PRODUCTION IN PNEUMOCOCCUS	RO1AI 05173-06	MBC	33,823
BROOKS, CHANDLER M	NEUROPHYSIOLOGICAL STUDY OF NEUROENDOCRINE ACTIVITY	RO1NB 06537-02	NEUA	18,366
BROOKS, CHANDLER MC C	INTEGRATIVE PROCESSES IN THE HEART	RO1HE 10070-03	PHY	29,323
CARROLL, HUGH J	NORMAL & ABNORMAL MEMBRANE FUNCTION IN HUMAN PLATELETS	RO1AM 11309-02	GMB	27,721
CARTER, ANNE C	CELLULAR METABOLISM OF THYROID HORMONES	RO1AM 33655-09	END	32,859
CARTER, ANNE C	COOPERATIVE STUDY OF BREAST CANCER HORMONE THERAPY	R10CA 03358-11A1	SRC	73,719
CARTY, ROBERT P	BIFUNCTIONAL CHEMICAL MODIFICATION OF RIBONUCLEASE A	RO1GM 14573-02	BIO	21,450
CHESLEY, LEON C	BODY FLUIDS IN NORMAL AND TOXIC PREGNANCY	RO1HD 00263-13	HED	2,349
COOK, ALBERT W	COOPERATIVE STUDY OF ANEURYSMS & SUBARACHNOID HEMORRHAGE	RO1NB 04937-05	SSS	27,492
CRAIG, JOHN P	STUDIES ON CHOLERA TOXIN	RO1AI 06815-03	ALY	21,351
DEBONS, ALBERT F	HYPOTHALAMIC REGULATION OF FOOD INTAKE	RO1AM 12479-01	MET	24,086
DENNIS, CLARENCE	SMALL BOWEL INJURY AS A FACTOR IN THE DUMPING SYNDROME	RO1AM 09546-03	SGYB	49,740
DENNIS, CLARENCE	PUMP-OXYGENATOR METHODS, PHYSIOLOGICAL EFFECTS AND USE	RO1HE 01011-17	SGYB	49,892
DENNIS, CLARENCE	SURGICAL APPROACH TO ACUTE CORONARY THROMBOSIS	RO1HE 07028-07	SGYB	61,229
DETWILER, THOMAS C	ENERGY METABOLISM IN BLOOD PLATELETS	RO1HE 10099-03	HEM	12,567
DORNFEST, BURTON S	PHYSIOLOGICAL STUDIES OF ERYTHROPOIETIN	RO1AM 09321-04	HEM	20,794
DREIZEN, PAUL	PHYSICAL CHEMISTRY OF PROTEINS	RO1AM 06165-05	BBC	23,021
EMMANUEL, GEORGE E	MECHANISMS OF ALVEOLAR COLLAPSE IN THE HUMAN LUNG	RO1HE 11840-01	CVB	34,876
FEINSTEIN, MAURICE B	STUDIES ON MECHANISM OF ACTION OF ANESTHETICS	RO1GM 14299-02	PHRA	15,175
FELDMAN, DANIEL S	NEUROMUSCULAR ACETYLCHOLINE FORMATION AND RELEASE	RO1NB 07004-03	NEUB	23,134
FELDMAN, ELAINE B	STEROL SOLUBILIZATION AND INTESTINAL ABSORPTION	RO1HE 10742-02	MET	30,036
FIKRIC, SENIH	DEVELOPMENT OF AUTO-IMMUNE DISEASE	RO1AM 10710-02	IMB	18,583
FITZGERALD, PATRICK J	PANCREATIC REGENERATION AFTER RESECTION	RO1AM 05556-07	PTHB	45,558
FITZGERALD, PATRICK J	ULTRASTRUCTURAL PATHOLOGY	RO1CA 06081-07	PTHB	96,785
FORD, DONALD H	NEUROENDOCRINE INTER-RELATIONSHIPS	RO1NB 04568-05	NEUA	20,576
FURCHGOTT, ROBERT F	FACTORS INFLUENCING RESPONSES TO ADRENERGIC DRUGS	RO1HE 05237-09	PHRA	31,584
GARDNER, BERNARD	INDUCED OSTEOLYSIS AND INCIDENCE OF BONE METASTASES	RO1CA 08299-03	PTHB	15,856
GARDNER, BERNARD	COLLAGENOLYTIC ACTIVITY AND METASTASES OF TUMORS	RO1CA 10084-02	PTHB	15,373
GERBER, DONALD A	METABOLIC ABNORMALITIES IN RHEUMATOID ARTHRITIS	RO1AM 10370-03	GM	23,755
GHADIMI, HOSSEIN	BIOCHEMICAL CAUSES OF MENTAL RETARDATION	RO1HD 02152-03	PPR	67,923
HELLMAN, LOUIS M	STUDY OF FETAL GROWTH AND DEVELOPMENT BY SONAR	RO1HD 01801-03	SSS	6,863
HERBSMAN, HORACE	FRACTURE HEALING IN EXPERIMENTAL DIABETES	RO1AM 08457-04	SGYB	22,056
HERMAN, PETER G	BLOOD MICROCIRCULATION IN THE LYMPH NODE	RO1HE 11214-02	RAD	25,369
HILL, JOSEPH K	GENERAL CLINICAL RESEARCH CENTER, ADULT - CHILDREN	MO1FR 00318-02	CLR	179,182
HILL, JOSEPH K	GENERAL RESEARCH SUPPORT GRANT	SO1FR 05401-07	NSS	309,206
HIRSCHMAN, ALBERT	MUCOPOLYSACCHARIDES IN CARTILAGES AND BONE	RO1AM 05922-07	PTHA	11,427
JOSEPHSON, ALAN S	COMPOSITION OF SECRETIONS IN CHRONIC PULMONARY DISEASE	RO1AI 07971-02	IMB	20,147
JOSEPHSON, ALAN S	IMMUNOLOGIC EFFECTS OF THE NITRO-OLEFINS	RO1AI 08218-02	IMB	23,694
KAHAN, STUART A	MONOSYNAPTIC REFLEX DISCHARGE IN SPINAL CORD	RO1NB 07444-01	NEUB	17,177
KAO, CHIEN-YUAN	GENETIC MODIFICATION OF REPRODUCTIVE CAPACITY	RO1HD 00378-10S1	PHY	3,760
KAO, CHIEN-YUAN	BIOELECTRIC PROPERTIES OF UTERINE SMOOTH MUSCLE	RO1HD 00378-11	PHY	32,489
KAO, FREDERICK F	REGULATION OF RESPIRATION AT REST AND DURING EXERCISE	RO1HE 04032-15	PHY	19,951
KARLSON, KARL E	STUDIES OF THE WORK OF BREATHING	RO1GM 06343-10	SGYB	17,520
KARLSON, KARL E	LUNG PRESERVATION FOR TRANSPLANTATION	RO1HE 09114-03S1	SGYA	1,436
KAVALER, FREDERIC	EXCITATION-CONTRACTION COUPLING IN CARDIAC MUSCLE	RO1HE 05142-08S1	PHY	4,125
KESNER, LEO	OROTIC ACID METABOLISM	RO1AM 09820-03	MET	12,157
KNAPP, HARRIET D	EVOLUTION OF VISUAL SYSTEM	RO1NB 06426-03	VIS	10,978
KOIZUMI, KIYOMI	MECHANISM OF FUNCTION OF HIGHER INTEGRATIVE CENTERS	RO1NB 00847-13	NEUA	20,452
KUCHINSKAS, EDWARD J	METABOLIC EFFECTS OF CYSTEINE ANALOGS	RO1AM 02478-10	PC	13,260
LEE, KWANG S	MECHANISM OF THE ACTION OF CARDIAC GLYCOSIDES	RO1HE 02875-12	PHRA	26,076
LEE, KWANG SOO	EXCITATION-CONTRACTION COUPLING AND HEART FAILURE	RO1HE 10323-03	PHY	30,454
LEVERE, RICHARD D	CONTROL MECHANISMS IN HEME SYNTHESIS	RO1AM 09838-03	HEM	27,211
LYONS, HAROLD A	HEMODYNAMICS AND CAPILLARY BLOOD VOLUME IN ASTHMA	RO1HE 11932-01	CVB	30,541
MOSESSON, MICHAEL W	THE HETEROGENEITY OF FIBRINOGEN	RO1HE 11409-01	HEM	35,258
MUNTWYLER, EDWARD	FREE AMINO ACIDS CONTENT OF CERTAIN TISSUES	RO1AM 09107-19	NTN	8,993
NEIMARK, HAROLD C	CHARACTERIZATION OF PPO AND BACTERIAL L FORMS	RO1AI 06871-03	BM	19,412
RIEDER, RONALD F	PROTEIN SYNTHESIS IN ERYTHROID PRECURSORS	RO1AM 12401-01	HEM	25,058
RIEDER, RONALD F	PROTEIN SYNTHESIS IN ERYTHROID PRECURSORS	RO1AM 12401-02	HEM	33,834
RISS, WALTER	EVOLUTION OF THE LIMBIC SYSTEM	RO1NB 04603-05	NEUA	29,137
ROBINSON, MARGARET G	SUSCEPTIBILITY TO INFECTION IN SICKLE CELL ANEMIA	RO1HD 02472-02	BM	26,586
RUBIN, RONALD P	THE ACTION OF CALCIUM ON SECRETION	RO1AM 09237-04	PHRA	19,338
SAWYER, PHILIP N	ELECTROCHEMISTRY OF THE BLOOD VESSEL WALL	RO1HE 07371-06	CVB	35,693
SAWYER, PHILIP N	DESIGN OF AN IMPROVED VASCULAR INTERFACE	RO1HE 10795-02	SGYA	33,449
SCALIA, FRANK R	DLFACTORY PATHWAYS	RO1NB 06577-03	NEUB	11,998

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INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRG	DOLLARS
NEW YORK—(CON.)				
SCHWARTZ, BERNARD	METABOLISM OF LENS CULTURED IN A PERFUSION SYSTEM	RO1NB 01820-10	VIS	38,927
SCHWARTZ, BERNARD	THE RESPONSE OF OCULAR PRESSURE TO CORTICOSTEROIDS	RO1NB 05224-05	VIS	28,423
SHAFTAN, GERALD W	FACTORS IN SPONTANEOUS CONTROL OF ARTERIAL HEMORRHAGE	RO1HE 08831-05	SGYB	30,919
SILER, WILLIAM M	BIOMATHEMATICAL COMPUTER RESEARCH CENTER	P07FR 00291-03	COM	150,222
SILVERSTEIN, EMANUEL	ENZYME MECHANISM AND MOLECULAR GENETICS	RO1AM 09273-03S1	BIO	11,137
SPRARAGEN, SANFORD C	ORIGIN OF FOAM CELLS ATHEROMATOUS LESIONS	RO1HE 08758-05	PTHA	10,444
STRACHER, ALFRED	STRUCTURAL STUDIES ON MYOSIN	RO1GM 07076-09	BIO	51,900
STUCKEY, JACKSON H	CARDIAC CONDUCTION AND CARDIAC CONTRACTION	RO1HE 04801-09	CVB	51,981
SULTZER, BARNET M	VARIATION OF LEUCOCYTE RESPONSES TO ENDOTOXIN	RO1AI 07816-02	ALY	16,691
TALBERT, GEORGE B	EFFECT OF MATERNAL AGE ON REPRODUCTIVE CAPACITY	RO1HD 02014-03	HED	10,198
THRON, C DENNIS	CHOLINERGIC AND ADRENERGIC RECEPTOR MECHANISMS	RO1NB 06902-02	PHRA	19,154
TROUTMAN, RICHARD C	THE USE OF ACRYLICS IN EYES	RO1NB 02861-07S1	SSS	2,629
TROUTMAN, RICHARD C	THE USE OF ACRYLICS IN EYES	RO1NB 02861-08	SSS	32,128
VASSALLE, MARIO	POTASSIUM FLUXES IN CARDIAC PURKINJE FIBERS	RO1HE 10097-02S1	PHY	953
VASTOLA, EDWARD F	GENICULATE INFLUENCES ON CORTICAL EXCITABILITY	RO1NB 07418-01	NEUA	29,021
WALLACH, STANLEY	METABOLIC AND ENDOCRINE FACTORS IN MG TRANSPORT	RO1AM 08453-04	GMB	30,228
WITKIN, EVELYN M	INDUCED MUTATIONS IN BACTERIA	RO1AI 01240-12	GEN	39,691
WYNN, RALPH M	ULTRASTRUCTURE OF THE PLACENTAL JUNCTIONAL ZONE	RO1HD 00018-04	HED	20,813
YASUMURA, SEIICHI	NEURAL CONTROL OF PITUITARY TSH SECRETION	RO1AM 09046-04	ENO	16,526
INSTITUTION TOTAL	86	2,768,048		
NEW YORK UNIVERSITY				
AL-ASKARI, SALAH	CHARACTERIZATION OF HOMOGRAFT REACTIONS	RO1AI 06502-04	IMB	33,242
ALTSZULER, NORMAN	HORMONAL REGULATION OF METABOLISM	RO1AM 10188-03	END	77,751
AULL, FELICE B	ELECTRICAL PROPERTIES OF THE ASCITES TUMOR CELL	RO1CA 10625-01	PHY	26,944
AYVAZIAN, JOHN H	DNAASE IN THE STUDY OF STAPHYLOCOCCAL DISEASES	RO1AI 02757-10	MET	18,066
BALLANTYNE, DONALD L, JR	SOFT TISSUE RESPONSE TO DIMETHYLPOLYSILOXANE	RO1GM 11426-04	PTHA	26,485
BANK, NORMAN	FACTORS GOVERNING THE RENAL EXCRETION OF ACID	RO1HE 05770-08	PHY	29,833
BARKER, JUNE N	PERINATAL VASCULAR CAUSES OF NEONATAL ATELECTASIS	RO1HD 02406-02	HED	27,004
BARKSDALE, LANE	CORYNEBACTERIUM DIPHTHERIAE AND ITS VIRUSES	RO1AI 01071-12	MBC	69,265
BARKSDALE, LANE	MORPHOLOGICAL MUTANTS OF THE MYCOBACTERIACEAE	RO1AI 08321-01	BM	41,104
BAUM, JULES I	CORNEAL RESEARCH CLINIC	P15NB 06840-03	NBPB	10,519
BAUM, JULES I	ORIGIN OF THE FIBROBLAST IN CORNEAL WOUND HEALING	RO1NB 06748-02	VIS	22,847
BENACERRAF, BARUJ	RETICULOENDOTHELIAL SYSTEM - IMMUNOLOGICAL SPECIFICITY	RO1AI 02094-10	PTHB	56,655
BENACERRAF, BARUJ	PROPERTIES OF PURIFIED GUINEA PIG 7S ANTIBODIES	RO1AI 04983-06	ALY	47,640
BENNETT, LEON	BLOOD FLOW SLIP PHENOMENA	RO1HE 09726-02S1	CVA	10,344
BERGER, EUGENE Y	ANESTHETIC GASES AND WATER STRUCTURE	RO1GM 15568-01	NEUB	40,020
BERNHEIMER, ALAN W	STAPHYLOCOCCAL AND STREPTOCOCCAL PROTEINS	RO1AI 02874-09	BM	50,177
BITENSKY, MARK W	ADENYLIC CYCLASE AND SPECIFIC ACTIVATING HORMONES	RO1AM 10143-03	BIO	17,950
BLECHMAN, HARRY	GENERAL RESEARCH SUPPORT GRANT	SO1FR 05332-07	NSS	106,164
BREININ, GOODWIN M	ELECTROPHYSIOLOGY OF THE OCULOMOTOR SYSTEM	RO1NB 00911-13	VIS	65,720
BREININ, GOODWIN M	STUDIES IN ACCOMMODATION AND CONVERGENCE	RO1NB 01325-11	VIS	38,312
BREININ, GOODWIN M	ELECTRON MICROSCOPY OF OCULAR MUSCLE	RO1NB 06152-03	VIS	29,028
BRODY, SEYMOUR S	USE OF MONOLAYERS TO SIMULATE IN VIVO REACTIONS	RO1GM 14747-02	BBCA	56,144
BROOME, JOHN D	ASPARAGINASE SENSITIVITY IN TUMOR CELLS	RO1CA 08045-04	PTHB	29,454
BRUNELL, PHILIP A	STUDIES ON VARICELLA-ZOSTER VIRUS	RO1AI 06880-03	VR	17,781
CAMPBELL, JAMES B	LABORATORY APPROACHES TO CERTAIN NEURAL DEFICITS	PO1NB 04257-06	NBP	200,000
CASTROVIEJO, RAMON	SUPPRESSION OF THE IMMUNE RESPONSE IN KERATOPLASTY	RO1NB 05531-03S1	IMB	7,006
CASTROVIEJO, RAMON	SUPPRESSION OF THE IMMUNE RESPONSE IN KERATOPLASTY	RO1NB 05531-04	IMB	25,114
CHAMBERS, ROBERT W	NUCLEIC ACID CHEMISTRY	RO1GM 07262-09	PC	45,028
CHASIS, HERBERT	RENAL GENESIS OF HUMAN HYPERTENSION	RO1HE 03272-11	CV	61,490
COHLAN, SIDNEY Q	VITAMINS AND CONGENITAL MALFORMATIONS	RO1HD 00187-15	HED	22,500
COLIN, LAURENCE	STRESS CONCENTRATIONS IN DENTAL STRUCTURES	RO1DH 00102-03	DEN	20,459
CONVERSE, JOHN M	SURGICAL REPAIR OF CLEFT PALATE	RO1DE 02514-03	SSS	22,646
COOPER, NORMAN S	STUDY OF MALIGNANT PLASMACYTOMA IN VITRO	RO1CA 08986-02	PTHB	22,328
COX, RODY P	REGULATION AND FUNCTION OF ALKALINE PHOSPHATASE	RO1GM 15508-01	MBY	35,663
DALY, JOHN F	CORRELATION OF INNER EAR PATHOLOGY AND FUNCTION	RO1NB 01832-10	CMS	28,647
DALY, JOHN F	QUANTITATIVE STUDY OF VESTIBULAR FUNCTION IN MAN	RO1NB 01833-10	CMS	13,446
DALY, JOHN F	MEASUREMENT OF HEARING BY OPERANT METHODS	RO1NB 02484-08S1	CMS	21,766
DANCIS, JOSEPH	PHYSIOLOGY OF THE PLACENTA	RO1HD 00462-14	HED	27,633
DEMPOPOULOS, HARRY B	SUBCELLULAR & MOLECULAR PATHOLOGY OF MALIGNANT MELANOMA	RO1CA 10807-01	PTHB	56,599
DEUTSCH, MARTIN	LOWER SES CHILD REARING & COGNITIVE DIFFERENTIATION	RO1HD 02804-02	PCR	68,165
DRUCKER, WILLIAM D	GLUCURONIC ACID CONJUGATION OF HORMONES	RO1AM 08423-05	END	18,479
DUMONT, ALLAN E	CHANGES IN THORACIC DUCT CHYLE EFFECTED BY PANCREAS	RO1AM 02785-10	SGYA	21,010
ELSBACH, PETER	LIPID TRANSPORT INTO CELLS	RO1AM 05472-07	MET	28,511
ENTNER, NATHAN	BIOCHEMISTRY AND GENETICS OF PARASITES	RO1AI 01861-11	TMP	43,881
ENTNER, NATHAN	ADAPTIVE RESPONSE OF TRYPANOSOMA LEWISI TO ITS HOST	RO1AI 04540-07	TMP	17,762
FARBER, SAUL J	ELECTROLYTES AND MUCOPOLYSACCHARIDES IN CARDIAC DISEASE	RO1HE 01270-16	CVA	31,056
FELLNER, MICHAEL J	DELAYED HYPERSENSITIVITY TO PENICILLIN	RO1AI 07728-02	IMB	35,735
FISHMAN, LOUIS	EFFECTS OF VITAMIN K ON THE BIOSYNTHESIS OF PROTHROMBIN	RO1AM 09873-04	HEM	24,663
FOX, ARTHUR C	ALTERATIONS IN CARDIAC NUCLEOTIDE METABOLISM	RO1HE 03312-11	PC	24,423
FRANKLIN, EDWARD C	STUDIES OF RHEUMATOID FACTORS AND ANTIBODIES	RO1AM 02594-10	ALY	38,762
FRIEDMAN-KIEN, ALVIN E	VIRUS-CELL RELATIONSHIPS IN BENIGN HUMAN SKIN TUMORS	RO1CA 10468-01	VR	52,202

TABLE 2—RESEARCH GRANTS, BY AREA, INSTITUTION, AND PRINCIPAL INVESTIGATOR

INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRG	DOLLARS
NEW YORK—(CON.)				
CALDSTON, MORTON	LUNG SURFACTANT AGING - EMPHYSEMA, INFECTION	RO1HE 05256-08A1	CVA	34,757
GERSHBERG, HERBERT	PARATHYROID-GH ESTROGEN CARBOHYDRATE METABOLISM	RO1AM 10632-02	ENO	38,708
GERSTNER, ROBERT	SALIVARY GLANDS MATURATION ENDOCRINE RELATIONSHIPS	RO1OE 02315-02	DEN	25,694
GESNER, BERTRAM M	FACTORS EFFECTING THE FATE OF LYMPHOCYTES	RO1HE 09239-04	HEM	34,868
GOLDSTEIN, MENEK	ANATOMICAL AND CHEMICAL CHANGES FOLLOWING BRAIN LESIONS	RO1NB 06801-02	NEUB	17,009
GOODMAN, GEORGE	ERG AND PSYCHOPHYSICAL STUDIES IN RETINAL DISORDERS	RO1NB 02589-09	VIS	23,976
GORDON, ALBERT S	HUMORAL CONTROL OF BLOOD CELL FORMATION AND RELEASE	RO1HE 03357-11	HEM	152,542
GORDON, EDWIN E	PATHWAYS OF CARBOHYDRATE METABOLISM	RO1AM 12404-01	MET	21,960
GRANT, LESTER H	IN VIVO STUDIES OF INFLAMMATORY MECHANISMS	RO1AM 07501-06	PTHA	29,483
GREEN, GEORGE E	INTERNAL MAMMARY-DISTAL CORONARY ANASTOMOSIS	RO1HE 11086-02	SGYB	11,680
GREEN, HOWARD	GROWTH AND DIFFERENTIATED FUNCTION IN MAMMALIAN CELLS	RO1CA 06793-06	PTHB	98,405
GROB, HOWARD S	STUDIES OF THE ISOLATED, INTACT OVARIAN FOLLICLE	RO1HD 01541-04	REB	18,593
GROSSMAN, ALBERT	REGULATION OF INDUCED ENZYME INACTIVATION	RO1GM 13728-03	MET	17,034
HARBER, LEONARD C	PHOTOSENSITIVITY ENVIRONMENTAL AND OTHER FACTORS	RO1ES 00288-04	GMA	53,713
HASS, WILLIAM K	EXTRACRANIAL ARTERIAL OCCLUSION - JOINT STUDY	RO1HE 07018-07	SRC	62,897
HENKIND, PAUL	RETINAL PATHOLOGY	RO1NB 05059-05	VIS	56,495
HOCHWALD, GERALD M	SPINAL FLUID PROTEINS AND BLOOD CSF BARRIER	RO1NB 05024-04A1	NEUB	37,800
HOFFMAN, HEINER	CYTOLOGY OF FUSOBACTERIAL COLONY FORMATION	RO1DE 01462-06S1	BM	18,000
HOLT, L EMMETT, JR	CHEMICAL STUDY OF CONGENITAL MENTAL DEFECTS	RO1HD 00198-10	MET	33,192
HOLT, L EMMETT, JR	EFFECT OF PROTEIN INTAKE ON THE PREMATURE INFANT	RO1HD 02064-03	NTN	33,750
HOLT, L EMMETT, JR	AMINO ACID INTERRELATIONSHIPS	RO1HD 02561-08	NTN	36,038
HRUZA, ZDENEK	AGING MECHANISMS IN CONNECTIVE TISSUE AND VESSELS	RO1HD 03236-01	PTHA	44,392
JAHIEL, RENE I	INSECT CELL CULTURE	RO1AI 08329-01	TMP	40,271
JANOFF, AARON	LYSOSOMES IN SHOCK AND TISSUE INJURY	RO1HE 08192-05	PTHA	17,885
JAVID, JAMSHID	BIOCHEMICAL GENETICS OF HUMAN SERUM HAPToglobINS	RO1HE 10487-02	GEN	18,512
JOHNSON, ALAN J	THROMBOLYSIS AND PROTEOLYSIS IN MAN	RO1HE 05003-09	HEM	87,722
KAPLAN, IRA T	OCULAR MOVEMENT DURING VISUAL FORM PERCEPTION	RO1NB 07618-05	VIS	13,468
KATZ, PHYLLIS A	EFFECTS OF LABELS ON PERCEPTION	RO1HD 02672-02	EPR	23,319
KAUFMAN, EDWARD G	NEW BASE METAL ALLOYS AND THEIR CLINICAL BEHAVIOR	RO1DH 00111-02	GEN	48,927
KRUGMAN, SAUL	GENERAL CLINICAL RESEARCH CENTER	MO1FR 00096-08	CLR	510,015
KRUGMAN, SAUL	THE NATURAL HISTORY AND PREVENTION OF RUBELLA	RO1AI 07578-02	VR	61,669
KUPFERMANN, IRVING E	BEHAVIORAL AND NEURAL ANALYSIS OF LEARNING	RO1NB 07621-03	NP	24,660
KUSCHNER, MARVIN	CARCINOGENESIS IN TRACHEAL ORGAN CULTURES	RO1CA 10634-01	PTHB	24,862
LA DU, BERT N, JR	TYROSINE METABOLISM STUDIES	RO1AM 07663-05	MET	46,227
LA DU, BERT N, JR	A PHARMACOGENETIC STUDY ON DRUG ESTERASES	RO1AM 08577-04	PHRA	51,550
LAMM, MICHAEL E	ANTIGENIC CHANGES IN MOUSE LEUKEMOGENESIS	RO1CA 08627-03	IMB	17,757
LANE, M DANIEL	APOCARBOXYLASE ACTIVATION BY D-BIOTIN	RO1AM 09116-04	BIO	18,695
LANE, M DANIEL	INVESTIGATION OF PHOSPHOENOLPYRUVATE CARBOXYLASES	RO1AM 09117-04	BIO	46,988
LAWRENCE, H S	DELAYED BACTERIAL ALLERGY - NATURE OF TRANSFER FACTOR	RO1AI 01254-12	ALY	47,494
LESSER, GERSON T	RELATION OF AGE CHANGES WITHIN CELL MASS TO METABOLISM	RO1HD 00639-05	NTN	42,708
LEVENE, RALPH Z	FLUOROPHOTOMETRY AND AQUEOUS FLOW	RO1NB 07511-01	VIS	18,206
LEVITZ, MORTIMER	14C ESTROGEN METABOLISM IN PREGNANT AND CANCEROUS WOMEN	RO1CA 02071-15	REB	47,471
LEVY, HARVEY M	THE SYNTOMIC AND CONTRACTILE PROPERTIES OF ACTOMYOSIN	RO1GM 06276-10	BIO	17,668
LEVY, MILTON	STRUCTURE AND FUNCTION OF COLLAGEN	RO1AM 10940-02	PC	47,107
LIEBMAN, FREDERICK M	MUSCLE ACTIVITY AND JAW GROWTH AND DEVELOPMENT	RO1DE 01044-09	DEN	31,868
LIPKIN, GEORGE	TRANSFORMATION OF BENIGN AND MALIGNANT MELANOMAS	RO1CA 10214-01	PTHB	29,472
LITTMAN, MAXWELL L	EFFECT OF VITAMINS AND ANTIMETABOLITES ON ANIMAL TUMORS	RO1CA 08861-02S2	PHRB	28,545
MAAS, WERNER K	REGULATION OF ENZYME SYNTHESIS IN BACTERIA	RO1GM 06048-10	BIO	50,836
MAINLAND, DONALD	COOPERATIVE STUDIES IN RHEUMATOID ARTHRITIS	RO1AM 03252-08	SSS	133,949
MARSH, DONALD J	RENAL COUNTERCURRENT SYSTEM	RO1AM 06864-06	PHY	15,812
MARSLAND, DOUGLAS	STUDIES ON CELL DIVISION AND RELATED PROCESSES	RO1HD 15893-20	CBY	16,598
MAY, CHARLES D	BIOCHEMICAL ASPECTS OF ALLERGIC DISORDERS	RO1HD 01892-04	IMB	17,120
MAYER, DONALD J	ENHANCEMENT AFTER ADMINISTRATION OF DONOR LYMPHOCYTES	RO1AI 06865-03	IMB	11,860
MC CLUSKEY, ROBERT T	HEMOLYTIC STREPTOCOCCI AND HYPERSENSITIVITY	RO1AI 01697-10S1	PTHA	15,615
MC CLUSKEY, ROBERT T	PATHOGENESIS OF GLOMERULAR DISEASES	RO1AI 01697-11	PTHB	5,195
MC EWEN, CURRIER	NEW YORK UNIVERSITY RHEUMATIC DISEASES STUDY GROUP	PO1AM 01431-12	AMP	222,656
MC FALL, ELIZABETH	STUDIES ON CONTROL MECHANISMS IN ENZYME BIOSYNTHESIS	RO1GM 11899-05	MBC	27,552
MC NELIS, EDWARD J	MODELS FOR THYROXINE BIOSYNTHESIS	RO1AM 12615-01	MCHA	10,930
MENDELSON, MARTIN	MECHANISMS OF VENTILATORY CONTROL	RO1NB 04588-06	PHY	19,026
MIESCHER, PETER A	STUDIES ON MECHANISMS OF IMMUNOPATHOLOGY	RO1AM 03777-09	IMB	29,890
MIESCHER, PETER A	MECHANISM OF TISSUE DAMAGE IN AUTO-IMMUNE DISORDERS	RO1AM 04819-08	IMB	15,279
MILLER, FREDERICK	A STUDY OF THE GLYCOPROTEINS OF IMMUNOGLOBULINS	RO1CA 10637-01	ALY	20,634
MOOR-JANKOWSKI, J	MAINTENANCE OF A PRIMATE ANIMAL RESEARCH RESOURCE	PO6FR 00316-03	SSS	58,070
MUNROE, J SPENCER	ONCOGENESIS IN PRIMATES	RO1CA 10891-01	VR	102,540
MUSACCHIO, JOSE M	REGULATION OF CATECHOLAMINE BIOSYNTHESIS	RO1HE 10333-03	PHRA	29,088
NELSON, NORTON	RESEARCH IN ENVIRONMENTAL HEALTH AND CANCER	P10ES 00260-05	SSS	655,636
NELSON, NORTON	RESEARCH IN THE ENVIRONMENTAL HEALTH SCIENCES	P10ES 00260-06	SSS	269,240
NUSSENZWEIG, VICTOR	ANTIBODY STRUCTURE AND SPECIFICITY	RO1AI 08499-01	ALY	40,843
OCHOA, SEVERO	ENZYMIC MECHANISMS IN BIOSYNTHESIS	PO1AM 01845-11	PC	121,844
OVARY, ZOLTAN	IMMUNOLOGICAL MECHANISM OF ANAPHYLAXIS	RO1AI 03075-09	ALY	61,667
PENTEL, LEON	TRACE ELEMENT RADIOISOTOPES IN DENTAL TISSUES	RO1DE 01847-05	DEN	34,018
PENTEL, LEON	LOW LEVEL X-IRRADIATED AND DENTOGENESIS	RO1DH 00104-02	DEN	56,662
PERL, WILLIAM	HEAT AND MATTER KINETICS AND LOCAL TISSUE BLOOD FLOW	RO1HE 07482-06	CVA	24,719

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INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRG	DOLLARS
NEW YORK—(CON.)				
PHILLIPS, MILORED E	HUMORAL AND CELL-BOUND ANTIBODY IN HOMOGRAFTS	RO1CA 07863-04	IMB	18,442
PICK, JOSEPH	ELECTRON MICROSCOPY OF SYMPATHETIC NEURONS	RO1NB 01879-09S1	CBY	9,466
PIOMELLI, SERGIO	THE MECHANISM OF RED CELL AGING	RO1AM 09274-04	HEM	35,263
POST, JOSEPH	LIVER RESPONSE TO INJURY RELATION TO CARCINOGENESIS	RO1CA 03917-10	PTHB	19,318
POTTER, JACOBUS L	FATE OF TISSUE ENZYMES RELEASED INTO THE CIRCULATION	RO1AM 09723-03	PTHB	14,339
RANSOHOFF, JOSEPH	ESTABLISHMENT OF A HEAD INJURY PROGRAM	PO2NB 07366-01A1	NBPA	106,209
RANSOHOFF, JOSEPH	BIOMEDICAL COMPUTING FACILITY	PO7FR 00331-02	COM	144,228
RANSOHOFF, JOSEPH	STEROLS IN PRIMARY MALIGNANT BRAIN TUMORS	RO1CA 10887-01	PHRB	34,915
RANSOHOFF, JOSEPH	COMPARATIVE TREATMENT STUDY OF CEREBRAL ANEURYSMS	RO1NB 04343-05S1	SSS	1,569
RANSOHOFF, JOSEPH	COMPARATIVE TREATMENT STUDY OF CEREBRAL ANEURYSMS	RO1NB 04343-06	SSS	28,966
RANSOHOFF, JOSEPH	A VOLUME CONTROL SYSTEM FOR HYDROCEPHALUS	RO1NB 06599-03	NEUA	27,053
RAPAPORT, FELIX T	SEVERE BURNS - MECHANISMS OF CELL DAMAGE	RO1GM 12748-04	SGYA	44,418
RIPPS, HARRIS	STUDY OF VISUAL PIGMENTS IN SITU	RO1NB 05487-04	VIS	42,380
ROBINSON, WILLIAM G	ENZYMATIC REDUCTION OF RIBONUCLEOTIDES	RO1AM 10705-03	PC	15,678
ROLLE, GLORIA K	A STUDY OF CALCIFICATION OF TEETH AND BONES	RO1DE 00473-12	DEN	12,097
ROSENBLUTH, JACK	ULTRASTRUCTURE OF DEVELOPING NERVOUS TISSUE	RO1NB 07197-02	CBY	26,043
ROSENBLUTH, JACK	COMPARATIVE CYTOLOGY OF NERVE AND MUSCLE TISSUES	RO1NB 07495-01	CBY	87,181
ROTH, SIDNEY G	BIOMEDICAL SCIENCES SUPPORT	SO5FR 07062-03	NSS	80,699
ROTHFIELD, NAOMI F	ISOLATION AND CHARACTERIZATION OF AN UNUSUAL ANTIBODY	RO1AI 06853-03	ALY	21,031
ROTHSCHILD, MARCUS A	FACTORS REGULATING PROTEIN METABOLISM	RO1AM 02489-10	MET	31,675
RUBEN, ROBERT J	EMBRYOLOGY OF THE INNER EAR	RO1NB 06428-02	CMS	28,341
SCHAEFLER, SAM	GENETICS OF B-GLUCOSIDES UTILISATION IN BACTERIA	RO1AI 07796-02	GEN	8,100
SCHREIBER, SIDNEY S	TRANSPORT, PROTEIN & RNA SYNTHESIS IN HEART FAILURE	RO1HE 09562-03	CVB	28,154
SCHUBERT, MAXWELL	CHEMISTRY OF COMPONENTS OF CONNECTIVE TISSUE	RO1AM 00028-17	PC	42,211
SCHUBERT, MAXWELL	STUDIES OF BONE MATRIX DURING DISUSE	RO1AM 04396-08	MET	12,437
SECHZER, JERI A	VISUAL LEARNING AND MEMORY	RO1NB 07387-02	VIS	15,453
SEIDMAN, IRVING	METABOLIC REGULATION BY THYROXINE	RO1CA 08134-03	MET	16,006
SHAMOS, MORRIS H	PHYSICAL PROPERTIES OF MINERALIZED TISSUES	PO1DE 02189-04	DEP	211,384
SHAPIRO, ARNOLD L	GROWTH AND SYNTHESIS IN CULTURED LENS CELLS	RO1NB 06743-02	MBY	19,652
SHAPIRO, ROBERT	NEW AGENTS FOR CHEMICAL MUTAGENESIS	RO1GM 11437-05	BIO	34,299
SILBER, ROBERT	TOCOPHEROL METABOLISM IN THE HUMAN ERYTHROCYTE	RO1AM 10860-02	HEM	11,368
SILBER, ROBERT	ENZYME STUDIES IN EXPERIMENTAL LEUKEMIA	RO1CA 06657-06	BIO	27,428
SILBERBERG, INGA	ABSORPTION OF MERCURY THROUGH THE EPIDERMIS IN MAN	RO1ES 00308-01	GMA	23,755
SISKIND, GREGORY W	STUDIES ON IMMUNOLOGICAL UNRESPONSIVENESS	RO1AM 08805-04	ROB	32,737
SMIRNOW, ROBERT	DIAGNOSTIC ULTRASONICS IN DENTISTRY	RO1DE 02141-02S1	SSS	204
SMIRNOW, ROBERT	DIAGNOSTIC ULTRASONICS IN DENTISTRY	RO1DE 02141-03	SSS	25,268
SNYDERMAN, SELMA E	AMINO ACID REQUIREMENTS OF PREMATURE INFANTS	RO1HO 02760-02	NTN	53,088
SPENCER, FRANK C	ASSISTED CIRCULATION FOR CARDIAC FAILURE OR SHOCK	RO1HE 10589-02S2	SGYB	16,486
SPENCER, FRANK C	STUDIES IN CARDIOVASCULAR SURGERY	RO1HE 10590-02S1	SGYB	2,046
SPENCER, WILLIAM A	PLASTICITY OF THE SIMPLEST NEURONAL PATHWAYS	RO1NB 05980-03	NEUB	53,089
STAHL, S SIGMUND	GINGIVAL HEALING STUDIES	PO1DE 02357-03	DEP	89,655
STAHL, WILLIAM M	FLUID REGULATION - VOLUME CONTROL	RO1HE 10927-03	SGYA	44,443
STETSON, CHANDLER A	DELAYED TYPE HYPERSENSITIVITY AND RELATED PHENOMENA	RO1AI 01481-14	IMB	43,706
STOTZKY, GUENTHER	MICROBIAL ECOLOGY IN SOIL EFFECT OF CLAY MINERALS	RO1AI 08476-01	BM	52,682
SULLIVAN, W JAMES	ELECTRICAL PROPERTIES OF THE RENAL TUBULE	RO1AM 07780-05	PHY	20,042
SUNSHINE, ABRAHAM	CLINICAL TESTS OF ANALGESICS USING COMPUTER ANALYSES	RO1GM 11496-04	PHRB	34,596
TESSLER, ARTHUR N	EVALUATION OF LACTIC DEHYDROGENASE URINARY ACTIVITY	RO1CA 07398-03	PTHA	13,110
THOMAS, LEWIS	PATHOGENESIS OF PLO INFECTIONS AFFECTING ARTERIES	RO1AI 07127-03	BM	49,763
THOMAS, LEWIS	GENERAL RESEARCH SUPPORT GRANT	SO1FR 05399-07	NSS	478,705
THORBECKE, GEERTRUIDA J	SITES OF PRODUCTION OF GAMMA GLOBULIN AND COMPLEMENT	RO1AI 03076-09	ALY	43,131
TONNA, EDGAR A	SKELETAL CELL AND MATRICAL CHANGES DURING AGING	RO1HD 03677-01	DEN	66,101
TRAUTZ, OTTO R	CRYSTALLOGRAPHIC STUDIES OF DEVELOPING CARIES	RO1DE 00159-15	DEN	79,700
TROLL, WALTER	TOXICOLOGICAL EVALUATION OF MUTAGENS AND CARCINOGENS	RO1CA 08491-03	GEN	50,382
TROLL, WALTER	IDENTIFICATION AND METABOLISM OF BLADDER CARCINOGENS	RO1CA 08621-02	PTHB	44,812
UHR, JONATHAN W	ANTIBODY FORMATION	RO1AI 08034-01	ALY	51,206
VAN DER KLOOT, WILLIAM G	COMPARATIVE PHYSIOLOGY OF EXCITABLE TISSUES	RO1NB 04874-05	PHY	20,736
VAN DUUREN, BENJAMIN L	INITIATION AND PROMOTION IN CARCINOGENESIS	RO1CA 08580-03	PTHB	41,245
VAN DUUREN, BENJAMIN L	MODE OF ACTION OF ALKYLATING CARCINOGENS	RO1CA 08944-02	PTHB	77,536
VASSALLI, PIERRE	ANTIBODY SYNTHESIS, LYMPHOCYTES AND IMMUNE RESPONSE	RO1AI 07651-02	ALY	37,516
VILCEK, JAN T	INTERFERON AND RESISTANCE TO VIRUS INFECTION	RO1AI 07057-03	VR	45,633
VITZ, PAUL C	PERCEPTUAL CODING AND PATTERN LEARNING	RO1NB 07636-01	EPR	19,831
WARNER, ROBERT C	STUDIES OF POLYNUCLEOTIDES AND NUCLEIC ACIDS	RO1GM 06967-09	BBC	61,657
WEBER, WENDELL W	N-ACETYLATION OF DRUGS BIOCHEMICAL AND PHARMACOGNETIC	RO1GM 15064-02	PHRB	30,411
WEBSTER, DOUGLAS B	AUDITORY SYSTEMS	RO1NB 05800-04	CMS	27,559
WEISSMANN, GERALD	STUDIES ON LYSOSOMES AND CONNECTIVE TISSUE	RO1AM 08363-04	CB	30,042
WEISSMANN, GERALD	MECHANISMS OF ARTHRITIS	RO1AM 11949-01	GMA	56,695
WHEATLEY, VICTOR R	LIPIDS OF NORMAL AND ABNORMAL HUMAN STRATUM CORNEUM	RO1AM 11174-02	GMA	17,159
WHEATLEY, VICTOR R	EFFECTS OF DIETARY FAT ON SKIN LIPIDS AND LIPOGENESIS	RO1AM 11829-01	MET	29,470
WIENER, ALEXANDER S	INDIVIDUALITY OF HUMAN BLOOD	RO1GM 09237-07	HEM	44,175
WIENER, ALEXANDER S	BLOOD GROUPS IN NON-HUMAN PRIMATES	RO1GM 12074-05	HEM	153,973
WINDLE, WILLIAM F	IMMEDIATE AND LONG-TERM EFFECTS OF ASPHYXIA NEONATORUM	PO1HD 03417-01	HDP	132,750
ZACH, LEO	IRRADIATION EFFECTS ON DENTAL AND ORAL PROCEDURES	RO1DE 02293-03	DEN	16,516
ZANNONI, VINCENT G	PHENYLALANINE METABOLISM IN DILUTE LETHAL MICE	RO1AM 09942-03	MET	24,351

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INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRG	DOLLARS
NEW YORK—(CON.)				
ZUCKER-FRANKLIN, DOROTHEA	ULTRASTRUCTURE AND FUNCTION OF LEUKOCYTES AND PLATELETS	RO1AM 12274-01	HEM	30,713
INSTITUTION TOTAL	198 9,817,232			
NEW YORK ZOOLOGICAL SOCIETY				
JACOBS, MYRON S	THE CETACEAN BRAIN - A COMPARATIVE STUDY	RO1NB 06582-04	NEUA	38,450
KALLMAN, KLAUS D	EVOLUTION OF PIGMENTARY AND SEX DETERMINING SYSTEMS	RO1CA 06665-06	GEN	29,943
INSTITUTION TOTAL	2 68,393			
OPTOMETRIC CENTER OF NEW YORK				
BROCK, FREDERICK W	ADAPTABILITY TO AMBLYOPIA AND/OR STRABISMUS	RO1NB 05945-03	VIS	22,032
LUDLAM, WILLIAM M	PHOTOGRAPHIC ANALYSIS OF OCULAR DIOPTRIC COMPONENTS	RO1NB 04806-04S1	VIS	20,951
LUDLAM, WILLIAM M	PHOTOGRAPHIC ANALYSIS OF OCULAR DIOPTRIC COMPONENTS	RO1NB 04806-05	VIS	51,455
INSTITUTION TOTAL	3 94,438			
P H S BUREAU OF HEALTH SERVICES-P H S HOSPITAL				
DAMATO, ANTHONY N	COOPERATIVE STUDY OF RENAL DISEASE AND HYPERTENSION	RO1HE 09751-04	SRC	36,368
DAMATO, ANTHONY N	COOPERATIVE STUDY OF TREATMENT OF HYPERTENSION	RO1HE 10714-02	SRC	34,948
DAMATO, ANTHONY N	ANGINA PECTORIS	RO1HE 11829-01	CVB	14,604
DI SCALA, VINCENT A	RENAL FUNCTION & STRUCTURE IN VARIOUS THYROID STATES	RO1AM 09914-02	GMB	14,325
GALLUZZI, NICHOLAS J	COOPERATIVE STUDY OF DRUGS AND CORONARY HEART DISEASE	RO1HE 08891-04	SRC	62,142
INSTITUTION TOTAL	5 162,387			
POLYTECHNIC INSTITUTE OF BROOKLYN				
BELLIN, JUDITH S	DYE AND LIGHT-SENSITIZED EFFECTS ON MICROORGANISMS	RO1CA 08358-05	RAD	22,309
BERINGER, F MARSHALL	BIOMEDICAL SCIENCES SUPPORT	S05FR 07063-03	NSS	55,729
COHEN, IRWIN A	ORGANOMETALLIC DERIVATIVES OF BIOLOGICAL COMPOUNDS	RO1AM 11355-02	MCHB	22,917
CRUMP, J	DYNAMIC ANALYSIS OF THE PROPERTIES OF THE EYEBALL	RO1NB 06671-02	VIS	32,932
EIRICH, FREDERICK R	DENTAL RESTORATIVE ADHESIVES	RO1OE 01769-06	DEN	58,026
GOODMAN, MURRAY	RACEMIZATION OF AMINO ACID AND PEPTIDE DERIVATIVES	RO1AM 03868-08	MCHB	33,773
GOODMAN, MURRAY	CONFORMATION OF BIOPOLYMERS VIA SPECTRAL METHODS	RO1GM 08974-07	BBCA	47,823
JOHNSON, ALAN A	BINARY DENTAL GOLD ALLOYS	RO1DE 02422-02	DEN	24,707
MEITES, LOUIS	A NEW TECHNIQUE OF THERMOANALYTICAL CHEMISTRY	RO1GM 15300-01	MCHB	43,058
MILLER, IRVING F	ELECTRO-OSMOTIC ARTIFICIAL KIDNEY	RO1GM 12013-04	BBCB	56,179
MORAWETZ, HERBERT	HYDROLYTIC ENZYME MODELS	RO1GM 05811-09	BIO	27,642
OSTER, GERALD	CHEMICAL AND-BIOLOGICAL EFFECTS OF LASER RADIATION	RO1GM 13823-02	RAD	59,047
PETERSON, NORMAN C	OXIDATION KINETICS OF COBALT SPIN ISOMERS	RO1AM 10946-02	BBCB	35,840
WILSON, G EDWIN, JR	CHEMICAL INVESTIGATIONS OF METABOLIC PATHWAYS	RO1AM 12419-01	MCHA	19,417
INSTITUTION TOTAL	14 539,399			
PUBLIC HEALTH RESEARCH INSTITUTE OF THE CITY OF NEW YORK				
ADLER, FRANK L	PHAGOCYTOSIS AND ANTIBODY FORMATION IN VITRO	RO1AI 06899-02S1	ALY	5,239
ADLER, FRANK L	PHAGOCYTOSIS AND ANTIBODY FORMATION IN VITRO	RO1AI 06899-03	ALY	93,496
DALES, SAMUEL	MORPHOGENESIS & TRANSPORT OF NUCLEOPROTEINS & MEMBRANES	RO1AI 07477-02	VR	55,332
DUBNAU, DAVID A	GENE CONSERVATION IN BACILLUS SPECIES	RO1GM 14542-02	GEN	33,580
FRANKLIN, RICHARD M	THE REPLICATION AND TRANSCRIPTION OF VIRAL RNA	RO1AI 07645-03	VR	112,848
HANAFUSA, HIDESABURO	CELLULAR ALTERATION INDUCED BY ROUS SARCOMA VIRUS	RO1CA 08747-03	VR	77,378
HIRST, GEORGE K	BASIC ANIMAL VIROLOGY	RO1AI 04360-07	VR	184,608
HIRST, GEORGE K	GENERAL RESEARCH SUPPORT GRANT	S01FR 05533-06	NSS	197,502
KAHAN, EUNICE	GENETIC AND BIOCHEMICAL STUDY OF SUBTILIS PHAGE SP82	RO1AI 07767-02	VR	22,607
MARGOLIN, PAUL	MUTATION AND SUPPRESSOR STUDIES OF A BACTERIAL GENE	RO1GM 15255-03	GEN	87,186
MINDICH, LEONARD E	CELL MEMBRANE SYNTHESIS IN THE CONTROL OF GROWTH	RO1GM 14840-02	MBY	22,990
MOSBACH, ERWIN H	PRODUCTION AND EXCRETION OF BILE ACIDS	RO1AM 05222-08	MET	47,292
MOSBACH, ERWIN H	ROLE OF INTESTINAL BACTERIA IN STEROID METABOLISM	RO1HE 10894-02	MBC	14,053
NOVICK, RICHARD P	GENETICS OF EXTRACHROMOSOMAL REPLICONS IN BACTERIA	RO1GM 14372-02	GEN	35,073
OISHI, MICHIO	MOLECULAR ASPECTS OF GENE FUNCTION IN BACILLUS SUBTILIS	RO1GM 14424-02	GEN	32,563
PENEFSKY, HARVEY S	STRUCTURE AND FUNCTION OF MITOCHONDRIAL ATPASE	RO1AM 12201-01	PC	9,499
PENEFSKY, HARVEY S	STRUCTURE AND FUNCTION OF MITOCHONDRIAL ATPASE	RO1AM 12201-02	PC	30,566
PULLMAN, MAYNARD E	BIOSYNTHETIC PROCESSES IN MITOCHONDRIA	RO1AM 08823-02S1	BIO	1,136
PULLMAN, MAYNARD E	BIOSYNTHETIC PROCESSES IN MITOCHONDRIA	RO1AM 08823-04	BIO	57,172
RATNER, SARAH	MECHANISMS OF NITROGEN TRANSFER AND UREA FORMATION	RO1AM 03428-09	PC	69,140
INSTITUTION TOTAL	20 1,189,260			
RIVERSIDE RESEARCH INSTITUTE				
COHEN, SANDRA R	A STUDY OF RACE AND ATTITUDES TOWARD SCHOOL	RO1HD 03961-01	DBR	59,317
DRILLER, JACK	POD RESEARCH CEREBROVASCULAR ENGINEERING SUPPORT	RO1HE 12161-01	SRC	24,971
INSTITUTION TOTAL	2 84,288			
ROCKEFELLER UNIVERSITY				
AHRENS, EDWARD H, JR	CLINICAL AND LABORATORY STUDIES IN LIPID METABOLISM	RO1HE 06222-08	MET	218,114
ARCHIBALD, REGINALD M	STUDY OF PDST-MENOPAUSAL OSTEOPOROSIS	RO1AM 03347-09	MET	30,973
ARCHIBALD, REGINALD M	STUDY OF HUMAN THYROCALCITONIN	RO1AM 11431-02	END	42,506
ARCHIBALD, REGINALD M	THE ROLE OF THE THYROID GLAND IN BRAIN METABOLISM	RO1NB 06895-02	MET	28,907
BERNARD, RUDY A	ELECTROPHYSIOLOGICAL STUDIES OF THE GUSTATORY SYSTEM	RO1NB 07143-02	CMS	28,739
BRAUN, ARMIN C	REVERSAL OF THE TUMOROUS STATE IN PLANTS	RO1CA 06346-07	CBY	20,695
CHASE, MERRILL W	MECHANISMS OF DELAYED-TYPE HYPERSENSITIVITY	RO1AI 01258-12	IMB	51,893

TABLE 2—RESEARCH GRANTS, BY AREA, INSTITUTION, AND PRINCIPAL INVESTIGATOR

INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRG	DOLLARS
NEW YORK—(CON.)				
CHOPPIN, PURNELL W	INTERACTION OF VIRUSES WITH RECEPTORS AND ANTIBODIES	RO1AI 05600-06	VR	48,126
COHN, ZANVIL A	THE PHYSIOLOGY OF MONONUCLEAR PHAGOCYTES	RO1AI 07012-03	ALY	31,370
CRAIG, LYMAN C	STRUCTURAL STUDIES OF ACTIVE PRINCIPLES	RO1AM 02493-10	BBCA	85,853
CRANFIELD, PAUL F	EFFECT OF DRUGS ON CARDIAC ARRHYTHMIAS	RO1HE 11994-01	PHRA	36,761
DAVIDSON, ERIC H	OOGENESIS AND THE CONTROL OF EMBRYONIC GENE ACTIVITY	RO1HD 02412-03	CBY	9,170
DOLE, VINCENT P	MOBILIZATION, TRANSPORT AND DEPOSIT OF LIPIDS	RO1AM 03963-08	MET	73,585
DUBOS, RENE	INTESTINAL FLORA, GROWTH AND RESISTANCE TO DISEASE	RO1AI 05676-05	BM	20,193
EDELMAN, GERALD M	INTERACTION AND ENERGY TRANSFER IN BIOLOGICAL SYSTEMS	RO1AM 04256-08	PC	36,797
GOEBEL, WALTHER F	THE CHEMICAL AND IMMUNOLOGICAL NATURE OF COLICINES	RO1AI 03153-09	BM	62,640
GRANICK, SAM	HEME AND CHLOROPHYLL BIOSYNTHESIS	RO1GM 04922-12	BIO	24,161
GREGORY, JOHN D	CHEMISTRY AND BIOSYNTHESIS OF MUCOPROTEINS	RO1AM 04973-07	PC	11,664
HARTLINE, HALDAN K	ELECTRICAL ACTIVITY, SINGLE RECEPTORS, NEURONS OF EYE	RO1NB 00864-13	VIS	61,955
HIRSCH, JAMES G	FUNCTIONS OF LEUCOCYTES	RO1AI 01831-11	ALY	52,711
HIRSCH, JULES	NORMAL GROWTH AND DEVELOPMENT OF ADIPOSE TISSUE	RO1HD 02761-02	NTN	39,954
HIRSCH, JULES	METABOLIC AND BEHAVIORAL STUDIES OF HUMAN BEHAVIOR	RO1HD 03719-04	NTN	63,065
HOTCHKISS, ROLLIN D	BIOCHEMISTRY AND GENETICS OF DRUG RESISTANCE	RO1AI 03170-09	BIO	44,481
HOTCHKISS, ROLLIN D	BIOLOGICALLY ACTIVE POLYNUCLEOTIDE STRUCTURES	RO1GM 09427-06S1	PC	1,241
HOTCHKISS, ROLLIN D	BIOLOGICALLY ACTIVE POLYNUCLEOTIDE STRUCTURES	RO1GM 09427-07	PC	23,328
JACKSON, GEORGE J	HELMINTH NUTRITION, EXCRETION AND HOST REACTION	RO1AI 04842-06	TMP	34,050
JAMIESON, JAMES D	CELL SECRETION AND MEMBRANE FORMATION IN THE PANCREAS	RO1AM 10928-02	CBY	24,800
KING, T P	BIOLOGICALLY ACTIVE SUBSTANCES FROM RAGWEED POLLEN	RO1AI 08445-01	IMB	13,402
KRAUSE, RICHARD M	STREPTOCOCCAL ANTIGENS AND ANTIBODIES	RO1AI 08429-02	ALY	69,713
KUNKEL, HENRY G	IMMUNOLOGICAL MECHANISMS IN RHEUMATOID ARTHRITIS	RO1AM 04761-08	ALY	46,633
KUNKEL, HENRY G	STUDIES OF MYELOMA PROTEINS AND ANTIBODIES	RO1AM 09792-03	ALY	55,995
LIPMANN, FRITZ	BIOSYNTHETIC MECHANISMS PROTEIN SYNTHESIS	RO1GM 13972-02	PC	187,770
LLOYD, DAVID P C	NEUROGLANDULAR PHYSIOLOGY	RO1NB 02816-08	PHY	6,183
LYNCH, CLARA J	GENETICS OF MOUSE STRAINS SUSCEPTIBLE TO TUBERCULOSIS	RO1AI 07377-03	GEN	18,292
LYNCH, CLARA J	POSSIBLE VIRUS IN LEUKEMIC SUBSTRAINS OF MICE	RO1CA 08974-02	VR	8,753
MAUZERALL, DAVID	PHOTOBIOLOGICAL SYSTEMS AND THEIR ANALOGS	RO1GM 14827-02	BBCA	21,955
MC CARTY, MACLYN	GENERAL CLINICAL RESEARCH CENTER	MO1FR 00102-05	CLR	561,611
MC CARTY, MACLYN	STUDIES ON THE CELL SURFACE OF STREPTOCOCCI	RO1HE 03191-10	ALY	78,212
MC CARTY, MACLYN	BIOMEDICAL SCIENCES SUPPORT	SO5FR 07065-03	NSS	154,857
MC EWEN, BRUCE S	GENE EXPRESSION IN NERVOUS TISSUE	RO1NB 07080-02	NEUB	15,436
MERRIFIELD, R BRUCE	SYNTHESIS OF PEPTIDES DESIGNED FOR ENZYMIC ACTIVITY	RO1AM 01260-12	BIO	34,473
MIRSKY, ALFRED E	PHYSIOLOGICAL ACTIVITIES OF NUCLEOPROTEINS	RO1GM 04919-12	CB	51,002
MOODY, MICHAEL F	FINE STRUCTURE OF BACTERIOPHAGES	RO1AI 07824-02	VR	18,265
MORSE, STEPHEN I	THE LYMPHOCYTE RESPONSE TO B PERTUSSIS	RO1AI 06116-05	ALY	17,318
NELSON, JOHN B	NATIVE MOUSE PATHOGENS AND TUMOR TRANSMISSION	RO1CA 06615-06	VR	21,212
PALADE, GEORGE E	STRUCTURE AND FUNCTION OF BLOOD CAPILLARIES	RO1HE 05648-08	CBY	47,662
PERLMANN, GERTRUDE E	PROTEIN STRUCTURE AND BIOLOGICAL FUNCTION	RO1AM 02449-10	BBC	58,227
REDDI, KUTUMBA K	BIOSYNTHESIS OF TOBACCO MOSAIC VIRUS RIBONUCLEIC ACID	RO1AI 06424-04	BIO	14,701
REICH, EDWARD	NUCLEIC ACID METABOLISM OF MAMMALIAN CELLS IN CULTURE	RO1GM 10717-06	CBY	23,355
ROTHEN, ALEXANDRE	FORCES INVOLVED IN INTERACTION OF LARGE MOLECULES	RO1GM 08815-07	BBCB	25,586
SIEKEVITZ, PHILIP	BIOGENESIS OF INTRACELLULAR MEMBRANES	RO1HD 01689-03	BIO	42,361
STEIN, WILLIAM H	CHEMICAL STRUCTURE AND ENZYME ACTIVITY OF PROTEINS	RO1GM 07256-09	PC	105,641
STEWART, JOHN M	CIRCULATORY SYSTEM EFFECTS OF BRADYKININ ANALOGS	RO1HE 10764-02	MCHB	34,581
TAMM, IGOR	VIRUS INDUCED ALTERATIONS IN ANIMAL CELLS	RO1AI 03445-09	VR	118,215
TATUM, EDWARD L	BIOCHEMICAL GENETICS OF MICROORGANISMS	RO1CA 03610-11	PC	40,113
TRAGER, WILLIAM	ELECTRON MICROSCOPE STUDY OF INTRACELLULAR PARASITISM	RO1AI 01407-12	TMP	24,633
TRAGER, WILLIAM	BIOCHEMISTRY OF INTRACELLULAR PARASITISM IN MALARIA	RO1AI 03550-08	TMP	8,285
WEISS, PAUL A	NEURODYNAMICS	RO1NB 07348-01	NEUB	143,748
WILLIAMS, CURTIS A	REGULATION OF PLASMA PROTEIN SYNTHESIS	RO1AI 07346-02	ALY	42,813
WILSON, VICTOR J	RECURRENT CONDITIONING IN THE SPINAL CORD	RO1NB 02619-09	PHY	35,500
INSTITUTION TOTAL	60	3,354,235		
ROOSEVELT HOSPITAL				
CHRISTY, NICHOLAS P	GENERAL RESEARCH SUPPORT GRANT	SO1FR 05663-01	NSS	27,912
MIDDLETON, ELLIOTT, JR	ANTIGEN, ANTIBODY AND CHEMICAL MEDIATORS IN ALLERGY	RO1AI 07136-02S1	IMB	969
MIDDLETON, ELLIOTT, JR	ANTIGEN, ANTIBODY AND CHEMICAL MEDIATORS IN ALLERGY	RO1AI 07136-03	IMB	34,112
PHILLIPS, GERALD B	ESTIMATION OF INDIVIDUAL PHOSPHOLIPIDS IN HUMAN SERUM	RO1HE 10950-02	MET	47,136
ROSENER, WILLIAM	ESTROGEN BINDING IN HUMAN SERUM	RO1AM 11852-01	END	23,426
SHERMAN, WILLIAM B	CLINICAL RESEARCH ON ALLERGIC DISEASES	PO2AI 05861-05	GMA	148,348
INSTITUTION TOTAL	6	281,903		
SLOAN KETTERING INSTITUTE FOR CANCER RESEARCH				
HORSFALL, FRANK L, JR	RESEARCH PROGRAM OF SLOAN-KETTERING INSTITUTE	RO1CA 08748-03	NSS	4,386,737
INSTITUTION TOTAL	1	4,386,737		
ST. BARNABAS HOSPITAL FOR CHRONIC DISEASES				
GOLLUB, SEYMOUR	FURTHER DEVELOPMENT OF A NEW BACTERIAL ENZYME	RO1CA 07621-05	HEM	30,229
INSTITUTION TOTAL	1	30,229		
ST. JOHN'S UNIVERSITY				
KOVACS, JOSEPH	CHEMISTRY OF ASPARTIC ACID PEPTIDES AND POLYPEPTIDES	RO1GM 06579-09	BIO	28,989

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INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRC	DOLLARS
NEW YORK—(CON.)				
KOVACS, JOSEPH	POLYPEPTIDES RELATED TO ANTHRAX-POLYPEPTIDE	RO1GM 08795-07	BIO	27,510
INSTITUTION TOTAL 2	56,499			
ST. LUKE'S HOSPITAL CENTER				
BERTLES, JOHN F	NON-GENETIC CONTROL OF HEMOGLOBIN SYNTHESIS	RO1AM 08154-04	HEM	37,022
CASE, ROBERT B	HEMODYNAMICS AND METABOLISM IN CORONARY INSUFFICIENCY	RO1HE 02621-12	CVA	59,410
DAVIDSON, CHARLES W	GENERAL RESEARCH SUPPORT GRANT	SO1FR 05501-06	NSS	123,161
HOLT, PETER R	INTESTINAL ABSORPTION OF FAT & BILE SALTS	RO1HE 10055-04	GM	51,764
KELLY, WILLIAM G	STUDIES ON THE METABOLISM OF STEROIDS	RO1AM 12257-01	END	34,848
RYAN, STEPHEN F	CHANGES IN THE PULMONARY ALVEOLAR SEPTUM IN EMPHYSEMA	RO1AI 08410-01	PTHB	13,981
VAN ITALLIE, THEODORE B	NUTRITION AND METABOLIC RESEARCH CENTER	PO2AM 08107-04	AMP	307,199
INSTITUTION TOTAL 7	627,385			
ST. VINCENT'S HOSPITAL AND MEDICAL CENTER OF NEW YORK				
ANTHONY, SISTER M	GENERAL RESEARCH SUPPORT GRANT	SO1FR 05502-04	NSS	93,463
AYRES, STEPHEN M	COMPONENTS OF THE ALVEOLAR-ARTERIAL OXYGEN DIFFERENCE	RO1HE 08074-06	PHY	25,426
GIANNELLI, STANLEY, JR	REGIONAL FLOW AND VASCULAR VOLUMES WITH ACUTE ANEMIA	RO1HE 10781-02	SGYA	54,255
GROSSI, CARLO E	SURGICAL TREATMENT OF COLO-RECTAL CANCER, NEW TECHNIQUE	RO1CA 10661-01	SGYA	68,245
NEALON, THOMAS F, JR	HOMEOSTASIS DURING CARDIOPULMONARY BYPASS	RO1HE 12442-01	SGYA	35,246
INSTITUTION TOTAL 5	276,635			
STATEN ISLAND MENTAL HEALTH SOCIETY				
SILBERSTEIN, RICHARD M	MATERNAL CONTACT AND PREMATURE INFANT DEVELOPMENT	RO1HD 01418-04	DBR	113,694
INSTITUTION TOTAL 1	113,694			
TEACHERS COLLEGE				
HUTTENLOCHER, JANELLEN	CONCEPTUAL DEVELOPMENT AND LANGUAGE COMPREHENSION	RO1HD 03215-01	DBR	32,648
INSTITUTION TOTAL 1	32,648			
YESHIVA UNIVERSITY				
ABRAMSON, ARTHUR S	SYSTEMIC EFFECTS OF NEUROGENIC BLADDER ACTIVITY	RO1AM 05284-07	SGYA	21,940
AMASSIAN, VAHE E	SIMULTANEOUS RECORDING OF SOMATOSENSORY NEURONS	RO1NB 01603-11	NEUA	40,118
AMASSIAN, VAHE E	PHYSIOLOGICAL DATA PROCESSING AND ANALYSIS FACILITY	RO1NB 03491-07	COM	87,525
ANGRIST, ALFRED A	BIOCHEMICAL AND MORPHOLOGICAL STUDY OF ENDOCARDITIS	RO1HE 02190-13	PTHA	111,109
ARIAS, IRWIN M	THE MECHANISM OF BILE PIGMENT EXCRETION	RO1AM 02019-11	MET	51,927
AUGUST, JOSEPH T	RIBONUCLEIC ACID SYNTHESIS AND METABOLISM	RO1GM 11936-05	BIO	21,639
BAEZ, SILVIO	ANALYSIS OF FACTORS REGULATING MICROCIRCULATION	RO1HE 06736-08	CVB	46,456
BASES, ROBERT E	RNA SYNTHESIS IN MAMMALIAN CELLS AFTER RADIATION	RO1CA 10271-02	RAD	36,614
BASHEY, REZA I	EFFECT OF CHELATING AGENTS ON CONNECTIVE TISSUE	RO1HE 11182-02	PTHA	29,884
BATTISTO, JACK R	NATURALLY OCCURRING DELAYED-TYPE ISO-HYPERSENSITIVITY	RO1AI 04131-08	IMB	58,033
BAUM, GILBERT	QUANTITATIVE PATTERN RECOGNITION ULTRASONOGRAPHY	RO1GM 12460-04	SSS	160,473
BENNETT, BOYCE P	MECHANISMS OF TISSUE REJECTION	RO1CA 08145-05	IMB	39,100
BERLIN, LOUIS	EFFECT OF SEIZURES ON CORTICAL MULTINEURONAL ACTIVITY	RO1NB 03427-07	NEUA	22,602
BERNSTEIN, JAY	THE PATHOGENESIS OF CONGENITAL RENAL MALFORMATIONS	RO1AM 07840-05	HED	39,719
BETHEIL, JOSEPH J	BIOCHEMICAL BASIS OF NUTRITIONAL AMINO ACID IMBALANCE	RO1AM 08624-04	MET	15,666
BIEMPICA, LUIS	CYTOLOGY OF NORMAL AND DYSFUNCTIONAL HEPATIC CELLS	RO1AM 10852-02	PTHA	19,720
BIRCH, HERBERT G	CENTER FOR NORMAL AND ABERRANT ADAPTIVE DEVELOPMENT	PO1HD 00719-07	HDP	294,167
BLAUFOX, MORTON D	RENAL BLOOD FLOW AND RENIN SECRETION IN HYPERTENSION	RO1HE 11984-01	CVB	39,545
BLOCH, ERIC	INFLUENCE OF HORMONES ON GENITAL TRACT DEVELOPMENT	RO1HD 00420-10	REB	37,259
BLOOM, BARRY R	THE BIOCHEMICAL BASIS OF DELAYED HYPERSENSITIVITY	RO1AI 07118-03	ALY	21,306
BLUMENFELD, OLGA O	SUBUNITS OF COLLAGEN AND THEIR CROSSLINKS	RO1AM 05821-07	BBCB	27,024
BOOKCHIN, ROBERT M	STRUCTURAL PROTEINS OF THE CELL MEMBRANE	RO1AM 12597-01	HEM	21,088
BORNSTEIN, MURRAY B	BIOLOGY OF MYELINATED CNS IN TISSUE CULTURE	RO1NB 06735-03	NEUB	53,383
BOROWITZ, IRVING J	SYNTHESIS OF MODELS FOR MACROLIDE ANTIBIOTICS	RO1AI 07455-02	MCHA	19,980
BRADLEY, THOMAS B, JR	HEMOGLOBIN AND SERUM PROTEINS	RO1HE 09014-05	HEM	19,606
BRIEHL, ROBIN W	STRUCTURE AND OXYGEN COMBINING FUNCTION OF HEMOGLOBIN	RO1HE 07451-06	HEM	39,202
BUCKLEY, NANCY M	NUCLEOSIDES IN CARDIAC EXCITATION AND CONTRACTION	RO1HE 07648-05S1	PHY	4,150
COHEN, MORTON I	CENTRAL MECHANISMS OF RESPIRATORY PERIODICITY	RO1NB 03970-07	PHY	30,555
COHEN, MORTON I	CENTRAL NEURAL ORGANIZATION OF CARDIOVASCULAR CONTROL	RO1NB 06590-03	PHY	1,500
COOK, WILLIAM A	CARDIOPULMONARY AND ORGAN FLOW RESPONSES TO SHOCK	RO1HE 11924-01	SGYA	24,995
CRAIN, STANLEY M	BIOPHYSICAL CYTOLOGY OF CULTURED NEURAL TISSUES	RO1NB 06545-03	PHY	46,836
D'ADAMO, AMEDEO F, JR	THE KETOGLUTARATE SHUNT AND ITS REGULATION	RO1NB 06738-02	PCV	30,554
DALY, MARIE M	EFFECTS OF HYPERTENSION ON ARTERIAL METABOLISM	RO1HE 05143-09	CA	18,021
DARNELL, JAMES E	FUNCTION OF NORMAL AND VIRAL RNA IN ANIMAL CELLS	RO1CA 07861-05	VR	82,133
DEL GUERCIO, LOUIS R	HEMODYNAMICS OF CLINICAL CARDIAC RESUSCITATION	RO1HE 10001-03	SGYA	19,140
DEMING, QUENTIN B	COMPREHENSIVE PROGRAM OF RESEARCH IN AGING	PO1HD 00674-10	HDP	339,458
DOUGLAS, WILLIAM W	FUNCTIONS OF NON-MEDULLATED AFFERENT AUTONOMIC FIBRES	RO1NB 01093-12	PHRA	23,304
DOUGLAS, WILLIAM W	MECHANISM OF CATECHOLAMINE RELEASE BY DRUGS	RO1NB 04006-07	PHRA	37,620
DUNHAM, EDWARD T	CATION TRANSPORT ACROSS CELL MEMBRANES	RO1CA 06050-05S1	PHY	19,530
DURAN-REYNALS, MARIA L	POSSIBLE NEOPLASTIC EFFECTS OF NON-NEOPLASTIC VIRUSES	RO1CA 07160-04	PTHB	53,046
EAGLE, HARRY	METABOLIC, VIRAL AND GENETIC STUDIES IN CELL CULTURE	RO1AI 04153-08	SSS	142,551
EDELDMANN, CHESTER M, JR	KIDNEY FUNCTION IN INFANTS AND CHILDREN	RO1HE 05561-08	CVB	72,483
EDER, HOWARD A	METABOLISM OF PLASMA LIPOPROTEINS	RO1HE 02965-11S1	MET	1,158
EDER, HOWARD A	METABOLISM OF PLASMA LIPOPROTEINS	RO1HE 02965-12	MET	100,152
ELKIN, MILTON	RENAL ANGIOGRAPHY IN HEMORRHAGIC SHOCK	RO1GM 15809-01	RAD	26,103

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INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRG	DOLLARS
NEW YORK—(CON.)				
ENGLAND, SASHA	STERIC COURSE OF ENZYMATIC REACTIONS	RO1GM 04428-12	BIO	16,905
ESCALONA, SIBYLLE K	STUDIES OF EGO DEVELOPMENT	RO1HD 01155-04	CPR	114,113
FELDMAN, SAMUEL M	THE POSTERIOR HYPOTHALAMUS AND BEHAVIORAL AROUSAL	RO1NB 03942-06	NEUA	25,565
FRANK, CHARLES W	VINEBERG PROCEDURE - A CONTROLLED CLINICAL TRIAL	RO1HE 11653-01	SGYB	56,527
FRATER, ROBERT W	SURGICAL SIGNIFICANCE OF RIGHT VENTRICULAR GROWTH	RO1HE 09950-03	SGYA	37,579
FRATER, ROBERT W	IN VIVO TESTING OF IMPROVED MITRAL VALVE PROSTHESIS	RO1HE 11565-01	SGYA	53,534
FRUHMAN, GEORGE J	QUANTITATIVE STUDIES ON WHITE BLOOD CELLS	RO1CA 03071-12	HEM	12,130
FURFINE, CHARLES S	ROLE OF TRIOSE PHOSPHATES IN GLYCOLYSIS	RO1AM 09350-03S1	BIO	12,348
GALLOP, PAUL M	PROTEIN CARBOXYL AND CARBOXYL-LINKED GROUPS	RO1HE 04762-09	BIO	42,224
GELLER, JACK	EFFECT OF PROGESTERONE ON PROSTATE SIZE AND MORPHOLOGY	RO1CA 06574-06	END	25,550
GERSHON, HAIT	CARDIOPULMONARY PHYSIOLOGY IN INFANCY	RO1HE 08378-05	HED	26,507
GLUECKSOHN-WAELSCH, SALOME	GENETICALLY CONTROLLED ABNORMAL DEVELOPMENT	RO1HD 00193-13	CBY	34,962
GOETZ, ROBERT H	HEMODYNAMIC STUDIES OF THE PULMONARY CIRCULATION	RO1HE 03743-10	SGYB	36,000
GOLDFISCHER, SIDNEY L	STORAGE DISEASE - INTRACELLULAR TRANSPORT AND DIGESTION	RO1NB 06856-02	PTHA	40,132
GOODMAN, FRED	INHIBITION OF COLIPHAGE SYNTHESIS BY ANTITUMOR AGENTS	RO1AI 08191-01	PHRB	24,319
GORDON, HARRY H	GENERAL CLINICAL RESEARCH CENTER	MO1FR 00050-07	CLR	173,598
GORDON, HARRY H	GENERAL CLINICAL RESEARCH CENTER - ACUTE	MO1FR 00066-06	CLR	417,969
GORDON, HARRY H	RESEARCH IN MENTAL RETARDATION AND HUMAN DEVELOPMENT	PO1HD 01799-03	HDP	68,570
GORDON, HARRY H	EVOKED EEG POTENTIALS AND DIET OF PREMATURE INFANTS	RO1HD 01405-04	HED	77,604
GORDON, HARRY H	GENERAL RESEARCH SUPPORT GRANT	SO1FR 05397-07	NSS	478,705
GOTTFRIED, EUGENE L	BLOOD CELL PROPERTIES IN RELATION TO CELL TYPE	RO1HE 08971-05	HEM	33,213
GROLLMAN, ARTHUR P	MOLECULAR PHARMACOLOGY OF TUMOR AND VIRUS INHIBITORS	RO1CA 10666-01	PHRB	63,607
HAMBURGH, MAX	CONTROL MECHANISMS OF DIFFERENTIATION OF THE CNS	RO1NB 01716-11	NEUA	24,560
HAMERMAN, DAVID J	HYALURONATEPROTEIN SYNTHESIS IN CELL CULTURE	RO1AM 08729-03S1	MBY	10,200
HAMERMAN, DAVID J	HYALURONATEPROTEIN SYNTHESIS IN CELL CULTURE	RO1AM 08729-04A1	GMA	32,801
HAYS, RICHARD M	THE MODIFICATION OF CELL STRUCTURE BY VASOPRESSIN	RO1AM 03858-08	PHY	17,817
HENNEMAN, PHILIP H	HUMAN GROWTH HORMONE	RO1AM 11600-02	GMB	73,423
HERSHEY, SOLOMON G	EXPERIMENTAL BASIS FOR SHOCK THERAPY	RO1HE 11391-01S1	SGYA	20,329
HERSHEY, SOLOMON G	EXPERIMENTAL BASIS FOR SHOCK THERAPY	RO1HE 11391-02	SGYA	70,385
HOBERMAN, HENRY D	THE COUPLING OF COENZYME-LINKED OXIDO-REDUCTIONS	RO1CA 03641-12	BIO	38,400
HOFFMAN, LEE	PULMONARY DISEASE AND LYSOSOMES	RO1HE 10176-03	PTHB	14,867
HORECKER, BERNARD L	STRUCTURE, FUNCTION AND BIOSYNTHESIS OF MACROMOLECULES	PO1GM 11301-05S1	GMP	90,269
HORECKER, BERNARD L	STRUCTURE, FUNCTION AND BIOSYNTHESIS OF MACROMOLECULES	PO1GM 11301-06	GMP	368,448
HURWITZ, JERARD	ENZYMATIC REACTIONS INVOLVED IN NUCLEIC ACID METABOLISM	RO1GM 13344-03	PC	126,643
JAFFE, ERNST R	METHEMOGLOBIN AND PYRIDINE NUCLEOTIDE METABOLISM	RO1HE 10041-04	HEM	28,716
JEDEIKIN, LILLIAN A	CARBOHYDRATE AND LIPID METABOLISM IN HEART AND LIVER	RO1HE 08568-04	MET	15,860
JOHNSON, ANNE B	HISTOCHEMISTRY OF NORMAL AND ABNORMAL NERVOUS TISSUE	RO1NB 07298-02	NEUB	17,585
JOKLIK, WOLFGANG K	MACROMOLECULAR SYNTHESIS IN VIRUS-INFECTED CELLS	RO1AI 04913-06	MBC	91,510
KATZMAN, ROBERT	NEUROLOGICAL CLINICAL RESEARCH CENTER	P02NB 03356-08	NBPA	354,338
KATZMAN, ROBERT	SOME ASPECTS OF THE STATE OF BRAIN CATIONS	RO1NB 01450-11	PHY	36,723
KERN, HAROLD L	TRANSPORT PROCESSES IN OCULAR TISSUES	RO1NB 05053-05	VIS	36,386
KIKKAWA, YUTAKA	ULTRASTRUCTURAL STUDIES OF THE LUNG	RO1HD 02459-02	PTHA	28,975
KLEINER, GEORGE J	MECHANISM OF COAGULATION DEFECTS IN PREGNANCY	RO1HD 02057-03	HEM	15,477
KLINGER, HAROLD P	CHROMOSOMES IN HUMAN DEVELOPMENTAL ABNORMALITIES	RO1GM 11556-05	GEN	69,990
KOCHEN, JOSEPH A	INTRINSIC AND EXTRINSIC FACTORS IN HEMOLYSIS	RO1HE 07234-06	HEM	41,634
LAUSON, HENRY D	METABOLISM OF NEUROHYPOPHYSIAL ANTI-DIURETIC HORMONE	RO1AM 01588-12	END	28,985
LEDEEN, ROBERT W	STUDY OF BRAIN GANGLIOSIDES	RO1NB 04834-05	PC	36,327
LEE, T H	STRUCTURAL STUDIES OF OVINE PROLACTIN	RO1AM 12171-01	BIO	13,981
LENARD, JOHN	PLASMA MEMBRANE STRUCTURE AND RED CELL SPHEROCYTOSIS	RO1AM 12397-01	HEM	20,705
LEV, MEIR	WATER SOLUBLE FACTOR FROM LIVER AND VITAMIN K	RO1AM 10289-03	NTN	57,978
LEVENSON, STANLEY M	GERMFREE RESEARCH	PO1AM 05664-07	AMP	320,602
LEVINE, WALTER G	THE ENZYMIC NATURE OF CERULOPLASMIN	RO1HE 06450-07	BIO	16,404
LISTOWSKY, IRVING	CONFORMATION OF FERRITIN AND APFERRITIN IN SOLUTION	RO1HE 11511-01	BBCA	12,869
LONDON, IRVING M	METABOLISM OF THE ERYTHROCYTE	RO1HE 02803-12	HEM	105,259
LOWY, BERTRAM A	AGING PROCESS IN THE MAMMALIAN ERYTHROCYTE	RO1AM 02655-10	HEM	34,620
MAEIR, DAVID M	HISTOCHEMICAL STUDIES OF PATHOLOGY OF OVARY & TESTIS	RO1AM 11664-02	PTHB	12,036
MAITRA, UMADAS	RNA METABOLISM AND PROTEIN SYNTHESIS	RO1GM 15399-01	BIO	28,483
MAKMAN, MAYNARD H	HORMONAL INFLUENCES ON PROTEIN SYNTHESIS	RO1AM 09213-02S1	END	112
MAKMAN, MAYNARD H	HORMONAL INFLUENCES ON PROTEIN SYNTHESIS	RO1AM 09213-03	END	12,840
MARCUS, DONALD M	IMMUNOCHEMISTRY OF CELL MEMBRANE ANTIGENS	RO1AI 05336-05	ALY	44,333
MARCUS, LEONARD C	CONGENITAL CATARACTS AND ASSOCIATED ANOMALIES	RO1NB 07223-02	VIS	8,977
MARCUS, PHILIP I	HOST-CELL INTERACTION OF ANIMAL VIRUSES	RO1AI 03619-08	VR	55,164
MARMUR, JULIUS	PROPERTIES OF TRANSFORMING AND INFECTIOUS ONAS	RO1GM 11946-05S1	PC	7,693
MARMUR, JULIUS	PROPERTIES OF TRANSFORMING AND INFECTIOUS ONAS	RO1GM 11946-06	PC	100,702
MERSKEY, CLARENCE	HYPERCOAGULABILITY OF BLOOD IN THROMBOTIC STATES	RO1HE 06191-08	HEM	32,629
MEYER, KARL	MUCOPOLYSACCHARIDES OF CONNECTIVE TISSUES	RO1AM 11657-01S1	PC	12,000
MEYER, KARL	MUCOPOLYSACCHARIDES OF CONNECTIVE TISSUES	RO1HD 02646-02	PTHA	128,475
MOLNAR, JOHN J	NUCLEAR-CYTOPLASMIC METABOLIC RELATIONSHIPS	RO1GM 07744-08	PTHA	17,460
MORRILL, GENE A	ION TRANSPORT DURING DEVELOPMENT OF R. PIPPIENS EGGS	RO1GM 10757-06	PHY	38,770
NATHENSON, STANLEY G	CHEMICAL STUDIES ON HISTOCOMPATIBILITY ANTIGENS	RO1AI 07289-03	ALY	21,607
NORTON, WILLIAM T	STUDY OF NERVOUS SYSTEM LIPIOS	RO1NB 01006-14	PC	47,537
NORTON, WILLIAM T	THE CHEMICAL NATURE OF MYELIN AND MYELIN LIPOPROTEINS	RO1NB 02476-09	PC	39,828
NOVIKOFF, ALEX B	BIOCHEMICAL CYTOLOGY OF NORMAL AND MALIGNANT TISSUES	RO1CA 06576-06	PTHB	132,708

TABLE 2—RESEARCH GRANTS, BY AREA, INSTITUTION, AND PRINCIPAL INVESTIGATOR

INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRG	DOLLARS
NEW YORK—(CON.)				
OSINCHAK, JOSEPH	EM HISTOCHEMICAL STUDIES OF NEUROSECRETION	RO1NB 07566-01	NEUB	26,351
PAPPAS, GEORGE D	ELECTRON MICROSCOPY OF SYNAPSES	RO1NB 07673-01	CBY	9,595
PAPPAS, GEORGE D	E M STUDY OF EYE AND VASCULAR FLUID DYNAMICS	RO1NB 07674-01	VIS	21,730
PAPPAS, GEORGE D	E M STUDY OF EYE AND VASCULAR FLUID DYNAMICS	RO1NB 07674-02	VIS	36,658
PAULSEN, ELSA P	INSULIN, GLUCAGON, GROWTH HORMONE IN OBESE CHILDREN	RO1AM 11750-01	MET	28,957
PEISACH, JACK	STUDIES OF COPPER AND IRON CONTAINING PROTEINS	RO1GM 10959-06	BIO	27,600
PESETSKY, IRWIN	THE INFLUENCE OF THYROXIN UPON NEURONS	RO1NB 04555-05	CBY	18,394
POLLACK, SIMEON	STUDIES ON IRON ABSORPTION	RO1AM 11524-01	GMA	45,322
PURPURA, DOMINICK P	NEURONAL DEVELOPMENT, INTERACTION AND ORGANIZATION	PO1NB 07512-01	NBPA	307,350
RAGINS, HERZL	PARIETAL CELL TURNOVER IN THE MOUSE STOMACH	RO1AM 09377-03S1	PTHB	4,170
RAGINS, HERZL	HISTAMINE METABOLISM IN GASTRIC MUCOSA	RO1AM 09378-03	PTHB	44,341
RANNEY, HELEN M	STUDIES OF THE PROPERTIES OF HEMOGLOBIN	RO1AM 04502-09	HEM	55,525
RANNEY, HELEN M	RESEARCH IN HEREDITARY HEMATOLOGIC DISORDERS	RO1AM 09824-03	HEM	31,368
RAPIN, ISABELLE	THE USE OF SENSORY INFORMATION BY NON-VERBAL CHILDREN	RO1NB 02503-09	CMS	24,987
RAPPORT, MAURICE M	CHEMISTRY AND FUNCTION OF BRAIN PLASMALOGENS	RO1NB 01570-10S1	PC	820
RITCHIE, JOSEPH M	STUDY OF MAMMALIAN NON-MYELINATED FIBERS	RO1NB 01927-10S1	PHY	7,155
RITCHIE, JOSEPH M	RADIOISOTOPE STUDIES IN NERVE NUCLEI AND EMBRYOS	RO1NB 05803-04	PHY	750
ROBBINS, ELLIOTT	BIOCHEMISTRY AND MORPHOLOGY OF THE CELL LIFE CYCLE	RO1GM 14582-02	MBY	39,606
ROBBINS, JOHN B	DEVELOPMENTAL ASPECTS OF THE IMMUNE RESPONSE	RO1AI 08110-01	ALY	46,299
ROSEN, SAMUEL M	METABOLIC REGULATION OF FDPASE AND GLUCONEOGENESIS	RO1AM 09038-04	PC	42,472
ROSENBAUM, ROBERT M	HISTOCHEMISTRY OF NORMAL & ABNORMAL TISSUES AND CELLS	RO1AM 03605-09	MBY	25,627
ROSENBAUM, ROBERT M	CYTOCHEMICAL STUDIES ON OXYGEN TOXICITY	RO1GM 05483-10	MBY	21,000
ROSOMOFF, HUBERT L	COOPERATIVE STUDY OF ANEURYSMS AND ACUTE SA HEMORRHAGE	RO1NB 04708-05S1	SSS	2,439
ROTHFIELD, LAWRENCE I	STUDIES OF LIPOPOLYSACCHARIDE TRANSFERASES	RO1AM 08847-04	PC	58,889
ROWEN, ROBERT	LIPOPROTEIN TRANSFORMATIONS BY BACTERIAL PRODUCTS	RO1AI 05507-04	MBY	9,723
ROYCE, PAUL C	BIOASSAY OF RENAL GROWTH FACTOR	RO1AM 05116-08	GMB	17,612
RUBEN, ROBERT J	EMBRYOLOGY OF THE INNER EAR	RO1NB 08365-01	CMS	43,312
SANDSON, JOHN I	TURNOVER OF HYALURONATE PROTEIN IN SYNOVIAL FLUID	RO1AM 07343-05	GMA	29,472
SCARPELLI, EMILE M	LUNG SURFACTANT SYSTEM ENZYMES, TURNOVER, DEFECTS	RO1HE 09659-04	CVB	50,488
SCHARFF, MATTHEW D	VIRAL SYNTHESIS AND HOST METABOLISM	RO1AI 05231-04	VR	27,777
SCHARRER, BERTA V	NEUROENDOCRINE RELATIONSHIPS IN INSECTS	RO1AM 03984-11	END	24,000
SCHARRER, BERTA V	NEURO ENDOCRINE INTEGRATION	RO1NB 00840-14	NEUA	27,240
SCHNEIBERG, I HERBERT	HEREDITARY DEFECTS IN PROTEIN SYNTHESIS	RO1AM 01059-13	MET	147,338
SCHNEIBERG, I HERBERT	STUDY OF HEREDITARY NEUROMUSCULAR DISEASES	RO1NB 06493-03	SSS	107,443
SCHNEIBERG, LABE C	COOPERATIVE STUDY OF ACTH IN MULTIPLE SCLEROSIS	RO1NB 05837-04	SRC	47,740
SEIFTER, SAM	ENZYMATIC AND IMMUNOLOGICAL STUDIES OF COLLAGEN	RO1AM 03172-10	ALY	31,208
SEIFTER, SAM	SOME CHEMICAL AND IMMUNOLOGICAL STUDIES ON ELASTIN	RO1AM 11913-01	ALY	45,701
SHARPLESS, SETH K	REORGANIZATION OF FUNCTION IN THE NERVOUS SYSTEM	RO1NB 06656-02	NEUB	24,251
SHULMAN, KENNETH	INTRACRANIAL VASCULAR PRESSURE RELATIONSHIPS	RO1NB 07871-01	NEUA	15,420
SHULMAN, KENNETH	INTRACRANIAL VASCULAR PRESSURE RELATIONSHIPS	RO1NB 07871-02	NEUA	26,663
SIEGEL, JOHN H	THE EFFECT OF FAILURE ON CARDIAC INOTROPIC MECHANISMS	RO1HE 10033-04	CVA	47,860
SIEGEL, JOHN H	ROLE OF OCCULT MYOCARDIAL FAILURE IN HUMAN SHOCK	RO1HE 10415-03	SGYA	34,833
SOBEL, EDNA H	HORMONAL INFLUENCES ON GROWTH RATE AND BONE AGE OF RATS	RO1HD 01204-08	END	16,554
SOBEL, EDNA H	ENDOCRINE FUNCTION IN NON-ENDOCRINE GROWTH AND FAILURE	RO1HD 02541-01	END	37,670
SOFFER, RICHARD L	PROTEIN SYNTHESIS BY THYROID EXTRACTS	RO1AM 12395-01	PC	6,431
SOFFER, RICHARD L	PROTEIN-MODIFYING REACTIONS IN VITRO	RO1AM 12395-02	PC	14,977
STRECKER, HAROLD J	ENERGY - YIELDING AND - UTILIZING REACTIONS IN NUCLEI	RO1GM 13012-03	BIO	15,314
SUMMERS, DONALD F	SYNTHESIS OF VIRAL NON-CAPSID PROTEINS IN CELLS	RO1AI 07140-03	VR	26,841
SUZUKI, KUNIHICO	GANGLIOSIDES IN WHITE MATTER AND IN MYELIN	RO1NB 07944-01	NEUB	30,435
TERRY, ROBERT D	CYTOLOGIC STUDIES IN DISEASES OF THE NERVOUS SYSTEM	RO1NB 02255-10	PTHA	59,174
ULICK, STANLEY	DISORDERS OF STEROID HORMONE BIOSYNTHESIS	RO1AM 10641-01S1	END	3,994
ULICK, STANLEY	DISORDERS OF STEROID HORMONE BIOSYNTHESIS	RO1AM 10641-02	END	28,516
VOLK, HERBERT	COOPERATIVE STUDY OF BREAST CANCER HORMONE THERAPY	R10CA 03359-11A1	SRC	41,186
WHITE, ABRAHAM	BIOCHEMICAL STUDIES OF LYMPHOID TISSUE	RO1CA 07470-05	END	54,175
WILLIAMS, M HENRY, JR	RELATIONSHIP BETWEEN PULMONARY STRUCTURE AND FUNCTION	RO1HE 08519-05	CVB	58,712
WINSBERG, FRED	CLINICAL TRIAL AUTOMATED MAMMOGRAPHIC TUMOR DETECTION	RO1CA 07148-05	RAD	46,775
WITTEBERG, JONATHAN B	PROTOHEME TERMINAL OXIDASES	RO1HE 10087-03	HEM	32,061
WITNER, MURRAY	VIRULENCE OF AXENICALLY-GROWN ENTAMOEBA HISTOLYTICA	RO1AI 07371-02	TMP	24,624
WITNER, MURRAY	KARYOTYPE AND ENZYME PATTERNS OF ASCITES TUMOR CELLS	RO1CA 07081-06	PTHB	27,982
WOHL, HERBERT	IMMUNOLOGIC STUDY OF ANTIHEMOPHILIC FACTOR	RO1HE 08566-03S2	HEM	7,200
ZINGESSER, LAWRENCE H	REGIONAL CEREBRAL BLOOD	RO1NB 06431-03	NEUA	20,259
INSTITUTION TOTAL	179	9,572,821		
ORANGEBURG				
NEW YORK STATE DEPARTMENT OF M HY--ROCKLAND STATE HOSPITAL				
CLYNES, MANFRED	EVOKED BRAIN POTENTIALS TO COLOR VISION	RO1NB 06124-03	VIS	33,300
KLINE, NATHAN S	TECHNIQUE FOR MAINTAINING HOMEOSTASIS OF BODY CHEMICALS	RO1AM 09498-03	GM	19,229
KLINE, NATHAN S	GENERAL RESEARCH SUPPORT GRANT	S01FR 05651-02	NSS	157,350
SACKS, WILLIAM	METABOLISM OF AMINO ACIDS BY BRAIN	RO1NB 06896-02	MET	25,583
SCHAYER, RICHARD W	STUDIES ON THE METABOLISM AND FUNCTION OF HISTAMINE	RO1AM 10155-03	PHRA	45,313
STANLEY, ALFRED M	ROCKLAND STATE HOSPITAL RESEARCH COMPUTER LABORATORY	P07FR 00268-03	COM	50,000
VESTERGAARD, PER B	ASSAY OF STEROIDS IN URINE AND BLOOD	RO1AM 04262-08	END	15,481
VESTERGAARD, PER B	RESEARCH OF AUTOMATED CHROMATOGRAPHY	RO1GM 11940-05	MCHB	20,952

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INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRG	DOLLARS
NEW YORK—(CON.)				
INSTITUTION TOTAL	8	367,208		
POTSDAM				
CLARKSON COLLEGE OF TECHNOLOGY				
DONARUMA, L GUY	SYNTHETIC BIOLOGICALLY ACTIVE POLYMERS	RO1AI 06662-04	MCHA	18,394
KRATOCHVIL, JOSIP P	LIGHT SCATTERING OF LIPOPROTEINS AND LIPID MICELLES	RO1GM 13010-03	BBCB	16,560
POPP, FRANK D	INDOLE DERIVATIVES AS POTENTIAL ANTINEOPLASTIC AGENTS	RO1CA 10345-02	MCHB	24,013
ROSENTHAL, DONALD	REACTIONS CATALYZED IN CONCENTRATED SALT SOLUTIONS	RO1GM 12086-05	BBCB	15,616
VASKA, LAURI	OXYGEN-CARRYING METAL COMPLEXES	RO1HE 09678-04	MCHB	57,456
INSTITUTION TOTAL	5	132,039		
POUGHKEEPSIE				
VASSAR COLLEGE				
COUNARIS, ANNE D	STUDY OF DECARBOXYLASE FROM PIG HEART DEHYDROGENASE	RO1AM 12180-01	BIO	23,418
INSTITUTION TOTAL	1	23,418		
ROCHESTER				
EASTMAN DENTAL CENTER				
BIBBY, BASIL G	GENERAL RESEARCH SUPPORT GRANT	SO1FR 05548-06	NSS	59,184
BUONOCORE, MICHAEL G	DENTAL RESTORATIVE MATERIALS	RO1DE 02407-03	DEN	41,409
GILMOUR, MARION N	GROWTH CONDITIONS AND METABOLISM OF AN ORAL LEPTOTRICHIA	RO1DE 00370-12	DEN	18,720
GILMOUR, MARION N	ACID PRODUCTION AND THE DENTAL PLAQUE	RO1DE 02452-02	DEN	33,268
HOWITT, JACK W	DENTAL ATTITUDE FORMATION AND PREVENTIVE CARE UTILIZATION	RO1DH 00062-02	CPR	32,023
LITTLE, MARGUERITE F	NATURE OF AGE CHANGES IN ENAMEL	RO1DE 02011-05	DEN	44,516
SUBTELNY, J DANIEL	NORMAL & CLEFT PALATE SPEECH - PHARYNGEAL FLAP PROCEDURE	PO1DE 01837-05	DEP	75,273
ZANDER, HELMUT A	BASIC STUDIES BEARING ON PERIODONTAL DISEASE	PO1DE 01648-06	DEP	113,680
INSTITUTION TOTAL	8	418,073		
ROCHESTER UNIVERSITY OF				
ABOOD, LEO G	NEUROCHEMICAL - BIOELECTRIC CORRELATES IN NERVE	RO1NB 05856-03S1	NEUB	1,909
ABOOD, LEO G	NEUROCHEMICAL BIOELECTRIC CORRELATES IN NERVE	RO1NB 05856-04	NEUB	58,135
ALLEN, PETER Z	IMMUNOCHEMICAL STUDIES ON EQUINE ANTIBODIES	RO1AI 06534-04	ALY	18,931
ALTMAN, KURT I	EFFECT OF RADIATION ON GLUCOSAMINOGLYCANS IN BONE	RO1AM 11944-01	RAD	35,336
AU, WILLIAM Y	BIOASSAY FOR THYROCALCITONIN	RO1AM 12309-01	GMB	31,470
BAKEMEIER, RICHARD F	EFFECTS OF STEROID HORMONES ON IMMUNE MECHANISMS	RO1AI 04841-06	ALY	14,159
BAKEMEIER, RICHARD F	STUDIES ON HODGKINS DISEASE A POSSIBLE MURINE MODEL	RO1CA 08752-03	PTHB	25,371
BARTLETT, JOHN W	ANALYTIC STUDIES OF HORMONE DISPOSITION PROCESSES	RO1AM 11706-01	MET	19,251
BOYNTON, ROBERT M	PSYCHOPHYSIOLOGICAL AND OPTICAL STUDIES OF VISION	RO1NB 00624-15	VIS	55,763
BRANDRISS, MICHAEL W	CHARACTERIZATION OF TRANSFER FACTOR	RO1AI 07352-03	ALY	16,029
BREESE, BURTTIS B	STREPTOCOCCAL INFECTION IN CHILDREN	RO1HD 00287-09	ALY	24,833
BRYSON, MICHAEL F	A METABOLIC AND ENDOCRINE STUDY OF GROWTH FAILURE	RO1HD 01144-03	HED	19,736
BULLOCK, WARD E	IN VITRO STUDY OF DELAYED HYPERSENSITIVITY IN LEPROSY	R22AI 07964-02	SSS	57,689
CAMPBELL, ALLAN M	GENETICS OF PHAGE AND PROPHAGE LAMBDA	RO1AI 02862-09	GEN	32,972
CARSTENSEN, EDWIN L	ELECTRICAL & ACOUSTICAL STUDIES OF CELLS	RO1GM 09933-07	SSS	41,410
CASPARI, ERNST W	GENE ACTION ON EYE PIGMENT DEVELOPMENT OF EPHESTIA	RO1GM 12715-04	GEN	20,431
CHRISTENSEN, J ROGER	A STUDY OF LYSOGENIC IMMUNITY	RO1AI 02781-09	GEN	25,387
COHEN, JULES	CARDIAC PROTEIN SYNTHESIS AND HYPERTROPHY	RO1HE 07951-05	PC	34,147
COHEN, JULIUS J	UTILIZATION OF SUBSTRATES BY THE KIDNEY, IN VIVO	RO1AM 03602-09	PHY	41,179
COLEMAN, JAMES R	STUDY OF CELLULAR STRUCTURE BY ELECTRON MICROSCOPY	RO1CA 03589-09S1	PTHB	2,089
COLEMAN, JAMES R	STUDY OF CELLULAR STRUCTURE BY ELECTRON MICROSCOPY	RO1CA 03589-10	PTHB	15,806
COLEMAN, PAUL D	CORTICAL DENDRITES	RO1NB 07870-01	NEUA	21,786
COLGAN, FRANK J	LUNG VOLUME AND BREATHING MECHANICS DURING ANESTHESIA	RO1HE 09609-04	SGYB	15,081
CRAIG, ALBERT B JR	THERMAL REGULATION DURING WATER IMMERSION OF MAN	RO1HE 09676-04	AFY	48,743
DOTY, ROBERT W	LEARNING, PERCEPTION AND NEURAL INTEGRATION	RO1NB 03606-06S1	NEUA	4,345
DOTY, ROBERT W	LEARNING, PERCEPTION AND NEURAL INTEGRATION	RO1NB 03606-07	NEUA	63,000
DOUNCE, ALEXANDER L	BIOCHEMISTRY OF NUCLEIC ACIDS AND THE CELL NUCLEUS	RO1CA 00994-18S1	PC	566
DOUNCE, ALEXANDER L	BIOCHEMISTRY OF THE CELL NUCLEUS	RO1CA 00994-19	PC	46,729
EMMEL, VICTOR M	KIDNEY CHANGES RELATED TO VITAMIN E DEFICIENCY	RO1AM 00903-12S1	NTN	6,163
FENN, WALLACE O	EFFECTS OF OXYGEN, INERT GASES AND PRESSURE	RO1GM 12791-04	PHY	11,905
FORBES, GILBERT B	CHEMICAL STUDIES IN GROWTH	RO1HD 01692-03	AFY	31,891
FRANCE, ROBERT R	BIOMEDICAL SCIENCES SUPPORT	SO5FR 07069-03	NSS	81,897
FREEMAN, RICHARD B	COOPERATIVE STUDY OF RENAL DISEASE AND HYPERTENSION	RO1HE 11938-01	SRC	12,847
GANGAROSA, LOUIS P	SYSTEMIC FACTORS ON THE BIOLOGY OF PERIODONTAL TISSUES	RO1DE 02602-02	DEN	18,662
GINSBURG, JACK M	BIOLOGICAL TRANSPORT OF IONS	RO1AM 05561-07	PHY	11,705
GLASGOW, LOWELL A	INTERFERON PRODUCTION BY PHAGOCYTES IN VIRAL INFECTIONS	RO1AI 06388-04	VR	44,149
GOLDSTEIN, DAVID A	APPLICATION OF COMPUTERS IN MEDICAL RESEARCH	PO7FR 00220-06	COM	82,164
HALL, THOMAS C	COOPERATIVE CANCER CHEMOTHERAPY STUDY EASTERN GROUP	RO1CA 11083-01	SRC	42,554
HANSHAW, JAMES B	STUDIES ON CYTOMEGALIC INCLUSION DISEASE	RO1AI 04310-07	VR	13,327
HARE, JOHN D	CELL PROLIFERATION AND VIRUS INFECTION	RO1CA 07239-05	VR	37,679
HEGGENESS, FRANKLIN W	NEONATAL NUTRITION AND MATURATION OF THE RAT	RO1HD 00009-05	HED	10,006
HOCH, GEORGE E	PHOTOSYNTHESIS AND RESPIRATION	RO1GM 13470-03	BBCB	21,612
HODGE, HAROLD C	CENTER FOR TOXICOLOGICAL RESEARCH AND TRAINING	PI1GM 15190-02	PTR	365,992
HODGE, HAROLD C	EFFECT OF FLUORIDE ON MINERALIZATION	RO1AM 11992-01	GMB	28,056
HOLLANDER, CHARLES S	PHYSIOLOGICAL SIGNIFICANCE OF THYROID HORMONE	RO1AM 10670-02	END	28,472

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INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRG	DOLLARS
NEW YORK—(CON.)				
HONIG, CARL R	BIOCHEMICAL AND BIOPHYSICAL BASIS OF INOTROPY	RO1HE 03290-11	CVB	37,987
HOYER, LEON W	THE SIGNIFICANCE OF ERYTHROCYTE ANTIGEN SITE DENSITY	RO1HE 11841-01	HEM	32,552
IZZO, JOSEPH L	EXPERIMENTAL STUDIES WITH GLUCAGON AND INSULIN	RO1AM 03556-09	MET	48,018
IZZO, JOSEPH L	DIABETES LITERATURE RETRIEVAL PROJECT	RO1AM 06495-07	SSS	19,212
JACOX, RALPH F	EXPERIMENTAL CLINICAL INVESTIGATION PROGRAM IN RA	RO1AM 12039-02	SSS	36,164
JAEINKE, JOHN R	PATHOGENESIS OF ACUTE RENAL FAILURE	RO1HE 07966-05	CVB	21,921
JOHANSEN, ERLING	E M AND CHEMICAL STUDIES OF CARIOUS LESIONS	RO1DE 00689-10S1	DEN	46,394
JOYNT, ROBERT J	FACTORS INFLUENCING OSMOSENSITIVE UNITS	RO1NB 07573-01	NEUB	28,186
KAMM, DONALO E	RENAL GLUCOSE AND AMMONIA PRODUCTION	RO1AM 11023-02	GMA	19,173
KAMPMIEIER, JACK A	FREE RADICAL REACTIONS OF ORGANIC SULFIDES	RO1CA 06535-06	MCHB	35,193
KAYE, JEROME S	FINE STRUCTURE OF NUCLEI DURING SPERMATOGENESIS	RO1GM 09747-05	MBY	24,651
KEUTMANN, E HENRY	CHROMATOGRAPHY AND SPECTROPHOTOMETRY OF STEROIDS	RO1AM 08567-17	END	32,064
KNIGGE, KARL M	NEURAL CONTROL OF THYROID AND ADRENAL FUNCTION	RO1AM 10002-04	END	45,110
KRIVSHENKO, JAKOV D	INTERACTION OF NON-HOMOLOGOUS CHROMOSOMES	RO1GM 03934-15	GEN	32,419
LAPHAM, LOWELL W	STUDIES OF TETRAPLOID DNA STATUS OF PURKINJE CELLS	RO1NB 07100-02	CBY	16,096
LEDDY, JOHN P	GAMMA GLOBULIN STRUCTURE IN HUMAN DISEASE	RO1AM 09810-03	IMB	47,267
LERMAN, SIDNEY	THE METABOLISM OF THE NORMAL AND CATARACTOUS LENS	RO1NB 03081-08	VIS	35,059
MANILOFF, JACK	ULTRASTRUCTURE AND LIFE CYCLE OF PPLO	RO1AI 07939-02	BM	21,537
MARINETTI, GUIDO V	BIOCHEMISTRY AND FUNCTION OF COMPLEX LIPIDS	RO1HE 02063-13S1	PC	807
MARINETTI, GUIDO V	BIOCHEMISTRY AND FUNCTION OF COMPLEX LIPIDS	RO1HE 02063-14	PC	42,000
MARQUIS, ROBERT E	RESPIRATION-COUPLED AMINO ACID TRANSPORT	RO1AM 08990-04	BIO	14,378
MARX, HERBERT J	CARDIOVASCULAR REGULATORY DYNAMICS	RO1HE 11531-01	CVA	36,960
MASON, WM B	DETECTION OF THYROID HORMONES BY GAS CHROMATOGRAPHY	RO1AM 10244-02S1	END	5,336
MC DONALD, DONALD F	COOPERATIVE STUDY OF RENOVASCULAR HYPERTENSION	RO1HE 06657-06S1	SRC	2,769
MC DONALD, DONALD F	COOPERATIVE STUDY OF RENOVASCULAR HYPERTENSION	RO1HE 06657-07	SRC	30,695
MILLER, HARRY C	COOPERATIVE STUDY GROUP FOR URINARY BLADDER CANCER	RO1CA 07498-05	SRC	20,461
MILLER, LEON L	NET SYNTHESIS OF PLASMA PROTEINS BY PERFUSED LIVER	RO1AM 11029-02	MET	29,939
MORGAN, HERBERT R	LATENCY AND VIRAL NEOPLASIA	RO1CA 05206-08	VR	93,346
MOSS, ARTHUR J	CATECHOLAMINES AND CARDIOVASCULAR DYSFUNCTION	RO1HE 10251-02	PHRA	35,108
ONLEY, JUDITH W	PSYCHOPHYSICAL STUDIES OF VISUAL SENSITIVITY	RO1NB 04886-06	VIS	25,347
ORBISON, J LOWELL	GENERAL CLINICAL RESEARCH CENTER	MO1FR 00044-07S1	CLR	4,652
ORBISON, J LOWELL	GENERAL CLINICAL RESEARCH CENTER	MO1FR 00044-08	CLR	305,703
ORBISON, J LOWELL	A STUDY OF EXPERIMENTAL LATHYRISM	RO1AM 08872-09	PTHA	34,078
ORBISON, J LOWELL	GENERAL RESEARCH SUPPORT GRANT	SO1FR 05403-07	NSS	426,483
PANNER, BERNARD J	STUDIES OF HYPOKALEMIC NEPHROPATHY	RO1AM 11720-01	PTHA	21,600
PECK, WILLIAM A	HORMONAL REGULATION OF BONE CELL METABOLISM	RO1AM 09865-03	MET	36,416
PENNEY, DAVID P	FINE STRUCTURAL STUDIES OF ADRENOCORTICAL ENZYMES	RO1AM 09561-04	PTHA	26,465
PFADLER, MARJORIE C	SELF INSTRUCTION FOR STROKE VICTIMS	RO2NU 00250-02	NR	7,992
RAISZ, LAWRENCE G	PARATHYROID AND BONE METABOLISM	RO1AM 06205-07	MET	53,349
RAVIN, ARNOLD W	TRANSFORMATIONS IN PNEUMOCOCCUS	RO1AI 00727-14	GEN	37,372
REICHLIN, SEYMOUR	MECHANISMS OF NEURAL CONTROL OF METABOLIC FUNCTIONS	RO1NB 04051-07S1	NEUA	13,874
REICHLIN, SEYMOUR	MECHANISMS OF NEURAL CONTROL OF METABOLIC FUNCTIONS	RO1NB 04051-08	NEUA	78,025
REITER, RUSSEL J	PINEAL-ENDOCRINE RELATIONSHIPS IN RODENTS	RO1HD 02937-02	REB	17,987
RICHTER, GOETZ W	IRON IN CELL PATHOLOGY	RO1AM 12381-01	PTHB	116,955
RICHTER, GOETZ W	HEMOGLOBIN, HEMOSIDERIN AND CELLULAR CONSTITUENTS	RO1AM 12391-01	PTHB	14,127
RITTERSON, ALBERT L	HOST-PARASITE RELATIONSHIPS IN TRICHINOSIS	RO1AI 01042-13	TMP	30,143
ROB, CHARLES G	EXTRACRANIAL ARTERIAL OCCLUSION	RO1HE 07922-05A1	SRC	37,660
ROB, CHARLES G	BIOCHEMISTRY OF VASCULAR TRAUMA AND DEGENERATION	RO1HE 10213-03	PTHA	44,996
RUBIN, PHILIP	VASCULAR PATHOPHYSIOLOGY OF IRRADIATED TISSUES	RO1CA 06630-07S4	RAD	4,137
SAMEROFF, ARNOLD J	ORGANIZATION OF COGNITION IN INFANCY	RO1HD 03454-01	DBR	40,740
SAMLOFF, I MICHAEL	IMMUNOLOGIC ASPECTS OF GASTRITIS	RO1AM 08956-03S1	IMB	13,403
SCHALCH, DON S	PITUITARY AND PANCREATIC HORMONE REGULATION	RO1AM 08943-04	END	58,052
SCHENK, ERIC A	PATHOLOGY OF EXPERIMENTAL AND CLINICAL CARDIOMYOPATHIES	RO1HE 10465-02	PTHA	30,063
SCHENK, ERIC A	ETIOLOGY OF SPONTANEOUS AORTIC LESIONS	RO1HE 11285-02	PTHA	19,172
SCHWARTZ, ROBERT H	URINARY GLYCOPROTEIN IN CYSTIC FIBROSIS AND NEWBORNS	RO1AM 12667-01	GMA	21,960
SHERMAN, FRED	THE GENETIC CONTROL OF CYTOCHROME C IN YEAST	RO1GM 12702-04	GEN	28,151
SMITH, WILBUR K	RELATIONSHIP OF FRONTAL EYE FIELDS TO VISUAL CORTEX	RO1NB 06457-02	VIS	39,451
SNIDER, RAY S	INTEGRATED APPROACHES TO NEUROBIOLOGICAL PROBLEMS	PO1NB 06827-02	NBPA	102,117
SNIDER, RAY S	CEREBELLAR INFLUENCES ON CEREBRAL ACTIVITY	RO1NB 04592-06	NEUB	37,505
SOBELL, HENRY M	PURINE-PYRIMIDINE CRYSTALLINE COMPLEXES	RO1GM 13939-02S1	BBCA	35,000
SOBELL, HENRY M	PURINE-PYRIMIDINE CRYSTALLINE COMPLEXES	RO1GM 13939-03	BBCA	30,796
TANAKA, RYO	BIOCHEMICAL MECHANISM OF ION TRANSPORT IN NERVE MEMBRAN	RO1NB 07686-01	NEUB	16,875
TEREPKA, A RAYMOND	DYNAMIC ASPECTS OF SKELETAL METABOLISM	RO1AM 08271-05	NTN	14,142
TOWNES, PHILIP L	STUDIES OF TRYPSINOGEN DEFICIENCY DISEASE	RO1AM 09247-03	MET	15,013
TROUP, STANLEY B	PLATELET CHEMISTRY AND METABOLISM	RO1HE 04167-09	HEM	36,330
TURNER, MICHAEL D	MEASUREMENT OF ENZYME ACTIVITIES IN BODY FLUIDS	RO1CA 09546-11	PTHB	79,623
VAUGHAN, JOHN H	STUDY OF THE RHEUMATOID FACTOR AND GAMMA GLOBULINS	RO1AM 02443-11	GMA	69,857
VISHNIAC, WOLF	METABOLISM OF AUTOTROPHIC ORGANISMS	RO1AI 04801-07	PC	18,794
WATERHOUSE, CHRISTINE	STUDY OF HEPATIC SYNTHESIS & RELEASE OF TRIGLYCERIDE	RO1CA 07123-05	GMA	16,247
WAX, SANDOR H	RADIOISOTOPE EVALUATION OF RENAL HYPERTENSION	RO1HE 09173-04	RAD	12,729
WEED, ROBERT I	STRUCTURE-FUNCTION RELATIONS IN BLOOD CELL MEMBRANES	RO1HE 06241-08	HEM	38,486
YU, PAUL N	PULMONARY CIRCULATION AND VENTRICULAR FUNCTION	RO1HE 03966-10	CVB	48,478
ZAROFF, LAWRENCE I	HYPERBARIC OXYGENATION IN A CYANOTIC MODEL	RO1HE 11174-02	S8YA	15,562

TABLE 2—RESEARCH GRANTS, BY AREA, INSTITUTION, AND PRINCIPAL INVESTIGATOR

INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRG	DOLLARS
NEW YORK—(CON.)				
INSTITUTION TOTAL	118	4,708,073		
ROCKVILLE CENTRE				
MERCY HOSPITAL				
WESOLOWSKI, SIGMUND A	BLOOD VESSEL REPLACEMENT DEVELOPMENT AND SCREENING	RO1HE 11379-01S1	SGYB	7,630
WESOLOWSKI, SIGMUND A	BLOOD VESSEL REPLACEMENT DEVELOPMENT AND SCREENING	RO1HE 11379-02	SGYB	67,957
INSTITUTION TOTAL	2	75,587		
ST BONAVENTURE				
ST. BONAVENTURE UNIVERSITY				
JACQUES, FELIX A	ENVIRONMENTAL EFFECTS ON BLOOD AND OTHER TISSUES	RO1HE 09445-03	HEM	12,570
INSTITUTION TOTAL	1	12,570		
SARANAC LAKE				
TRUDEAU INSTITUTE				
COLLINS, FRANK M	ROLE OF HYPERSENSITIVITY IN ANTITUBERCULOUS IMMUNITY	R22AI 07809-02	SSS	57,766
MACKANESS, GEORGE B	CELLULAR DEFENSE MECHANISMS	RO1AI 07015-03	ALY	84,420
MC GREGOR, DOUGLAS D	IMMUNOLOGICAL ACTIVITY OF LYMPHOCYTES	RO1AI 08642-01	IMB	16,929
VOLKMAN, ALVIN	STUDIES ON MONONUCLEAR LEUKOCYTES AND MACROPHAGES	RO1AM 11038-02	HEM	34,750
INSTITUTION TOTAL	4	193,865		
WILL ROGERS MEMORIAL HOSPITAL				
FITZPATRICK, MARTIN J	BIOCHEMICAL CHANGES IN PULMONARY CONNECTIVE TISSUE	RO1HE 09458-03S1	PTHB	2,160
FITZPATRICK, MARTIN J	BIOCHEMICAL CHANGES IN PULMONARY CONNECTIVE TISSUE	RO1HE 09458-04	PTHB	12,550
INSTITUTION TOTAL	2	14,710		
SCHENECTADY				
UNION UNIVERSITY, UNION COLLEGE				
MIROFF, GEORGE	ISOLATION AND IDENTIFICATION OF THE MAMMARY TUMOR AGENT	RO1CA 10559-01S1	VR	11,134
ROTH, WILLARD D	THE ROLE OF THE PINEAL IN NEUROENDOCRINE RHYTHMS	RO1AM 12425-01	END	15,119
ROTH, WILLARD D	THE ROLE OF THE PINEAL IN NEURO-ENDOCRINE RHYTHMS	RO1AM 12425-02	END	30,038
INSTITUTION TOTAL	3	56,291		
SOUTHAMPTON				
LONG ISLAND UNIVERSITY				
BURKE, WILLIAM T	METABOLIC CONTROLS IN LIVER DURING CARCINOGENESIS	RO1CA 10560-02	PC	34,756
INSTITUTION TOTAL	1	34,756		
SPRINGVILLE				
NEW YORK STATE DEPARTMENT OF HEALTH				
AMBRUS, JULIAN L	ENDOCRINE AND DRUG EFFECT ON THROMBOSIS	RO1HE 11591-01	HEM	26,937
INSTITUTION TOTAL	1	26,937		
STONY BROOK				
NEW YORK STATE UNIVERSITY OF AT STONY BROOK				
CIRILLO, VINCENT P	THE ROLE OF MEMBRANE CARRIERS IN SUGAR TRANSPORT	RO1GM 12743-05	BIO	23,818
FRIEDMAN, HAROLD L	MEASUREMENT OF IONIC SOLVATION ENTHALPIES	RO1NB 06402-02	BBC	25,341
GLASS, H BENTLEY	BIOMEDICAL SCIENCES SUPPORT	S05FR 07067-03	NSS	42,947
KOSOWER, EDWARD M	CHEMISTRY OF PYRIDINIUM RINGS	RO1GM 09133-06	MCHB	39,342
MOOS, CARL	ROLE OF BOUND NUCLEOTIDE IN MUSCLE CONTRACTION	RO1GM 10249-05	BIO	33,017
RAMIREZ, FAUSTO	OXIDATION IN PHOSPHORUS, NITROGEN, AND SULFUR SYSTEMS	RO1CA 04769-08S1	MCHB	557
RAMIREZ, FAUSTO	OXIDATION IN PHOSPHORUS, NITROGEN, AND SULFUR SYSTEMS	RO1CA 04769-09	MCHB	41,525
RILEY, MONICA	PHYSIOLOGICAL INTERACTIONS OF NUCLEIC ACIDS	RO1GM 14360-02	BIO	38,659
SIMPSON, MELVIN V	MITOCHONDRIA NUCLEIC ACID SYNTHESIS AND ROLE OF DNA	RO1AM 11317-02	BIO	36,022
INSTITUTION TOTAL	9	281,228		
SYRACUSE				
NEW YORK STATE UNIVERSITY OF-COL OF FORESTRY AT SYRACUSE				
SCHUERCH, CONRAD	STEREOSPECIFIC SYNTHESIS OF POLYSACCHARIDES	RO1GM 06168-10	MCHA	34,944
SMID, JOHANNES	BINDING OF LOW MOLECULAR WEIGHT SPECIES TO MACROMOLECULE	RO1GM 15965-01	BBCB	33,207
INSTITUTION TOTAL	2	68,151		
NEW YORK STATE UNIVERSITY OF-UPSTATE MEDICAL CENTER				
ABILDSKOV, J A	EXPERIMENTAL AND CLINICAL ELECTROCARDIOGRAPHY	RO1HE 03241-10	CVA	27,870
AUCHINCLOSS, J HOWLAND, JR	ANALYSIS OF THE BREAKING POINT IN HEART DISEASE	RO1HE 02800-12	AFY	42,704
BECKER, ROBERT O	THE ELECTRICAL PROPERTIES OF BONE	RO1AM 07626-05	SGYB	20,363
BELL, EDWARD G	LABELED ASSOCIATION COLLOIDS FOR IMAGING APPLICATIONS	RO1GM 16039-01	RAD	21,960
BORTOFF, ALEXANDER	COORDINATION OF INTESTINAL SMOOTH MUSCLE ACTIVITY	RO1AM 06958-06	PHY	33,033
BRIN, MYRON	NUTRITIONAL STATUS BY BLOOD ENZYMES	RO1AM 03127-09	NTN	49,845
CAMERON, IVAN L	CELL REPRODUCTION AND ITS CONTROL IN THE BODY	RO1GM 14442-02	CBY	14,436
DOUGHERTY, ROBERT M	STUDIES OF AVIAN LEUKOSIS/SARCOMA VIRUSES	RO1CA 10148-02	VR	51,982
EICH, ROBERT H	HEMODYNAMICS IN LABILE HYPERTENSION	RO1HE 05531-08	CVA	11,566
EICH, ROBERT H	FACTORS IN THE INITIAL CARDIAC RESPONSE TO EXERCISE	RO1HE 09363-03S1	CVA	550
FALOOD, WILLIAM W	STUDIES OF MALABSORPTIVE DISEASE	RO1AM 05375-07	GMA	45,175
FARAH, ALFRED E	CORRELATION OF HISTOCHEMICAL CHANGES IN RENAL FUNCTION	RO1AM 02232-10	PTHA	20,505

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INVESTIGATOR	PROJECT TITLE	GRANT NO	IRG	DOLLARS
NEW YORK—(CON.)				
FARAH, ALFRED E	RENAL MEMBRANE CARRIER FOR ORGANIC COMPOUNDS	RO1HE 02835-12	PHRA	47,226
GARCIA, ALFREDO M	QUANTITATIVE CYTOCHEMISTRY OF HEMOPOIETIC ORGANS	RO1AM 10016-03	HEM	16,308
GARDNER, LYTT I	STUDIES OF HORMONAL METABOLISM IN INFANTS AND CHILDREN	RO1AM 02504-10	ENO	25,977
GULLICK, HERBERT D	ROLE OF THE PANCREAS IN REGULATION OF BLOOD LIPIDS	RO1HE 06891-06A1	MET	2,165
HOLZ, GEORGE G. JR	LIPIDS OF PROTOZOA	RO1AI 05802-05	TMP	45,436
HUGHES, EDWARD C	CHROMOSOME CONSTITUTION OF HUMAN ENDOMETRIUM	RO1HO 02523-02	REB	24,569
JONES, DAVID B	THE FINE STRUCTURE OF DISEASED GLOMERULI	RO1HE 04300-10	PTHU	16,399
KING, ROBERT B	STUDY OF TRIGEMINAL NERVE POTENTIALS	RO1NB 01503-11	NEUA	29,685
KINTER, WILLIAM B	PHYSIOLOGY AND MORPHOLOGY OF CELL TRANSPORT	RO1AM 06479-07	CBY	59,835
KLEINFELD, RUTH G	METABOLISM OF SCIARA SALIVARY GLAND CHROMOSOMES	RO1GM 12191-05	GEN	21,347
MEYER, FRANZ D	STUDIES OF THE LIPID METABOLISM IN PARASITIC HELMINTHS	RO1AI 07486-02	TMP	22,756
MOZELL, MAXWELL M	THE ELECTROPHYSIOLOGY OF OLFACTORY DISCRIMINATION	RO1NB 03904-05S1	PHY	601
MOZELL, MAXWELL M	THE ELECTROPHYSIOLOGY OF OLFACTORY DISCRIMINATION	RO1NB 03904-06	PHY	19,868
MUELLER, JUSTUS F	STUDIES ON SPARGANOSIS AND CESTODE BIOLOGY	RO1AI 01876-11	TMP	10,050
MUELLER, WILLIAM J	RESEARCH DATA PROCESSING CENTER	PO7FR 00353-02	COM	298,682
MUELLER, WILLIAM J	INVESTIGATION OF ANALOG-DIGITAL DATA REDUCTION	RO1GM 11413-05	COM	30,859
NELSON, DOUGLAS A	MICROANGIOPATHIC HEMOLYTIC ANEMIA	RO1HE 11334-02	HEM	23,676
PRESTON, JAMES B	SUPRASEGMENTAL INFLUENCES ON SPINAL MOTONEURONS	RO1NB 02957-08	PHY	45,223
RICHERT, DAN A	PORPHYRIN METABOLISM AND THYROID HORMONE METABOLISM	RO1CA 01852-16	MET	40,075
RICHMOND, JULIUS B	GENERAL CLINICAL RESEARCH CENTER	MO1FR 00085-06	CLR	219,465
ROBINSON, JOSEPH D	CHANGES IN BRAIN MICROSOMAL STRUCTURE AND COMPOSITION	RO1NB 05430-04	MBY	36,092
ROGERS, LLOYD S	TISSUE OXYGEN STUDIES	RO1HE 06052-08	SCYA	20,851
ROSS, GILBERT S	EFFECT OF BRAIN LESIONS ON PAIN PERCEPTION	RO1NB 05859-04	NEUB	18,865
RUEGAMER, WILLIAM R	THYROXINE ANALOGS AND CHOLESTEROL METABOLISM	RO1AM 06292-07	ENO	29,120
SCHROEDER, EDWARD T	RENAL METABOLISM AND HEMODYNAMICS IN CIRRHOSIS	RO1HE 10775-02	CVB	14,899
STREETEN, DAVID H	STUDIES ON THE PATHOGENESIS OF IDIOPATHIC EDEMA	RO1AM 04488-08	GM	45,196
TEPPERMAN, JAY	ENZYME ADAPTION IN MAMMALIAN CELLS	RO1AM 05410-07	PC	53,820
VOORHES, MARY L	CATECHOLAMINE METABOLISM IN CHILDREN	RO1CA 06312-07	PHRB	18,854
WEINER, IRWIN M	BIOCHEMICAL ASPECTS OF RENAL ELECTROLYTE TRANSPORT	RO1HE 10595-03	PHY	52,824
WESTERFELD, W W	GENERAL CLINICAL RESEARCH CENTER - ADULT	MO1FR 00229-03	CLR	382,404
WESTERFELD, W W	THYROID AND ANTITHYROTOXIC STUDIES	RO1AM 09106-04	ENO	15,000
WESTERFELD, WILFRED W	GENERAL RESEARCH SUPPORT GRANT	SO1FR 05402-07	NSS	223,281
YNTEMA, CHESTER L	STUDIES ON MORPHOGENESIS OF THE TURTLE	RO1HD 03484-02	CB	21,536
INSTITUTION TOTAL	45	2,272,933		
SYRACUSE UNIVERSITY				
AHLBERG, CLARK D	BIOMEDICAL SCIENCES SUPPORT	S05FR 07068-03	NSS	69,772
ARGYRIS, BERTIE F	ACQUIRED TOLERANCE IN MICE	RO1AM 06448-06	IMB	25,860
BAULE, GERHARD M	DETECTION OF THE MAGNETIC FIELD OF THE HEART	RO1HE 06971-06S1	PHY	7,160
BOCK, EDWIN A	FLUORIDATION CASE STUDIES - IRELAND AND GREAT BRITAIN	RO1DH 00108-01S1	SSS	9,577
DITTMER, DONALD C	HYDROGEN TRANSFERS FROM DIHYDRONICOTINAMIDE	RO1AM 07770-05	MCHA	22,692
DITTMER, DONALD C	CHEMISTRY OF THIACYCLOBUTENE DERIVATIVES	RO1CA 08250-04	MCHB	18,750
DUNHAM, PHILIP B	IONIC REGULATION OF CONTRACTILE VACUOLE	RO1NB 08089-01	PHY	24,447
ECKERT, ROGER O	BIOELECTRIC AND IONIC CELLULAR CONTROL MECHANISMS	RO1NB 03664-07	PHY	25,660
FLORINI, JAMES R	RNA AND PROTEIN SYNTHESIS IN REPAIR OF HEART INJURY	RO1HE 11551-01	PC	48,385
FONDY, THOMAS P	GLYCEROLPHOSPHATE DEHYDROGENASE IN CONTROL OF CANCER	RO1CA 10250-02	MCHA	31,527
HUNTER, W D RUSSELL	PHYSIOLOGICAL VARIATION AND ECOLOGY OF MOLLUSCS	RO1GM 11693-05	PHY	34,350
JACKSON, ROBERT W	SYNTHESIS AND REGULATION OF TEICHOIC ACIDS	RO1AI 07361-01	MB	22,723
LEBOWITZ, JACOB	HEMOGLOBIN SUBUNIT ASSOCIATIONS	RO1HE 11384-02	BBCA	19,584
LEVY, H RICHARD	MECHANISMS OF CONTROL OF ENZYMATIC ACTIVITY	RO1AM 07720-05	PC	38,977
MANWELL, REGINALD D	TRANSMISSION OF AVIAN MALARIAS LETHALITY OF P. PINOTTII	RO1AI 05182-06	TMP	36,233
MC FEE, RICHARD	THE NORMALIZED ELECTROCARDIOGRAM	RO1HE 08607-05	CVB	50,221
MERRICK, JOSEPH M	METABOLISM OF POLY-B-HYDROXYBUTYRIC ACID BY BACTERIA	RO1AI 07176-03	MB	22,552
MILKMAN, ROGER D	INVESTIGATION OF POLYGENES IN DROSOPHILA	RO1GM 07810-08	GEN	25,410
MIRON, MURRAY S	AURAL CODING IN LANGUAGE PROCESSING	RO1HD 02417-02	CMS	41,850
ROTHENBERG, MARTIN	GLOTTAL AIR FLOW IN SPEECH	RO1NB 07303-02	CMS	17,715
SAGE, MARTIN L	MAGNETIC OPTICAL ROTATION AND CIRCULAR DICHROISM	RO1GM 15656-01	BBCA	35,456
STURR, JOSEPH F	SPATIO-TEMPORAL FACTORS IN VISION	RO1NB 06618-03	VIS	23,808
THIELE, VICTORIA F	BIOCHEMICAL CHANGES IN PYRIDOXINE DEFICIENCY	RO1AM 09540-03	NTN	13,016
ZWISLOCKI, JOZEF J	SENSORY PROCESSES	RO1NB 03950-06	CMS	171,081
INSTITUTION TOTAL	24	836,806		
SYRACUSE UNIVERSITY RESEARCH CORPORATION				
MOORE, RICHARD B	EFFECTS OF PESTICIDES ON AMINO ACID BIOSYNTHESIS	RO1GM 14900-02	TOX	43,890
NAIR, JOHN H. III	SYNERGISM OF PESTICIDES AND DETERGENTS	RO1ES 00213-02	TOX	54,653
SZABO, KAROLY	STRUCTURE - ACTIVITY OF CARBAMATE INSECTICIDES	RO1GM 14800-02	TOX	53,724
ZWEIG, GUNTER	MECHANISM OF PHOTOSYNTHESIS INHIBITION BY HERBICIDES	RO1ES 00223-03	TOX	63,733
INSTITUTION TOTAL	4	216,000		
TROY				
RENSSELAER POLYTECHNIC INSTITUTE				
FERRIS, JAMES P	THE PHOTOCHEMICAL SYNTHESIS OF HETEROCYCLIC COMPOUNDS	RO1GM 15915-01	MCHA	14,720
JOHNSON, WILLIAM H	PARAMYOSIN AND CONTRACTION OF MUSCLES	RO1HE 07751-06	PHY	29,554
KATZ, J LAWRENCE	AN INTERDISCIPLINARY STUDY OF DENTAL MATERIALS	PO1OE 02336-03	DEP	124,027

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INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRG	DOLLARS
NEW YORK—(CON.)				
LANDAU, JOSEPH V	A PRESSURE-TEMPERATURE STUDY OF CELLS	RO1GM 16205-01	CBY	15,418
POTTS, KEVIN T	FUSED HETEROCYCLES AS POTENTIAL ANTICANCER AGENTS	RO1CA 08495-03	MCHB	46,713
POTTS, KEVIN T	INDOLE ALKALOIDS AS POTENTIAL HYPOTENSIVE AGENTS	RO1HE 09991-03	MCHB	12,048
SHUSTER, WILLIAM W	BIOMEDICAL SCIENCES SUPPORT	S05FR 07104-02	NSS	50,280
STRONG, ROBERT L	TRIPLET OPTICAL ROTATORY DISPERSION OF EXCITED STATES	RO1GM 12590-03	BBCA	28,222
WALKER, ROLAND	CYTOLOGY OF VIRAL NEOPLASMS IN FISH	RO1CA 05790-07	VR	22,210
WILSON, DWIGHT E	INVESTIGATION OF NEWCASTLE DISEASE VIRUS GROWTH	RO1AI 07116-02	VR	18,471
INSTITUTION TOTAL	10	361,663		
UTICA				
MASONIC FOUNDATION FOR MEDICAL RESEARCH AND HUMAN WELFARE				
CERNY, LAWRENCE C	BLOOD FLOW THROUGH COLLAPSIBLE TAPERED TUBES	RO1HE 10081-02S1	CVB	2,496
WULFF, VERNER J	A STUDY OF VISUAL COUPLING REACTIONS	RO1NB 03721-07	VIS	31,080
INSTITUTION TOTAL	2	33,576		
VALHALLA				
GRASSLANDS HOSPITAL				
GRAIG, FRANK A	SIGNIFICANCE OF THYROIDAL CREATINE KINASE	RO1AM 11336-01S1	END	9,640
GRAIG, FRANK A	SIGNIFICANCE OF THYROIDAL CREATINE KINASE	RO1AM 11336-02	END	33,499
INSTITUTION TOTAL	2	43,139		
WOODBURY				
WALDEMAR MEDICAL RESEARCH FOUNDATION				
MC DONALD, MARGARET R	NUCLEASES AS ANTI-TUMOR AGENTS	RO1CA 08346-03	PHRB	31,246
MOLOMUT, NORMAN	ANTIBODY FORMATION IN MICE WITH VIRAL LYMPHOCYTOPENIA	RO1CA 08302-03	VR	34,587
INSTITUTION TOTAL	2	65,833		
YONKERS				
BOYCE THOMPSON INSTITUTE FOR PLANT RESEARCH				
BOZARTH, ROBERT F	BIOCHEMISTRY OF VIRUS INDUCED PLANT TUMORS	RO1CA 04294-10	VR	49,298
GERSHON, HERMAN	MODES OF ANTIFUNGAL ACTION OF 8-QUINOLINOLS	RO1AI 05808-05	TOX	43,865
MARAMOROSCH, KARL	VIRUSES IN NEMATODE VECTORS AND NEMATODE TISSUE CULTURE	RO1AI 07687-02	VR	43,780
ROBERTS, DONALD W	MODE OF ACTION OF A NEW FUNGAL PATHOGEN OF MOSQUITOES	RO1AI 07383-02	TMP	15,087
INSTITUTION TOTAL	4	152,030		
STATE TOTAL	1,905	98,177,375		
NORTH CAROLINA				
CHAPEL HILL				
HAITIAN-AMERICAN TUBERCULOSIS INSTITUTE				
VANDIVIERE, H MAC	FIELD EVALUATIONS IN TUBERCULOSIS ALLERGY IMMUNITY	R22AI 07984-01S1	SSS	26,487
VANDIVIERE, H MAC	FIELD EVALUATIONS IN TUBERCULOSIS ALLERGY AND IMMUNITY	R22AI 07984-02	SSS	133,757
INSTITUTION TOTAL	2	160,244		
NORTH CAROLINA UNIVERSITY OF				
ABERNATHY, JAMES R	RANDOMIZED RESPONSE EXPERIMENTS ON ABORTIONS	RO1HD 03461-01	EOC	79,931
ANDERSON, EVELYN L	FOOD INTAKE PATTERNS OF DENTURE CANDIDATES	RO1DH 00077-03	EOC	26,514
BAGGETT, BILLY	FATE OF STEROID HORMONES APPLIED TO TARGET ORGANS	RO1AM 01718-10	END	53,224
BAGGETT, BILLY	RADIOACTIVE CARDIAC GLYCOSIDES	RO1HE 11557-01	PHRA	20,796
BARRY, EDWARD G	CHROMOSOME CYTOLOGY AND CYTOGENETICS OF NEUROSPORA	RO1GM 14263-02	GM	16,990
BELL, FRED E	ENZYMES ASSOCIATED WITH PROTEIN BIOSYNTHESIS	RO1CA 04538-09S1	PC	7,575
BLYTHE, WILLIAM B	A STUDY OF CERTAIN INFLUENCES ON SODIUM EXCRETION	RO1AM 11770-01	GMB	10,833
BRINKHOUS, KENNETH M	HEMORRHAGE AND THROMBOSIS RESEARCH PROGRAM-PROJECT	PO1HE 06350-07	HEP	354,841
BRINKHOUS, KENNETH M	STUDIES ON BLOOD COAGULATION AND HEMOPHILIA	RO1HE 01648-21	PTHA	62,613
BRINKHOUS, KENNETH M	HEMOSTASIS & THROMBOSIS-ANALYSIS METHODS & STANDARDS	RO1HE 10582-03	NSS	32,016
BUTLER, THOMAS C	STUDIES OF DRUG TOXICITY AND RATIONAL USE OF DRUGS	P11GM 13606-03	PTR	586,963
COKE, JAMES L	STEREOCHEMISTRY AND SYNTHESIS OF PAPAYA ALKALOIDS	RO1HE 07050-05S1	MCHA	2,634
COSTELLO, DONALD P	STUDIES ON CELLS, SPINDLES, ASTERS, AND CENTRIOLES	RO1GM 15311-06	CBY	27,198
COUCH, JOHN N	STUDIES ON SOME FUNGAL PARASITES OF MOSQUITOES	RO1AI 03235-08	TMP	28,516
COUCH, JOHN N	STUDIES IN ACTINOPLANACEAE	RO1AI 07381-03	BM	8,702
COULTER, NORMAN A, JR	OSCILLATORY BLOOD FLOW	RO1HE 10063-04	PHY	10,353
CRAWFORD, JAMES J	BACTERIOLOGY OF THE CLEFT PALATE ANOMALY	RO1DE 02352-03	DEN	28,549
CROMARTIE, WILLIAM J	INNATE IMMUNITY AND STREPTOCOCCAL DISEASE	RO1AI 05844-05	BM	34,429
DIXON, ANDREW D	DEVELOPMENT GRANT-DENTAL RESEARCH CENTER	P13DE 02668-02	NSS	619,038
DIXON, ANDREW D	FINE STRUCTURE OF TRIGEMINAL GANGLIONIC NEURONS	RO1DE 02075-04S1	NEUB	203
DIXON, ANDREW D	FINE STRUCTURE OF TRIGEMINAL GANGLIONIC NEURONS	RO1DE 02075-05	NEUB	39,645
DIXON, ANDREW D	GENERAL RESEARCH SUPPORT GRANT	S01FR 05333-07	NSS	37,186
ELANDT-JOHNSON, REGINA C	PROBABILITY MODELS FOR HISTOCOMPATIBILITY	RO1AI 07975-01	SSS	24,898
FALLON, HAROLD J	REGULATION OF AMINO ACID AND LIPID METABOLISM	RO1AM 09000-04	MET	56,812
FAUST, ROBERT G	MECHANISM OF SUGAR TRANSPORT BY THE SMALL INTESTINE	RO1AM 07998-04S1	PHY	15,370
FAUST, ROBERT G	MECHANISM OF SUGAR TRANSPORT BY THE SMALL INTESTINE	RO1AM 07998-05	PHY	23,811
FERGUSON, JOHN H	BLOOD COAGULATION AND RELATED PROBLEMS	RO1HE 01510-15	HEM	50,962
FORDHAM, CHRISTOPHER C, III	STUDIES IN RELATION TO DRUG-INDUCED RENAL DISEASE	RO1AM 10320-03	PTHA	14,608
GERATZ, J DIETER	SPECIFIC INHIBITION OF PATHOLOGIC PROTEOLYSIS	RO1AM 10746-02	GMA	16,559

TABLE 2—RESEARCH GRANTS, BY AREA, INSTITUTION, AND PRINCIPAL INVESTIGATOR

INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRG	DOLLARS
NORTH CAROLINA—(CON.)				
GITELMAN, HILLEL J	EXPERIMENTAL MAGNESIUM STUDIES	RO1AM 08685-05	GM	10,449
GLASSER, RICHARD L	NEURAL REGULATION OF RESPIRATION	RO1NB 06795-02	PHY	18,994
GLASSMAN, EDWARD	GENETIC CONTROL OF XANTHINE DEHYDROGENASE	RO1GM 08202-06S1	GEN	174
GLASSMAN, EDWARD	GENETIC CONTROL OF XANTHINE DEHYDROGENASE	RO1GM 08202-08	GEN	53,619
GOODER, HARRY	METABOLIC ASPECTS OF STREPTOCOCCAL L FORMS	RO1AI 04577-07	MBC	24,162
GOTTSCHALK, CARL W	MICROPUNCTURE STUDY OF KIDNEY FUNCTION	RO1HE 02334-12	GM	35,894
GOYER, ROBERT A	PLASMOCID INDUCED MUSCLE NECROSIS	RO1AM 10049-04	PTHA	17,329
GOYER, ROBERT A	THE RENAL TUBULE IN LEAD POISONING	RO1AM 12061-02	PTHA	17,864
GRAHAM, JOHN B	GENETIC CONTROL OF BLOOD COAGULATION	RO1HE 03140-12	GEN	50,056
GRIZZLE, JAMES E	STATISTICS OF THE GASTRIC FREEZING STUDY	RO1AM 07540-06	SRC	30,346
GRIZZLE, JAMES E	DEVELOPMENT OF MULTIVARIATE STATISTICAL ANALYSIS	RO1GM 12868-04	SSS	107,140
HALL, W J	SEQUENTIAL EXPERIMENTATION AND ANALYSIS	RO1GM 10397-06	SSS	26,546
HANSEN, ANN C	STUDY OF DECISION-MAKING IN P H NURSING	RO2NU 00059-05S1	NR	2,763
HARNED, HERBERT S, JR	INITIATION AND CONTROL OF RESPIRATION OF TERM LAMBS	RO1HD 00239-06	HED	30,136
HARRIS, LOUIS S	NARCOTIC-ANTAGONIST ANALGESICS	RO1NB 06854-02	PHRB	60,262
HAUGHTON, GEOFFREY	STRUCTURE OF TRANSPLANTATION ANTIGENS IN TUMOR CELLS	RO1CA 08750-03	IMB	31,145
HERION, JOHN C	MECHANISMS OF ENDOTOXIN ACTION	RO1AI 04925-06	BM	13,914
HERMANS, JAN	SIDE CHAIN INTERACTIONS OF PROTEINS	RO1GM 12157-04	BBCA	29,632
HISKEY, RICHARD G	SYNTHESIS AND CHEMISTRY OF ORIENTED PEPTIDES	RO1AM 03416-09	BIO	42,158
HISKEY, RICHARD G	CHEMISTRY OF UNSYMMETRICAL ALIPHATIC DISULFIDES	RO1GM 07966-08	MCHB	24,530
HOGAN, EDWARD L	LIPID COMPOSITION IN MYELINATION AND LEUCODYSTROPHY	RO1NB 06926-02	NEUB	24,568
HOLCOMB, GEORGE R	BIOMEDICAL SCIENCES SUPPORT	SO5FR 07072-03	NSS	57,392
HUGHES, JOHN T	FLUORIDE SUPPLEMENTS FOR ELEMENTARY SCHOOL CHILDREN	RO1HD 00024-05	DEN	35,025
IRVIN, J LOGAN	ISOLATION AND METABOLIC FUNCTIONS OF HISTONES	RO1GM 08318-07	BIO	44,198
JENKINS, C DAVID	BEHAVIORAL FACTORS IN CORONARY HEART DISEASE	RO1HE 10326-03	EDC	32,652
JOHNSON, CHARLES S, JR	MAGNETIC RESONANCE STUDY OF ELECTRON TRANSFER	RO1GM 15596-01	BBCB	12,933
JOHNSON, GEORGE, JR	INTRACELLULAR ELECTROLYTE AND WATER CHANGES IN SHOCK	RO1HE 11200-02	SGYA	26,829
JONES, MARY E	CARBAMYL ENZYMES AND DIFFERENTIATION	RO1HD 02148-02	BIO	48,374
KIRKMAN, HENRY N	STUDIES OF GENETICALLY ABNORMAL HUMAN ENZYMES	RO1AM 11065-02	GEN	25,147
KOCH, WILLIAM E	DIFFERENTIATION OF EMBRYONIC TOOTH RUDIMENT IN VITRO	RO1DE 02863-01	DEN	16,343
KOKAS, ESZTER	PHYSIOLOGY OF INTESTINAL VILLI	RO1AM 04675-08	GM	29,850
KRALL, ALBERT R	ION RELATIONS AND METABOLISM IN BRAIN MITOCHONDRIA	RO1NB 07109-02	MBY	40,608
KRIGMAN, MARTIN R	NEUROGLIA AND ALTERED CEREBROVASCULAR PERMEABILITY	RO1HE 11078-02	PTHA	19,931
LINDER, FORREST E	MEASUREMENT METHODS FOR POPULATION CHANGE	RO1HD 03441-01	EDC	138,805
LUCCHESI, JOHN C	GENETIC REGULATION IN DROSOPHILA DOSAGE COMPENSATION	RO1GM 15691-01	GEN	19,667
MANIRE, GEORGE P	TOXICITY AND INFECTIVITY OF PSITTACOSIS VIRUSES	RO1AI 00868-12	VR	20,157
MATTOCKS, ALBERT M	URATE CRYSTAL MODIFICATION IN GOUT	RO1AM 11097-02	GMA	11,010
MAYES, W F	GENERAL RESEARCH SUPPORT GRANT	SO1FR 05450-07	NSS	121,510
MC CALL, ROBERT B	THE ATTENTIONAL RESPONSE OF THE INFANT TO DISCREPANCY	RO1HD 03642-01	EXP	26,277
MORRIS, CHARLES E	IN VITRO LYMPHOCYTE REACTIONS IN NEUROMUSCULAR DISEASE	RO1NB 06320-03	IMB	18,387
MUNSON, PAUL L	PEPTIDE HORMONES AFFECTING CALCIUM METABOLISM	RO1AM 10558-03	GM	119,074
NEY, ROBERT L	REGULATION OF STEROID SYNTHESIS IN ADRENAL NEOPLASMS	RO1CA 10408-01	END	25,305
OLIVE, LINDSAY S	GENETICS OF SORDARIA FIMICOLA	RO1AI 08371-01	GEN	20,307
PAGANO, JOSEPH S	ENHANCEMENT & CELLULAR TRANSFER OF SV40 NUCLEIC ACIDS	RO1CA 10169-02	VR	25,495
PARKER, JOHN C	ION TRANSFER AND METABOLISM IN MAMMALIAN RED CELLS	RO1AM 11356-01	HEM	33,464
PEACOCK, ERLE E, JR	KINETICS OF BIOLOGICAL REACTIONS IN SURGICAL WOUNDS	RO1AM 03664-09A1	SGYB	74,047
PEACOCK, ERLE E, JR	EFFECT OF LATHYROGENS ON SURGICAL SCAR TISSUE	RO1AM 12322-01	SGYB	29,443
PENNIALL, RALPH	A STUDY OF ENZYMIC CAPABILITIES OF ISOLATED NUCLEI	RO1HE 06088-06S1	BIO	7,831
PERLMUTT, JOSEPH H	NEURAL AND HORMONAL CONTROL OF KIDNEY FUNCTION	RO1HE 02457-12	PHY	17,912
PETERS, RICHARD M	HYPERCAPNIA ANOXIA AND THE MECHANICS OF BREATHING	RO1HE 01257-16	SGYA	19,534
PETERS, RICHARD M	ARTERIOVENOUS FISTULA FLOW IN THE PORTAL CIRCULATION	RO1HE 06086-10	SGYB	22,166
PIANTADOSI, CLAUDE	POTENTIAL ANTICANCER AGENTS	RO1CA 06364-06S1	MCHA	1,831
PIANTADOSI, CLAUDE	ALKOXY AND ALKENYLOXY GLYCERYL ETHERS AND DERIVATIVES	RO1GM 12562-04	MET	27,489
POLLITZER, WILLIAM S	GENETIC AND MORPHOLOGIC STUDY OF POPULATION ISOLATES	RO1GM 10601-05	GEN	10,362
REILLEY, CHARLES N	NMR STUDIES OF AMINO-CARBOXYLIC ACIDS	RO1GM 12598-04	MCHB	26,065
RHEINGOLD, HARRIET L	SOCIAL AND EXPLORATORY BEHAVIOR IN THE HUMAN INFANT	RO1HD 01107-05	DBR	55,157
ROBINSON, HALBERT B	UNC CHILD DEVELOPMENT AND MENTAL RETARDATION INSTITUTE	PO1HO 03110-01	HDP	144,148
ROLETT, ELLIS L	LEFT VENTRICULAR PERFORMANCE	RO1HE 08580-04	CVA	38,337
SCHWAB, JOHN H	CELLULAR COMPONENTS OF GROUP A STREPTOCOCCI	RO1AI 00949-13	ALY	36,292
SESSIONS, JOHN T, JR	VILLUS MOTILITY, LYMPH FLOW AND INTESTINAL ABSORPTION	RO1AM 10263-03	GM	46,496
SHARP, D GORDON	BIOPHYSICAL STUDIES OF VIRUS-CELL INTERACTIONS	RO1GM 05177-11S2	VR	283
SHARP, D GORDON	BIOPHYSICAL STUDIES OF VIRUS-CELL INTERACTIONS	RO1GM 05177-12	VR	42,249
SPITZNAGEL, JOHN K	METABOLIC ASPECTS OF BACTERIAL ECOLOGY IN HOST TISSUES	RO1AI 02430-10	MBC	26,542
STACY, RALPH W	SCIENTIFIC DATA PROCESSING IN MEDICAL RESEARCH	RO1GM 13625-02S1	COM	25,641
STACY, RALPH W	SCIENTIFIC DATA PROCESSING IN MEDICAL RESEARCH	RO1GM 13625-03	COM	67,584
STACY, RALPH W	COMPUTER RESEARCH FOR PHYSIOLOGICAL DATA ACQUISITION	RO1GM 15900-01	COM	307,575
TAYLOR, DUANE F	THE SETTING REACTION OF DENTAL AMALGAM	RO1DH 00081-03	DEN	16,741
TAYLOR, ISAAC M	GENERAL CLINICAL RESEARCH CENTER	MO1FR 00046-08	CLR	416,967
TAYLOR, ISAAC M	GENERAL RESEARCH SUPPORT GRANT	SO1FR 05406-07	NSS	229,306
THOMAS, COLIN G, JR	ISOTOPE STUDIES IN GROWTH OF THYROID CANCER	RO1CA 01915-15	SGYA	19,728
TWAROG, ROBERT	MOLECULAR RELATIONSHIPS BETWEEN MIMAEAE AND MORAXELLA	RO1AI 07126-03	BM	19,052
VAN WYK, JUDSON J	ROLE OF ENDOCRINE SECRETIONS IN GROWTH AND DEVELOPMENT	RO1AM 01022-12	END	44,312
WALKER, RICHARD I	STUDIES OF LEUKOCYTE KINETICS	RO1CA 07028-06	HEM	17,026

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INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRG	DOLLARS
NORTH CAROLINA—(CON.)				
WARREN, DONALD W	PRESSURE-FLOW STUDY OF VELOPHARYNGEAL FUNCTION	ROI DE 02002-05	CMS	37,681
WELT, LOUIS G	CHRONIC DIALYSIS & PATHOPHYSIOLOGY OF UREMIA	ROI AM 08458-04	AMP	97,705
WELT, LOUIS G	INTERNAL AND EXTERNAL EXCHANGES OF IONS AND WATER	ROI HE 01301-16	PHY	34,573
WHEELER, CLAYTON E, JR	RECURRENT HERPES SIMPLEX. MUTANT HERPES SIMPLEX	ROI AI 04733-07	VR	20,399
WHEELER, CLAYTON E, JR	UTILIZATION OF EPIDERMAL CELL MODEL FROM HUMAN SKIN	ROI AM 10546-03	IMB	46,283
WHITE, JAMES R	MECHANISMS OF ANTIBIOTIC ACTION	ROI AI 06211-05	MB	47,577
WHITTEN, DAVID G	PHOTOCHEMICAL STUDIES OF METALLOPORPHYRIN COMPLEXES	ROI GM 15238-01	MCHB	20,174
WILCOX, BENSON R	THE PULMONARY CIRCULATION IN SURGICAL HEART DISEASE	ROI HE 11919-01	SGYA	41,941
WILSON, JOHN E	BRAIN FUNCTION AND THE METABOLISM OF MACROMOLECULES	ROI NB 07457-02	NEUB	43,588
YONCE, LLOYD R	CIRCULATION IN SKELETAL MUSCLE	ROI HE 03757-09	PHY	26,899
YOUNG, DANIEL T	O ₂ DEBT, EXCESS LACTATE & CARDIAC OUTPUT IN EXERCISE	ROI HE 10849-02	CVA	16,862
INSTITUTION TOTAL	113	6,129,988		
DURHAM				
DUKE UNIVERSITY				
AMOS, DENNIS B	STUDIES ON THE IMMUNOGENETICS OF TRANSPLANTATION IN MAN	ROI GM 10356-06	IMB	184,956
ANDERSON, NELS C	HORMONAL AND IONIC BASIS OF UTERINE EXCITATION	ROI HD 02742-02	HED	5,085
ANLYAN, WILLIAM G	GENERAL CLINICAL RESEARCH CENTER	MO1 FR 00030-07	CLR	618,281
ANLYAN, WILLIAM G	SURGICAL VASCULAR DISORDERS	ROI HE 08929-05	SGYB	126,522
ANLYAN, WILLIAM G	GENERAL RESEARCH SUPPORT GRANT	SO1 FR 05405-07	NSS	429,032
APPEL, STANLEY H	RNA AND PROTEIN METABOLISM IN NEUROLOGIC DISORDERS	ROI NB 07872-01	MET	12,924
APPEL, STANLEY H	RNA AND PROTEIN METABOLISM IN NEUROLOGIC DISORDERS	ROI NB 07872-02	MET	38,132
ARMSTRONG, CLAY M	PERMEABILITY MECHANISMS IN EXCITABLE MEMBRANES	ROI NB 07966-01	PHY	12,936
BEARD, JOSEPH W	VIRUSES IN RELATION TO AVIAN AND HUMAN MALIGNANCY	ROI CA 04572-09S1	VR	11,625
BEARD, JOSEPH W	VIRUSES IN RELATION TO AVIAN AND HUMAN MALIGNANCY	ROI CA 04572-10	VR	307,531
BERNHAIM, FREDERICK	ANTIOXIDANT AND PHOSPHOLIPASE ACTIVITY IN TUMORS	ROI CA 04605-09	PLC	23,880
BLUM, JACOB J	STUDIES ON SYNCHRONIZED CELL DIVISION	ROI HD 01269-06	CBY	29,401
BOGDONOFF, MORTON D	THE EFFECT OF PSYCHOLOGIC STIMULI ON DIABETES MELLITUS	ROI AM 10839-02	DBR	54,089
BOGDONOFF, MORTON D	CARDIOVASCULAR RESPONSES TO CNS STIMULI	ROI HE 08571-05	EXP	33,463
BOTWINICK, JACK	PSYCHOPHYSIOLOGICAL ASPECTS OF AGING	ROI HD 01325-04	MNHB	21,419
BOYARSKY, SAUL	PATHOLOGIC PHYSIOLOGY OF THE SCARRED URETER	ROI AM 07785-03S2	SGYA	11,000
BOYARSKY, SAUL	PATHOPHYSIOLOGY OF URETERAL OBSTRUCTION IN MAN	ROI AM 08292-05	SGYA	20,400
BOYARSKY, SAUL	URETERAL NEUROLOGY	ROI AM 10712-01S1	SGYA	4,950
BOYARSKY, SAUL	URETERAL NEUROLOGY	ROI AM 10712-02	SGYA	25,477
BOYARSKY, SAUL	THE URETER IN PYELONEPHRITIS	ROI AM 11681-01	SGYA	16,923
BRADSHAW, CHARLES K	SYNTHESIS OF AGENTS FOR CANCER CHEMOTHERAPY	ROI CA 05509-08	MCHB	31,124
BRADSHAW, CHARLES K	SYNTHESIS OF HYPOTENSIVE AGENTS	ROI HE 02170-13	MCHB	16,837
BRENDEL, KLAUS	HYPOLYCEMIC DRUGS IN CARBOHYDRATE-LIPID INTERRELATION	ROI AM 12706-01	MET	22,398
BRESSLER, RUBIN	METABOLISM OF FATTY ACIDS BY THE FAILING HEART	ROI HE 07061-07	PHY	34,924
BRODY, IRWIN A	PATHOPHYSIOLOGY OF MUSCLE RELAXING FACTOR	ROI AM 10846-02	MET	23,025
BUCKLEY, CHARLES E III	THE IMMUNOBIOLOGY OF SARCOIDOSIS AND TUBERCULOSIS	R22 AI 07499-02	SSS	22,009
BUCKLEY, REBECCA H	PASSIVE TRANSFER STUDIES IN AUTOIMMUNE THYROIDITIS	ROI AM 11480-01A1	IMB	31,858
BUETTNER-JANUSCH, JOHN	GENETIC AND ETHOLOGICAL STUDIES OF PRIMATES	PO6 FR 00388-01	PME	96,811
BUETTNER-JANUSCH, JOHN	GENETIC STUDIES OF THE BLOOD OF PRIMATES	ROI GM 13222-04	GEN	50,760
BURKHOLDER, PETER M	IMMUNOHISTOPATHOLOGY OF RENAL DISEASES	ROI AM 11092-04	PTHA	38,244
BURNS, RICHARD O	MOLECULAR MECHANISMS OF BIOLOGICAL CONTROL	ROI GM 12551-04	PC	26,104
BUSSE, EWALD W	AN INTEGRATED INVESTIGATION OF AGING AND THE AGED	PO1 HD 00668-10	HDP	395,088
BYRNE, WILLIAM L	MECHANISMS OF METABOLIC CONTROL	ROI AM 12033-01	BIO	39,062
BYRNE, WILLIAM L	MECHANISMS OF METABOLIC CONTROL	ROI AM 12033-02	BIO	10,450
CAPP, M PAUL	CARDIAC SURGICAL EFFECTS ON HEART FUNCTION IN INFANTS	ROI HE 10179-03	SGYB	30,437
CLAPP, JAMES R	MICROPUNCTURE STUDY OF RENAL TUBULAR FUNCTION	ROI AM 10844-02	PHY	38,719
CRENSHAW, MARION C, JR	CARBOHYDRATE METABOLISM OF PREGNANT UTERUS AND FETUS	ROI HD 02628-02	HED	23,771
CULBERSON, CHICITA F	SURVEY OF LICHEN SUBSTANCES—POTENTIAL MEDICINALS	ROI GM 08345-08	MCHA	18,827
DAVIDSON, EUGENE A	MUCOPOLYSACCHARIDE METABOLISM	ROI AM 04315-08	PC	9,200
DOBBINS, WILLIAM O, III	INTESTINAL MORPHOLOGY IN NEOMYCIN MALABSORPTION	ROI AM 09557-03	GM	9,313
DOBBINS, WILLIAM O, III	MORPHOLOGY OF MALABSORPTION IN HUMAN DISEASE	ROI AM 12107-01	GMA	88,170
EADIE, GEORGE S	POST TRANSFUSION ERYTHROCYTE SURVIVAL	ROI HE 03028-09S1	HEM	1,289
ERICKSON, ROBERT P	THE NEURAL CODE FOR TASTE A COMPARATIVE STUDY	ROI NB 04793-05	CMS	31,409
FRIDOVICH, IRWIN	MECHANISMS OF SPECIFIC ION EFFECTS	ROI GM 10287-06	BIO	32,427
FRIEDBERG, SAMUEL J	GLYCERYL ETHER SYNTHESIS	ROI HE 11902-01A1	MET	16,430
GEORGIADIS, NICHOLAS	PRESERVATION OF SKIN HOMOGRAFTS FOR BURNED INDIVIDUALS	ROI GM 14921-02	SGYB	16,622
GEORGIADIS, NICHOLAS	PRESERVATION OF CORNEAL GRAFTS	ROI NB 01161-11S1	VIS	5,053
GEORGIADIS, NICHOLAS G	PSEUDOMONAS INFECTION IN BURNS THERAPY EVALUATION	ROI AI 05601-05	BM	20,430
GLENN, JAMES F	COOPERATIVE STUDY OF ADJUVANT BLADDER CANCER THERAPY	ROI CA 07387-05	SRC	25,975
GREENE, RONALD C	BIOCHEMISTRY OF SULFONIUM COMPOUNDS	ROI GM 10317-05S1	PC	230
GREENE, RONALD C	BIOCHEMISTRY OF SULFONIUM COMPOUNDS	ROI GM 10317-06	PC	35,564
GREENFIELD, JOSEPH C, JR	INSTANTANEOUS BLOOD FLOW IN HUMAN ASCENDING AORTA	ROI HE 09711-04	CVA	27,999
GRIMSON, KEITH S	SURGERY, DRUGS AND DIET IN HYPERTENSION	ROI HE 00763-17	SGYB	21,918
GUILD, WALTER R	BIOPHYSICAL STUDIES ON BACTERIAL DNA	ROI GM 10965-08	BBC	37,522
HACKEL, DONALD B	DIABETES MELLITUS IN PSAMMOMYS OBEUS	ROI AM 08949-04	MET	55,879
HACKEL, DONALD B	PATHOLOGIC METABOLIC AND PHYSIOLOGIC STUDIES OF HEART	ROI HE 05875-08	CV	31,872
HANDLER, PHILIP	LABORATORY FOR MACROMOLECULAR STRUCTURE	PO1 GM 15000-01	GMP	293,360
HANDLER, PHILIP	STRUCTURE AND FUNCTION OF ENZYMES	ROI GM 00091-23	PC	223,490

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NORTH CAROLINA—(CON.)				
HAUSER, CHARLES R	SYNTHESIS OF POTENTIAL ANTI-CANCER COMPOUNDS	RO1CA 04455-10	MCHA	35,062
HEYMAN, ALBERT	DUKE-VA CENTER FOR CEREBROVASCULAR RESEARCH	P02NB 06233-02S1	SRC	1,396
HEYMAN, ALBERT	DUKE-VA CENTER FOR CEREBROVASCULAR RESEARCH	P02NB 06233-03	SRC	114,553
HEYMAN, ALBERT	EXTRACRANIAL ARTERIAL OCCLUSION-JOINT STUDY	RO1HE 07369-07	SRC	24,412
HIJMANS, JACQUELINE C	ENZYME DEVELOPMENT IN THE EMBRYO	RO1HD 02838-02	HED	28,937
HILL, ROBERT L	STRUCTURE AND FUNCTION OF HEMOGLOBINS AND ANTIBODIES	RO1HE 06400-07	BIO	43,521
HOCHSTEIN, PAUL E	MECHANISMS OF DRUG ACTION IN NORMAL AND TUMOR CELLS	RO1CA 10330-02	PC	27,523
HOROWICZ, PAUL	IONIC AND ELECTRICAL PROPERTIES OF MUSCLE MEMBRANES	RO1GM 08803-07	PHY	24,000
JOBSIS, FRANS F	INTRACELLULAR REACTIONS IN CONTRACTING MUSCLES	RO1AM 10532-03	PHY	18,021
JOBSIS, FRANS F	LOCAL METABOLIC EFFECTS OF EVOKED CORTICAL ACTIVITY	RO1NB 06729-02	PHY	18,861
JOHNSON, EDWARD A	THE GENERATION OF THE CARDIAC ACTION POTENTIAL	RO1HE 08620-04S1	PHY	7,111
JOHNSON, EDWARD A	THE GENERATION OF THE CARDIAC ACTION POTENTIAL	RO1HE 08620-05	PHY	41,884
JONES, OLIVER W, JR	ENZYMATIC PROTEIN SYNTHESIS IN VITRO	RO1AM 09698-03	BIO	24,973
KAMIN, HENRY	BIOLOGICAL OXIDATIONS IN MITOCHONDRIA	RO1AM 04662-08	PC	82,660
KERBY, GRACE P	MECHANISMS OF INFLAMMATION IN RHEUMATOID ARTHRITIS	RO1AM 01251-12	GM	19,514
KERBY, GRACE P	INTRAVASCULAR THROMBOSIS AND CELL INJURY	RO1HE 10625-02	HEM	7,414
KILBURN, KAYE H	CELLULAR MECHANISMS OF LUNG DESTRUCTION IN EMPHYSEMA	RO1AI 07617-03	SSS	136,295
KILBURN, KAYE H	STRUCTURAL BASIS OF AIRWAY AND VASCULAR DYNAMICS	RO1HE 07868-06	CVB	17,953
KINNEY, THOMAS D	PATHOLOGY OF EXCESS IRON ABSORPTION	RO1AM 04839-09	NTN	73,941
KIRSHNER, NORMAN	BIOCHEMISTRY OF THE ADRENAL MEDULLA	RO1AM 05427-07	PHRA	12,005
KLINTWORTH, GORDON K	PATHOGENESIS OF SECONDARY BRAINSTEM VASCULAR LESIONS	RO1NB 06805-02	NEUA	27,935
KLOPPER, PETER H	MATERNAL-FILIAL RELATIONS IN THE PROSIMIANS	RO1HD 02319-02	EXP	20,814
KOSTYO, JACK L	ANABOLIC ACTIONS OF ADENOHYPOPHYSEAL HORMONES	RO1AM 04521-08	END	17,863
LACK, LEON	PHARMACOLOGY OF INTESTINAL BILE SALT TRANSPORT	RO1AM 09582-05	PHRA	56,884
LANNING, JOHN T	GOVERNMENT AND MEDICINE	RO1LM 00574-01	HLS	18,305
LASZLO, JOHN	MECHANISMS OF DRUG INHIBITION OF HUMAN LEUKEMIC CELLS	RO1CA 08800-02	PHRB	34,817
LASZLO, JOHN	SOUTHEASTERN CANCER CHEMOTHERAPY COOPERATIVE GROUP	R1DCA 05634-08	SRC	25,986
LE MAY, JOHN C	LABORATORY ANIMAL RESOURCE IMPROVEMENTS	P06FR 00430-01	AR	134,329
LEBOVITZ, HAROLD E	HORMONES AND INTERMEDIARY METABOLISM	RO1AM 01324-12	END	26,175
LEWIS, HAROLD W	BIOMEDICAL SCIENCES SUPPORT	S05FR 07070-03	NSS	66,037
LYNN, WILLIAM S, JR	MITOCHONDRIAL AND CHLOROPLASTIC PHYSIOLOGY	RO1GM 14022-02	BIO	27,084
MAHALEY, MOSES S, JR	IMMUNOLOGICAL ASPECTS OF GLIOBLASTOMA MULTIFORME	RO1CA 07401-03S1	IMB	3,400
MC CARTY, KENNETH S	RAPIDLY LABELED RNA ASSOCIATED WITH NUCLEAR RIBOSOMES	RO1GM 12805-04	PC	22,320
MC INTOSH, HENRY D	CARDIOVASCULAR PHYSIOANATOMIC CORRELATIONS	P01HE 07563-06	HEPB	176,966
MC INTOSH, HENRY D	A MULTIDISCIPLINARY STUDY OF CARDIOVASCULAR FUNCTION	P01HE 11309-02	HEPB	152,916
MC MANUS, THOMAS J	METABOLIC ORGANIZATION OF RED BLOOD CELLS	RO1HE 10462-03	HEM	29,223
METZGAR, RICHARD S	IMMUNOLOGICAL STUDIES OF HUMAN TISSUE ISOANTIGENS	RO1AM 08054-05	IMB	31,783
METZGAR, RICHARD S	EFFECT OF TUMOR VIRUS ON ANTIGEN CONSTITUTION OF CELLS	RO1CA 08975-02	VR	21,685
MOORE, JOHN W	THE IONIC BASIS OF NERVE ACTIVITY	RO1NB 03437-07	PHY	85,116
MOSES, MONTROSE J	NUCLEAR CYTOLOGY AND CELL FUNCTION	RO1GM 06753-09	CBY	44,622
NAGAYA, HIROSHI	STUDY OF THYMUS FUNCTION AND SUPPRESSION WITH ANTISERA	RO1AI 08419-01	IMB	33,605
NARAHASHI, TOSHIO	MODE OF ACTION OF INSECTICIDES ELECTROPHYSIOLOGICAL	RO1NB 06855-02	PHY	22,132
NICKLAS, R BRUCE	ANALYSIS AND CONTROL OF CHROMOSOME MOVEMENT	RO1GM 13745-03	CBY	18,027
OBRIST, WALTER D	ESTIMATION OF CEREBRAL BLOOD FLOW BY Xe133 INHALATION	RO1NB 06798-02	NEUB	30,446
ODOM, GUY L	STUDY OF ANEURYSMS AND ACUTE SUBARACHNOID HEMORRHAGE	RO1NB 02369-10S1	SSS	1,009
ODOM, GUY L	STUDY OF ANEURYSMS AND ACUTE SUBARACHNOID HEMORRHAGE	RO1NB 02369-12	SSS	9,655
ODOM, GUY L	HEMODYNAMIC CHANGES IN EXPERIMENTAL ANEURYSMS	RO1NB 04368-06	NEUB	16,315
OSTERHOOT, SUYDAM	EFFECT OF HYPERBARIC OXYGEN ON ANAEROBIC INFECTIONS	RO1AI 08226-02	BM	28,319
PICKRELL, KENNETH L	HABILITATION OF THE CLEFT PALATE INDIVIDUAL	P01DE 01899-06	DEP	103,296
POSTLETHWAIT, RAYMOND W	ROLE OF VITAMIN C IN WOUND HEALING	RO1AM 05258-12	SGYA	13,201
PRATT, PHILIP C	FUNCTION STRUCTURE CORRELATIONS IN PULMONARY DISEASE	RO1HE 10753-02	CVA	12,155
QUIN, LOUIS D	ORGANOPHOSPHORUS COMPOUNDS FOR ANTICANCER SCREENING	RO1CA 05507-07S1	MCHA	300
QUIN, LOUIS D	ORGANOPHOSPHORUS COMPOUNDS FOR ANTICANCER SCREENING	RO1CA 05507-08	MCHB	26,331
QUIN, LOUIS D	NATURAL COMPOUNDS WITH CARBON-PHOSPHORUS BONDS	RO1GM 13751-03	MCHA	24,686
RENKIN, EUGENE M	CAPILLARY TRANSPORT OF LARGE MOLECULES	RO1HE 10936-02	CVB	28,811
ROBERTSON, J DAVID	PHYSICAL & CHEMICAL STUDIES OF NERVOUS TISSUE MEMBRANES	RO1NB 07107-02	MBY	126,227
ROBINSON, ROSCOE R	RENAL AMMONIA TRANSPORT AND METABOLISM IN MAMMALS	RO1AM 05930-07	PHY	21,587
ROBINSON, ROSCOE R	MICROPERFUSION STUDY OF RENAL TUBULAR LESIONS	RO1HE 11820-01	CVB	30,933
ROSSE, WENDELL F	ANTIBODY STUDIES IN HEMOLYTIC AND NEOPLASTIC DISEASE	RO1CA 10267-02	IMB	33,331
ROWLANDS, DAVID T, JR	PATHOLOGY OF THE IMMUNE RESPONSE DURING ONTOGENY	RO1AM 11797-01	IMB	46,830
RUNDLES, R WAYNE	COOPERATIVE STUDIES IN CANCER CHEMOTHERAPY	R10CA 03177-12	SRC	29,006
SABISTON, DAVID C, JR	CORONARY INSUFFICIENCY AND MYOCARDIAL REVASCULARIZATION	RO1HE 09315-05	SGYB	28,097
SABISTON, DAVID C, JR	COOPERATIVE STUDY OF RESULTS OF CARDIAC SURGERY	RO1HE 10555-03	SRC	116,730
SALTZMAN, HERBERT A	HYPERBARIC OXYGENATION	P01HE 07896-06	HEP	269,690
SALZANO, JOHN V	REGULATION OF RESPIRATORY ACTIVITY	RO1NB 03897-07	CVB	20,146
SANDERS, AARON P	HYPERBARIC OXYGEN TOXICITY - EFFECTS AND PREVENTION	RO1GM 14226-02	MET	22,129
SCHMIDT-NIELSEN, KNUT	COMPARATIVE PHYSIOLOGY OF SALT AND WATER METABOLISM	RO1HE 02228-13	PHY	58,903
SEALY, WILL C	CAUSES OF CARDIAC ARREST	RO1HE 01782-14	SGYB	77,953
SIDBURY, JAMES B, JR	STUDY OF INBORN ERRORS OF METABOLISM	RO1AM 06815-06	MET	43,729
SOMJEN, GEORGE G	PHARMACOLOGICAL INVESTIGATION OF SYNAPTIC PATHWAYS	RO1NB 05330-04	PHRA	23,558
SPACH, MADISON S	BIOPHYSICAL STUDIES IN PEDIATRIC CARDIOLOGY	P01HE 11307-02	HEPB	310,972
SPOCK, ALEXANDER	STUDY OF ETIOLOGY AND GENETICS OF CYSTIC FIBROSIS	P01AM 11442-01	AMP	88,410
STEAD, EUGENE A	PLANNING OF A CARDIOVASCULAR RESEARCH CENTER	RO1HE 11308-02	HEPB	139,622

TABLE 2—RESEARCH GRANTS, BY AREA, INSTITUTION, AND PRINCIPAL INVESTIGATOR

INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRG	DOLLARS
NORTH CAROLINA—(CON.)				
STEAD, EUGENE A, JR	CARDIOVASCULAR ADJUSTMENTS IN HEALTH & DISEASE	RO1HE 04807-08	CVA	80,164
STEMPEL, ROBERT S, JR	ADRENOCORTICOSTEROID METABOLISM IN CHILDREN	RO1HD 01200-09	END	17,680
STICKEL, DELFORD L	CLINICAL HOMOTRANSPLANTATION OF TISSUES AND ORGANS	PO1GM 12535-04	GMP	211,171
STICKEL, DELFORD L	PRESERVATION OF TISSUES AND ORGANS	RO1GM 13902-02	SCYA	29,989
TANFORD, CHARLES	PHYSICAL CHEMISTRY OF PROTEINS	RO1AM 04576-08	BBCA	80,322
TOSTESON, DANIEL C	FUNCTIONS AND MECHANISM OF CELL MEMBRANE ION TRANSPORT	PO1HE 12157-01	HEPB	269,245
TOSTESON, DANIEL C	REGULATION OF SALT AND WATER CONTENT OF CELLS	RO1HE 06381-07	PHY	67,204
TRUMP, BENJAMIN F	SUBCELLULAR REACTION TO INJURY IN THE KIDNEY	RO1AM 10698-03	PTHB	68,311
TURKINGTON, ROGER W	MAMMARY GLAND DIFFERENTIATION AND NEOPLASIA IN VITRO	RO1CA 10268-01	MBY	23,776
TYOR, MALCOLM P	INTESTINAL LIPID ESTERIFICATION AND AMINO ACID UPTAKE	RO1AM 08500-05	GMA	36,615
TYOR, MALCOLM P	BILE ACID PHYSIOLOGY AND METABOLISM IN HUMAN DISEASE	RO1AM 11730-01	GMA	77,265
VAZQUEZ, JACINTO J	HYPERSENSITIVITY IMMUNOCHEMISTRY AND AUTORADIOGRAPHY	RO1AI 05850-05	PTHB	39,771
VERNBURG, WINONA B	THERMAL ACCLIMATION PATTERNS IN PARASITES AND HOSTS	RO1AI 07174-03	TMP	23,151
VOGEL, F STEPHEN	THREE PROBLEMS IN EXPERIMENTAL PATHOLOGY	RO1NB 03670-08	PTHA	43,934
WADSWORTH, JOSEPH A	HUMAN MACULAR DISEASE, A CLINICAL OUTPATIENT STUDY	P15NB 06710-03	NBPB	25,438
WAKIL, SALIH J	THE METABOLISM AND CONTROL OF FATTY ACIDS	RO1GM 06242-10	PC	111,886
WALLACE, ANDREW G	ELECTROPHYSIOLOGY OF THE DENERVATED HEART	RO1HE 08845-04	CVB	47,391
WEBSTER, PAUL D	CONTROL OF PANCREATIC CELLULAR METABOLISM	RO1AM 11117-02	MET	11,219
WHEAT, ROBERT W	AMINOPOLYSACCHARIDE BIOSYNTHESIS	RO1AI 01659-10S1	MBC	13,000
WHEAT, ROBERT W	AMINOPOLYSACCHARIDE BIOSYNTHESIS	RO1AI 01659-11	MBC	60,093
WHEAT, ROBERT W	IMMUNOCHEMISTRY OF PATHOGENIC FUNGI	RO1AI 08359-01	BM	36,707
WILBUR, KARL M	CALCIFICATION MECHANISMS IN MARINE ORGANISMS	RO1DE 01382-08	CBY	32,086
WILDER, PELHAM, JR	NOVEL HETEROCYCLICS FOR CANCER CHEMOTHERAPY STUDY	RO1CA 04298-09	MCHB	14,674
WILKINS, ROBERT H	INDUCTION OF GLIOMAS WITH N-NITROSO-METHYLUREA	RO1NB 07147-01	NEUA	10,808
WILLETT, HILDA P	CONTROL OF PYRIDINE NUCLEOTIDES IN M TUBERCULOSIS	R22AI 08525-01	SSS	8,450
WYNGAARDEN, JAMES B	PURINE METABOLISM IN GOUT	RO1AM 12413-01	MET	25,000
YOUNG, DAVID L	ENZYME REGULATION AND MECHANISMS IN LIVER DISEASE	RO1HE 11443-01	MET	50,899
INSTITUTION TOTAL	158	9,089,312		
GREENSBORO				
NORTH CAROLINA UNIVERSITY OF				
ANDERTON, LAURA G	HEREDITY AND ENVIRONMENT IN CARCINOMA OF THE COLON	RO1CA 10020-01A1	PTHB	20,968
INSTITUTION TOTAL	1	20,968		
GREENVILLE				
EAST CAROLINA UNIVERSITY				
ITO, TAKERU	SOME ASPECTS OF IRON METABOLISM	RO1AI 08437-01	MBC	15,537
INSTITUTION TOTAL	1	15,537		
RALEIGH				
NORTH CAROLINA STATE DEPT OF MH				
GOTTLIEB, GILBERT	SENSORY AND PERCEPTUAL DETERMINANTS OF IMPRINTING	RO1HD 00878-07	EXP	17,849
INSTITUTION TOTAL	1	17,849		
NORTH CAROLINA UNIVERSITY OF -NORTH CAROLINA STATE UNIVERSITY AT RALEIGH				
ARMSTRONG, FRANK B	ISOLEUCINE-VALINE MUTANTS OF SALMONELLA	RO1GM 14184-02	GEN	17,959
BRADBURY, PHYLLIS C	DIFFERENTIATION OF THE GAMETOCYTES OF HAEMOPROTEUS	RO1AI 08567-01	TMP	14,244
COCKERHAM, C CLARK	QUANTITATIVE GENETICS RESEARCH PROGRAM PROJECT	PO1GM 11546-05	GMP	330,867
DONALDSON, WILLIAM E	EMBRYONIC FATTY ACID METABOLISM	RO1HD 02887-01	MET	21,974
ELKAN, GERALD H	RHIZOBIAL-LEGUME PHYSIOLOGICAL INTERRELATIONSHIPS	RO1AI 07247-03	BM	3,550
EVANS, JAMES B	STUDIES OF THE AEROCOCCUS-PEDICOCOCCUS BACTERIA	RO1AI 07693-02	BM	11,764
GUTHRIE, FRANK E	MECHANISMS OF PESTICIDE TOXICITY	PO1ES 00044-04	SSS	185,269
HILL, C H	ROLE OF COPPER IN ANIMAL METABOLISM	RO1AM 05651-06	NTN	30,766
HORTON, H ROBERT	ENVIRONMENTALLY-SENSITIVE MODIFICATIONS OF ENZYMES	RO1GM 13878-03	PC	21,030
JONES, EVAN E	INDUCTION OF ACETYLORNITHINE TRANSAMINASE IN E COLI	RO1CA 10245-02	MBC	35,261
KLOOS, WESLEY E	COMPARATIVE GENETICS OF MICROCOCCI AND STAPHYLOCOCCI	RO1AI 08255-01	MBC	16,294
KNIGHT, KENNETH L	BIONOMICS AND BEHAVIOR OF AEDES VEXANS	RO1AI 08905-01	TMP	16,060
LEVINE, SAMUEL G	RING A CHEMISTRY OF 5 10 - UNSATURATED STEROIDS	RO1AM 09279-04	MCHA	33,686
LONGMUIR, IAN S	OXYGEN TRANSPORT IN BLOOD AND TISSUE	RO1HE 10328-03	PHY	38,326
MAIN, A RUSSELL	MECHANISM OF ORGANOPHOSPHATE AND CARBAMATE INHIBITION	RO1AM 12355-01	TOX	26,289
MASON, DAVID D	EXPANSION OF COMPUTER FACILITIES	PO1FR 00011-06	COM	132,230
MC NEILL, JOHN J	REGULATORY MECHANISMS IN BACTERIAL LIPID METABOLISM	RO1HE 10322-02	PC	20,693
MEMORY, JASPER O	HIGH RESOLUTION NMR STUDY OF POLYCYCLIC HYDROCARBONS	RO1CA 08167-03S1	BCCB	4,336
MINOCHA, HARISH C	BIOCHEMISTRY OF SHOPE FIBROMA VIRUS TISSUE CULTURES	RO1CA 10403-01	VR	19,170
MOORE, ROYALL T	ULTRASTRUCTURE OF SPORE FORMATION IN FUNGI	RO1AI 07122-02	BM	31,536
RAMSEY, HAROLD A	ROLE OF VARIOUS PROTEASES IN NEONATAL NUTRITION	RO1AM 02230-10	NTN	11,888
ROBINSON, H F	BIOMEDICAL SCIENCES SUPPORT	SO5FR 07071-03	NSS	80,185
SMITH, FRANK H	EFFECT OF GOSSYPOL ON AMINO ACIDS	RO1AM 07039-06	NTN	13,761
TOVE, SAMUEL B	METABOLISM OF UNSATURATED FATTY ACIDS	RO1AM 02483-10	NTN	44,510
ULBERG, LESTER C	IDENTIFICATION OF LATENT FACTORS IN EMBRYONIC DEATH	RO1HD 02923-01	REB	31,143
WALL, MONROE E	ISOLATION AND CHEMISTRY OF PLANT ANTI-TUMOR AGENTS	RO1CA 08673-02	MCHB	26,338
WARD, THOMAS M	RELATIONSHIP OF PESTICIDE PROPERTIES TO ADSORPTION	RO1ES 00177-02	TOX	17,973
INSTITUTION TOTAL	27	1,237,102		

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INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRG	DOLLARS
NORTH CAROLINA—(CON.)				
WILMINGTON				
BABIES HOSPITAL				
BRAUER, RALPH W	ANESTHESIA AND CONVULSIONS ON HE AND H2 ABOVE 80 ATM	R01GM 15444-01	NEUA	44,155
INSTITUTION TOTAL	1	44,155		
WINSTON-SALEM				
WAKE FOREST UNIVERSITY				
ARTOM, CAMILLO	BIOSYNTHESIS OF PHOSPHOLIPIDS IN ANIMAL TISSUES	R01AM 00754-14	PC	38,284
BECK, ROBERT C	THIRST-INCENTIVE INTERACTIONS AND BEHAVIOR	R01HD 00937-07	EXP	7,247
BO, WALTER J	GLYCOGEN SYNTHESIS IN SMOOTH AND SKELETAL MUSCLE	R01AM 08029-05	MET	13,844
BO, WALTER J	SULPHOMUCOPOLYSACCHARIDES IN THE UTERUS OF PREGNANCY	R01HD 01357-04	REB	13,056
BOYCE, WILLIAM H	CARCINOMA OF THE URINARY BLADDER AN ADJUVANT STUDY	R01CA 07375-05	SRC	28,859
BRAME, ROBERT G	STUDIES IN REPRODUCTIVE PHYSIOLOGY	R01HD 03518-01	HED	17,625
BURT, RICHARD L	HPL, PREGNANCY DIABETOGENESIS AND PLACENTAL FAILURE	R01HD 01211-08	MET	47,374
BURT, RICHARD L	ENDOCRINE DETERMINANTS OF NEFA RESPONSE TO OXYTOCIN	R01HD 03210-01	GMB	10,844
CLARKSON, THOMAS B	A RESOURCE FOR THE STUDY OF SQUIRREL MONKEYS	P06FR 00180-04	PME	121,691
CLARKSON, THOMAS B	A RESOURCE FOR THE STUDY OF LABORATORY ANIMAL DISEASES	P06FR 00236-04	SSS	23,228
CLARKSON, THOMAS B	PATHOBIOLOGICAL STUDY OF ATHEROSCLEROSIS	R01HE 04722-09	PTHA	29,658
COLE, MONROE	DETERMINATION OF RUBROFUGAL PROJECTIONS	R01NB 05865-04	NEUA	15,998
COLE, MONROE	STUDY ON CEREBRAL VASCULAR DISEASE AND HYPERTENSION	R01NB 06935-02	SSS	10,931
CONRAD, MARGARET C	PATHOPHYSIOLOGY OF PERIPHERAL VASCULAR DISEASE	R01HE 09525-03	CVB	15,416
COWGILL, ROBERT W	FLUORESCENCE AND PROTEIN STRUCTURE	R01GM 10515-06	BBC	15,937
DALLAND, JOHN I	AUDITORY PSYCHOPHYSICS AND ELECTROPHYSIOLOGY	R01NB 06505-03	CMS	17,069
DREXLER, HENRY	A STUDY OF HOST CONTROLLED VARIATION IN BACTERIOPHAGE	R01AI 07107-03	VR	12,695
GENIEC, PAUL	A NEURONAL STUDY OF THE INFERIOR COLLICULUS IN MAN	R01NB 07353-02	CMS	800
GOLD, ALVIN H	CONTROL OF GLYCOGEN METABOLISM	R01AM 11104-02	PC	15,275
GOODMAN, HAROLD O	URINARY TAURINE AND SERUM URIC ACID IN MONGOLISM	R01HD 02206-03	MET	15,490
GREEN, HAROLD D	VASOMOTOR TONE AND VENOUS RETURN	R01HE 00487-19	CVA	91,911
HERNDON, C NASH	GENETIC STUDY OF ATHEROSCLEROSIS	R01HE 05277-08S1	GEN	3,485
HOLLEMAN, IVAN L, JR	EVALUATION OF TEMPORAL BONE FIXATION BY EMBALMING	R01NB 07772-01	CMS	8,048
HUNTLEY, CAROLYN C	RHEUMATOID DISEASE AND ISOLATED IGA DEFICIENCY	R01AM 11906-01	GMA	20,315
HUNTLEY, CAROLYN C	ABO ERYTHROBLASTOSIS - IMMUNOLOGIC STUDIES	R01HD 02874-02	HED	28,194
KENNEDY, JOHN R, JR	CYTOLOGY OF CILIARY GROWTH AND REGENERATION	R01GM 13386-02	CBY	3,800
KING, J STANTON, JR	IDENTIFICATION OF PEPTIDES IN HUMAN URINE	R01AM 08050-05	MET	6,481
LOCK, FRANK R	ADJUVANT UTERINE CANCER CHEMOTHERAPY	R01CA 07610-05	SRC	17,243
LOCK, FRANK R	UTERINE BLOOD FLOW AND CHANGES IN PREGNANCY	R01HE 03941-08S1	HED	1,583
LOCK, FRANK R	UTERINE BLOOD FLOW AND CHANGES IN PREGNANCY	R01HE 03941-09	HED	44,873
LOFLAND, HUGH B, JR	NUTRITIONAL STUDIES ON ATHEROSCLEROSIS	R01HE 04371-10	NTN	42,597
MEADS, MANSON	GENERAL CLINICAL RESEARCH CENTER	M01FR 00336-02	CLR	12,748
MEADS, MANSON	GENERAL RESEARCH SUPPORT GRANT	S01FR 05404-07	NSS	207,446
MOREHEAD, ROBERT P	A DATA SYSTEM FOR SURGICAL PATHOLOGY	R01GM 10401-04	COM	110,201
MYRVIK, QUENTIN N	FINE STRUCTURE OF ALVEOLAR MACROPHAGES	R01AI 05663-05	BM	26,040
MYRVIK, QUENTIN N	STUDIES ON NATURAL IMMUNITY	R01AI 05667-06	ALY	23,976
ODOR, D LOUISE	STUDIES ON EARLY REPRODUCTIVE PROCESSES IN MAMMALS	R01HD 00606-06	REB	12,198
PRICHARD, ROBERT W	STUDIES ON SPONTANEOUS ATHEROSCLEROSIS	R01HE 04352-09	PTHA	44,172
RICHARDSON, STEPHEN H	BIOCHEMISTRY OF VIBRIO CHOLERAE VIRULENCE	R22AI 07772-02	SSS	26,192
ROBERTS, R WINSTON	GLAUCOMA STUDY LOW TENSION AND EARLY GLAUCOMA	R01NB 00213-16	VIS	19,973
SCHMID, HERMAN E, JR	RENAL RENIN IN ALTERED HEMODYNAMIC STATES	R01HE 05948-08	CVB	29,420
SCHMID, HERMAN E, JR	AUTOREGULATION OF RENAL BLOOD PRESSURE-FLOW	R01HE 07842-06	CVB	8,810
SPURR, CHARLES L	COOPERATIVE CHEMOTHERAPY STUDIES IN ACUTE LEUKEMIA	R10CA 03927-11	SRC	98,119
STRITTMATTER, CORNELIUS F	PATTERNS AND CONTROL OF ENZYMIC DIFFERENTIATION	R01GM 09304-08	PC	24,964
SULKIN, NORMAN M	AGE AND ENVIRONMENT ON ULTRASTRUCTURE OF NEURONS	R01NB 00342-15	NEUA	24,836
TOOLE, JAMES F	CEREBRAL VASCULAR RESEARCH UNIT	P02NB 06655-03	NBPA	106,661
TOOLE, JAMES F	CAROTIN AND VERTEBRAL ARTERY DISEASE	R01HE 07622-06S1	NEUA	511
TOOLE, JAMES F	AORTOCRANIAL ATHEROSCLEROSIS	R01HE 07622-07	NEUA	65,115
WAINER, ARTHUR	THE METABOLISM OF CYSTINE	R01AM 07233-05	MET	10,543
WAITE, BENJAMIN M	STUDIES ON LIPOLYTIC ENZYMES OF THE LIVER	R01AM 11799-01	PC	29,827
WILLIAMS, JOHN E	DEVELOPMENT OF COLOR CONCEPTS AND RACIAL PREJUDICE	R01HD 02821-01	PCR	10,906
INSTITUTION TOTAL	51	1,632,509		
STATE TOTAL	355	18,347,664		
NORTH DAKOTA				
FARGO				
NORTH DAKOTA STATE UNIVERSITY				
PARSDNS, JESSE L	ANTIBIOSIS OF OPTICALLY ACTIVE HYDRASINO ACIDS	R01AI 08220-02	MBC	16,482
INSTITUTION TOTAL	1	16,482		
GRAND FORKS				
NORTH DAKOTA UNIVERSITY OF				
AUYONG, THEODORE	TOXICOLOGICAL STUDIES ON JUGLONE	R01HE 09652-02S1	PHRA	4,238
HARWOOD, T H	GENERAL RESEARCH SUPPORT GRANT	S01FR 05407-07	NSS	67,795
LEE, YA PIN	HORMONES ON CARBOHYDRATE METABOLISM	R01AM 07985-05S1	MET	72

TABLE 2—RESEARCH GRANTS, BY AREA, INSTITUTION, AND PRINCIPAL INVESTIGATOR

INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRG	DOLLARS
NORTH DAKOTA—(CON.)				
LEE, YA PIN	HORMONES ON CARBOHYDRATE METABOLISM	R0IAM 07985-06	MET	19,800
NORDLIE, ROBERT C	LIVER PYROPHOSPHATE-PHOSPHOTRANSFERASE ACTIVITIES	R0IAM 07141-05	BIO	30,970
RAY, PAUL D	HORMONE AND DIET CONTROL OF CARBOHYDRATE METABOLISM	R0IAM 12705-01	MET	30,483
STENBERG, VIRGIL I	INVESTIGATION OF AN ANTIMALARIAL AGENT	R0IAI 08136-01	MCHA	12,740
INSTITUTION TOTAL 7	166,098			
MINOT				
MINOT STATE COLLEGE				
LEIBY, PAUL D	ECOLOGY OF ECHINOCOCCUS MULTICULARIS	R0IAI 06633-04	TMP	18,902
INSTITUTION TOTAL 1	18,902			
STATE TOTAL 9	201,482			
OHIO				
AKRON				
AKRON CITY HOSPITAL				
NEWMAN, HOWARD A	EXPERIMENTAL ATHEROSCLEROSIS	R0IHE 10491-02S1	PTHA	2,935
SHARP, WILLIAM V	BIOELECTRIC PROPERTIES AND SMALL VESSEL PROSTHESES	R0IHE 10122-02S1	SGYB	1,455
SHARP, WILLIAM V	BIOELECTRIC PROPERTIES AND SMALL VESSEL PROSTHESES	R0IHE 10122-03	SGYB	20,514
INSTITUTION TOTAL 3	24,904			
AKRON UNIVERSITY OF				
HARWOOD, HAROLD JAMES	EXCHANGE RESINS FROM T-BUTYL N-VINYL CARBONATE	R0IAM 10887-02	MCHB	5,895
INSTITUTION TOTAL 1	5,895			
ATHENS				
OHIO UNIVERSITY				
MOORE, L E	IONIC CONDUCTANCE IN MYELINATED NERVE AT LOW TEMPERATUR	R0INB 07471-01	NEUB	22,301
PAUDLER, WILLIAM W	SYNTHESES OF NEW ALKYLATING AGENTS	R0ICA 07917-03S1	MCHA	3,390
INSTITUTION TOTAL 2	25,691			
BOWLING GREEN				
BOWLING GREEN STATE UNIVERSITY				
RENDINA, GEORGE	BRAIN PROTEIN SYNTHESIS IN RELATION TO MENTAL RETARDATI	R0INB 07906-01	MET	50,169
INSTITUTION TOTAL 1	50,169			
CINCINNATI				
CHILDREN'S HOSPITAL				
BERRY, HELEN K	METABOLIC DISORDERS AND MENTAL DEFICIENCY	R0IHD 00324-13	MET	61,114
KALTER, HAROLD	TERATOLOGICAL STUDIES WITH INBRED MICE	R0IHD 03502-01A1	HED	24,114
KAPLAN, SAMUEL	EXTRACORPOREAL CIRCULATION	R0IHE 02427-12	SGYA	24,132
KAPLAN, SAMUEL	SOLID ELECTRODE POLAROGRAPHY	R0IHE 08906-04	CVA	18,702
KAUDER, EMANUEL	LEUKOKINETICS AND CONTROL OF LEUKOCYTE PRODUCTION	R0IHD 02314-03	HEM	21,126
MAUER, ALVIN M	A STUDY OF LEUKOKINETICS IN ACUTE LEUKEMIA WITH DFP32	R0ICA 04826-09	PHRB	54,471
PRATT, EDWARD L	GENERAL CLINICAL RESEARCH CENTER - CHILDREN	M01FR 00123-05	CLR	271,387
PRATT, EDWARD L	GENERAL RESEARCH SUPPORT GRANT	S01FR 05535-06	NSS	110,539
SABIN, ALBERT B	ROLE OF VIRUSES IN MAMMALIAN MALIGNANT TUMORS	R0ICA 04557-09	VR	45,088
WARKANY, JOSEF	INTENSIFICATION OF RESEARCH IN MENTAL RETARDATION	P0IHD 02553-02	HDP	189,136
WARKANY, JOSEF	CONGENITAL MALFORMATIONS IN MAMMALS	R0IHD 00502-08	HED	79,511
WEST, CLARK D	IMMUNE ORIGINS OF CHRONIC GLOMERULONEPHRITIS	R0IAM 10885-02	ALY	2,876
WILSON, JAMES G	TERATOGENIC INTERACTION OF TWO OR MORE AGENTS	R0IHD 02792-01S2	HED	10,200
INSTITUTION TOTAL 13	912,396			
CINCINNATI UNIVERSITY OF				
ACHESON, GEORGE H	DRUG ACTION ON ION TRANSPORT AND CARDIAC CONTRACTION	R0IHE 01506-15	PHRA	430
ALTEMEIER, WILLIAM A	CENTER FOR COMPREHENSIVE CLINICAL STUDY OF TRAUMA	P0IGM 15428-01	GMP	337,283
BELL, EMILY J	METABOLIC CONTROL IN MIMA POLYMORPHA	R0IAI 08050-01	MBC	18,870
BERMAN, ALEX	STUDIES IN NINETEENTH-CENTURY FRENCH PHARMACY	R0IIM 00620-01	HLS	15,281
BLOOMFIELD, SAUL S	QUINIDINE PROPHYLAXIS AFTER ACUTE MYOCARDIAL INFARCTION	R0IHE 11817-01	CVA	20,929
BRODISH, ALVIN	REGULATION OF INTERIOR PITUITARY SECRETIONS	R0IAM 11496-02	END	33,537
BRYANT, SHIRLEY H	ELECTROPHYSIOLOGY AND PHARMACOLOGY OF MYOTONIC MUSCLE	R0INB 03178-07	PHRA	21,087
BUBEL, HANS C	BIOCHEMISTRY OF VIRUS INFECTIONS	R0IAI 03536-08	VR	13,353
CAMPBELL, IRENE R	BIBLIOGRAPHY ON FLUORIDATION OF PUBLIC WATER SUPPLIES	R0IDE 01493-06S1	NSS	177
CAMPBELL, IRENE R	BIBLIOGRAPHY ON FLUORIDATION OF PUBLIC WATER SUPPLIES	R0IDE 01493-07	NSS	26,087
CONWAY, GENE F	BINDING OF MYOCARDIAL F-ACTIN AND MYOSIN	R0IHE 08105-05	PC	9,798
CRANDALL, DANA I	ENZYME-COENZYME INTERACTION: OXYGEN TRANSFERASES	R0IGM 03193-15S1	PC	2,922
CRANDALL, DANA I	ENZYME-COENZYME INTERACTION OXYGEN TRANSFERASES	R0IGM 03193-16	PC	12,978
DAY, RICHARD A	MODE OF ACTION OF PENICILLINS ON BACILLUS CEREUS	R0IAI 06375-04	MBC	13,493
DEMBER, WILLIAM N	EXPERIMENTS IN VISUAL BACKWARD MASKING	R0INB 07622-03	EXP	20,484
DONALDSON, VIRGINIA H	HYDROLYTIC ENZYMES OF BLOOD IN HEALTH AND DISEASE	R0IHE 11933-01	HEM	12,798
FOULKES, ERNEST C	MECHANISM AND REGULATION OF ELECTROLYTE TRANSPORT	R0IHE 10346-03	PHY	41,631
FOWLER, NOBLE O	STUDY OF CIRCULATORY DYNAMICS	P0IHE 06307-07	HEM	179,839
GAFFNEY, THOMAS E	DRUGS AFFECTING ADRENERGIC CIRCULATORY MECHANISMS	R0IHE 07392-06	PHRA	32,389
GLUECK, HELEN I	DETERMINATION OF NATURAL CLOTTING FACTORS	R0IHE 02904-12	HEM	40,910

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INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRG	DOLLARS
OHIO—(CON.)				
GRULEE, CLIFFORD G. JR	GENERAL RESEARCH SUPPORT GRANT	SO1FR 05408-07	NSS	340,642
GRUPP, GUNTER	RELATION BETWEEN CATION TRANSPORT AND CARDIAC FUNCTION	RO1HE 04013-09S1	CVB	7,481
HAMBURGER, MORTON	STUDIES IN STAPHYLOCOCCAL INFECTION	RO1AI 03523-08	BM	27,267
HERSHEY, DANIEL	PROPERTIES OF PLASMA FILM IN BLOOD FLOW	RO1HE 08781-04	CVA	15,949
HESS, EVELYN V	EXPERIMENTAL NEPHROSIS IN RATS	RO1AM 09577-04	IMB	19,076
HESS, EVELYN V	EXPERIMENTAL AND CLINICAL INVESTIGATION IN RNA	RO1AM 12054-02	SSS	32,604
HESS, EVELYN V	IN VITRO DRUG STUDY IN SYSTEMIC LUPUS ERYTHEMATOSUS	RO1AM 12297-01	IMB	13,985
IACONO, JAMES M	LIPIDS OF THE FORMED ELEMENTS OF BLOOD	RO1HE 04728-09	HEM	30,881
KLEVAY, LESLIE M	IN VITRO STUDY OF THE CONTROL OF THE BILE ACID SYNTHESIS	RO1HE 11337-02	MET	22,674
KLINE, DANIEL L	MECHANISM OF ACTION OF PLASMINOGEN ACTIVATORS	RO1HE 11172-02	HEM	10,163
KNOWLES, HARVEY C. JR	GENERAL CLINICAL RESEARCH CENTER	MO1FR 00068-06	CLR	195,168
KNOWLES, HARVEY C. JR	DIABETES TREATMENT AND COMPLICATIONS	RO1AM 04401-08	SSS	33,103
KRUEGER, ROBERT C	ENZYMES INVOLVED IN DEOXYRIBONUCLEIC ACID METABOLISM	RO1GM 12421-03S1	BIO	5,798
LINGREL, JERRY B	MAMMALIAN MESSENGER RNA AND PROTEIN BIOSYNTHESIS	RO1GM 10999-04A1	BIO	13,976
LIPICKY, RAYMOND J	BIOPHYSICAL ASPECTS OF DISEASES OF SKELETAL MUSCLE	RO1NB 06782-02	NEUB	35,339
LOPER, JOHN C	GENETIC CONTROL OF ENZYME BIOSYNTHESIS	RO1GM 11079-06	GEN	19,430
MANDYBUR, TADEUSZ J	INDUCTION OF BRAIN AMYLOIDOSIS	RO1NB 07910-01	PTHB	1,599
MC CUSKEY, ROBERT S	A MICROSCOPIC STUDY OF HEPATIC ERYTHROPOIESIS IN VIVO	RO1AM 10507-03	HEM	18,668
MICHAEL, JACOB G	ANTIGENICITY OF CELLULAR COMPONENTS OF AN INTACT CELL	RO1AI 08344-01	ALY	20,335
MICHAELSON, I ARTHUR	SUBCELLULAR LOCALIZATION OF BIOGENIC AMINES IN BRAIN	RO1NB 06053-04	NEUB	20,348
OGLE, JAMES D	COLLAGEN AND PROTEINASE ACTIVE CENTERS	RO1AM 05867-07	BIO	22,140
OLINGER, CHARLES P	EXTRACRANIAL ARTERIAL OCCLUSION - JOINT STUDY	RO1HE 07003-07	SRC	48,205
RADFORD, EDWARD P. JR	CENTER FOR STUDY OF THE HUMAN ENVIRONMENT	P10ES 00159-02S1	ERT	15,363
RADFORD, EDWARD P. JR	CENTER FOR STUDY OF THE HUMAN ENVIRONMENT	P10ES 00159-03	ERT	840,896
ROMANO, ANTONIO H	METABOLIC CONTROL MECHANISMS IN FUNGI	RO1AI 04739-07	MBC	11,877
RUDNEY, HARRY	FORMATION OF BETA-HYDROXY-BETA-METHYLGLUTARYL COA	RO1AM 12402-01	PC	28,719
SCHIFF, GILBERT M	CLINICAL AND LABORATORY STUDIES ON RUBELLA	RO1HD 00737-04	VR	43,720
SCOTT, RALPH C	COMPUTER ANALYSIS OF ORTHOGONAL ELECTROCARDIOGRAMS	RO1HE 08578-05	CVB	31,061
SCOTT, RALPH C	COOPERATIVE STUDY OF DRUGS AND CORONARY HEART DISEASE	RO1HE 11369-02	SRC	66,102
SHUMRICK, DONALD A	CONSTRUCTION OF A LARYNGEAL ANALOG AFTER LARYNGECTOMY	RO1CA 10054-02S1	CMS	6,871
SHUMRICK, DONALD A	CONSTRUCTION OF A LARYNGEAL ANALOG AFTER LARYNGECTOMY	RO1CA 10054-03	CMS	35,518
SOMOZA, CESAR	FACTORS INFLUENCING LIPID METABOLISM	RO1HE 06015-09	MET	18,053
VEDRAL, DONALD F	PROPRICEPTION FROM MUSCLES INNERVATED BY CRANIAL NERVE	RO1NB 07485-01	NEUB	13,077
WERK, EMILE E. JR	STEROID METABOLISM IN CONVULSIVE DISORDERS	RO1NB 06238-03	END	19,917
WITHERUP, SYLVAN O	THE JOINT TOXIC ACTION OF HALOGENATED HYDROCARBONS	RO1ES 00348-01	TOX	26,531
WITTEGENSTEIN, EVA	BIOCHEMICAL PROTEIN STUDIES OF CATARACT	RO1NB 07091-02	VIS	23,826
YODAIKEN, RALPH E	CAPILLARIES IN SOUTH AFRICAN DIABETICS	RO1AM 12744-01	PTHA	13,107
INSTITUTION TOTAL	57	3,003,745		
INSTITUTUM DIVI THOMAE				
NUTINI, LEO G	EFFECTS OF MAGNETIC FIELDS ON CELLULAR METABOLISM	RO1CA 06642-06	BBC	8,400
INSTITUTION TOTAL	1	8,400		
JEWISH HOSPITAL OF CINCINNATI				
WEXLER, BERNARD C	CARDIOVASCULAR RESEARCH PROGRAM	PO1HE 06315-08	HEPA	104,112
WEXLER, BERNARD C	EXPERIMENTAL CEREBROVASCULAR DISEASE	RO1HE 08868-05	CVA	16,598
WEXLER, BERNARD C	GENERAL RESEARCH SUPPORT GRANT	SO1FR 05633-02	NSS	32,482
INSTITUTION TOTAL	3	153,192		
XAVIER UNIVERSITY				
MESSINEO, LUIGI	A STUDY OF DEOXYRIBONUCLEOPROTEINS	RO1CA 10554-01S1	BBCA	1,440
PETERS, JOSEPH J	ELECTROENCEPHALOGRAPHY OF DEVELOPING EMBRYO	RO1NB 00201-16	NEUA	6,900
INSTITUTION TOTAL	2	8,340		
CLEVELAND				
CASE WESTERN RESERVE UNIVERSITY				
ABRAHAMSON, EDWIN W	PHOTOCHEMISTRY OF PHOTORECEPTORS	RO1NB 02340-09	BBCA	32,255
ABRAMS, JEROME S	EXPERIMENTAL BILIARY ATRESIA	RO1AM 12140-01	SGYA	29,154
ADAMS, MARY	EXPLORATION OF ILLNESS CRISIS IN FAMILY OF THE AGED	RO1HD 02416-02	NR	46,613
ANDERSON, RUTH M	PLANNED CHANGE IN A UNIVERSITY MEDICAL CENTER	RO2NU 00310-01	NR	52,594
ANGUS, JOHN C	BIOCHEMICAL STUDIES WITH DOPPLER SHIFTED LASER LIGHT	RO1GM 14816-02	BBCB	23,643
ANKENEY, JAY L	EFFECT OF DRUGS ON PERIPHERAL AND HEPATIC CIRCULATION	RO1HE 08679-05	PHRA	37,036
ASTRACHAN, LAZARUS	PHYSIOLOGICAL GENETICS OF BACTERIOPHAGE INFECTION	RO1AI 08646-01	BIO	47,569
BADGER, GEORGE F	BIOMETRICS RESEARCH PROGRAM	PO1GM 12302-04	GMP	173,752
BENSUSAN, HOWARD B	MECHANISM OF COLLAGEN FORMATION	RO1AM 01825-10	BBCB	30,090
BERTHOLD, JEANNE S	PROCESS OF CONCEPT ATTAINMENT AND NURSES PREFERENCES	RO2NU 00130-04	NR	20,971
BIDDER, T GEORGE	PENETRATION OF CHEMICAL AGENTS INTO BRAIN	RO1NB 03035-06S1	PHRA	1,665
BIDDER, T GEORGE	PENETRATION OF CHEMICAL AGENTS INTO BRAIN	RO1NB 03035-08	PHRA	18,083
BLOCH, EDWARD H	CORRELATIVE SPLENIC MICROANATOMY & PATHOLOGY	RO1HE 09520-03	PTHA	31,231
BODANSZKY, MIKLOS	BIOCHEMISTRY OF PEPTIDE ANTIBIOTICS	RO1AI 07515-02	MCHB	51,537
BOYLE, PAUL E	GENERAL RESEARCH SUPPORT GRANT	SO1FR 05335-07	NSS	50,980
BRUELL, JAN H	BEHAVIORAL HETEROZIS IN HOUSE MICE	RO1HD 02589-03	GEN	13,302
CARLSON, DON M	CHEMISTRY AND BIOSYNTHESIS OF GLYCOPROTEINS	RO1AM 10335-03	PC	21,001
CARTER, CHARLES E	ANTIBIOTIC EFFECTS ON RNA SYNTHESIS	RO1AI 06604-05	BIO	17,413

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INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRG	DOLLARS
OHIO—(CON.)				
CARTER, CHARLES E	INHIBITION OF THYMIDYLATE METABOLISM IN LEUKEMIC CELLS	RO1CA 10383-01	PHRB	37,872
CASTON, J DOUGLAS	PROTEIN SYNTHESIS DURING EMBRYOGENESIS	RO1HD 00038-03S1	MBY	568
CASTON, J DOUGLAS	PROTEIN SYNTHESIS DURING EMBRYOGENESIS	RO1HD 00038-05	MBY	19,881
COHEN, CARL	INBREEDING AND IMMUNOLOGIC SELECTION IN RABBITS	RO1FR 00286-03	IMB	62,166
COHEN, CARL	BLOOD GROUPS IN THE RABBIT	RO1GM 10444-07	GEN	31,320
COOPER, CECIL A	ADENINE NUCLEOTIDE REACTIONS	RO1GM 05302-11	BIO	22,867
CORCORAN, JOHN W	CHEMISTRY AND BIOCHEMISTRY OF MACROLID GLYCOSIDES	RO1AE 06758-03	MBC	44,286
DANIEL, THOMAS M	ANTIBODY RESPONSE TO MYCOBACTERIAL ANTIGENS	RO1AI 07084-03	ALY	26,768
DE COSSE, JEROME J	KINETICS OF INTERPHASE IN ASCITES TUMOR CELLS	RO1CA 10381-02	PTHB	22,322
DEAN, BURTON V	THE DESIGN OF PREPAID DENTAL PLANS	RO1DH 00017-06	HSR	942
DOBYNS, BROWN M	THE RELATIONSHIPS OF EPS AND LATS TO EXOPHTHALMOS	RO1NB 07476-01	VIS	21,108
ECKEL, ROBERT E	CELL METABOLISM IN UREMIA	RO1AM 10172-02S1	HEM	2,540
ECKEL, ROBERT E	CELL METABOLISM IN UREMIA	RO1AM 10172-03	HEM	29,371
FLESHLER, BERTRAM	AMINO ACID ABSORPTION IN THE HUMAN SMALL INTESTINE	RO1AM 08780-04	GMA	24,468
FOLEY, JOSEPH M	COOPERATIVE TRIAL OF ACTH IN MULTIPLE SCLEROSIS	RO1NB 05840-04	SRC	21,636
FRIEDE, REINHARD L	CHEMICAL ARCHITECTURE AND PATHOLOGY OF THE BRAIN	RO1NB 06239-04	NEUB	83,400
FRIEDEL, HYMER L	CLINICAL RADIATION THERAPY CENTER PROGRAM	PQ2CA 08034-04	RAD	233,715
FRIEDMAN, LESTER	NEW SYNTHETIC APPROACHES TO POLYCYCLIC SYSTEMS	RO1CA 07909-03	MCHA	18,846
GABUZDA, GEORGE J	AMMONIA METABOLISM IN POTASSIUM DEPLETION	RO1AM 11484-02	GMB	13,258
GANN, DONALD S	HEMODYNAMIC CONTROL OF ADRENAL CORTICOID SECRETION	RO1AM 09054-05	END	23,593
GANN, DONALD S	ANGIOTENSIN-ALDOSTERONE SYSTEMS ANALYSIS	RO1AM 12751-01	GMB	38,425
GOLD, ELI	ASSEMBLY OF HERPES SIMPLEX PARTICLE	RO1AI 05570-06	VR	34,352
GOLD, ELI	IMMUNITY IN INFANTS, VIRUSES AND BACTERIAL PNEUMONIA	RO1AI 05770-05	VR	85,492
GOLDTHWAIT, DAVID A	STUDIES ON STRUCTURE, BIOSYNTHESIS, & FUNCTION OF RNA	RO1GM 06075-10	BIO	43,476
GOLDWYN, ALVIN J	DIABETES LITERATURE RETRIEVAL PROJECT	RO1AM 06399-07	SSS	47,603
GRAHAM, RICHARD C, JR	PATHOGENESIS OF THE ACUTE INFLAMMATORY RESPONSE	RO1AM 11308-02	RO1AM	22,723
GRASSO, JOSEPH A	STUDIES IN CELL DIFFERENTIATION	RO1AM 11896-01	HEM	20,041
GREGG, EARLE C	INFORMATION STORAGE AND RECALL IN SCINTISCANNING	RO1AM 06760-06	RAD	32,849
HAM, THOMAS H	MECHANISM OF DESTRUCTION OF RED CELLS	RO1HE 01263-16	HEM	32,794
HARRIS, JOHN W	STUDIES OF ERYTHROCYTE PRODUCTION & DESTRUCTION	RO1AM 00745-14	HEM	36,097
HAYNES, ROBERT C, JR	CONTROL OF GLUCONEOGENESIS BY ADRENAL HORMONES	RO1AM 01256-12	END	54,813
HEIPLE, KINGSBURY G	STUDIES IN BONE INDUCTION	RO1AM 06075-06	SGYB	27,318
HENDRICKS, CHARLES H	STUDIES IN UTERINE CONTRACTILITY	RO1HD 00264-13	HED	62,162
HEYMANN, WALTER	PATHOGENESIS AND ETIOLOGY OF THE NEPHROTIC SYNDROME	RO1AM 00044-17	GM	80,350
HIRSCHMANN, HANS	CHEMISTRY AND METABOLISM OF STEROIDS	RO1AM 09105-16S1	END	755
HIRSCHMANN, HANS	CHEMISTRY AND METABOLISM OF STEROIDS	RO1AM 09105-17	END	31,533
HOLDEN, WILLIAM D	CELLULAR AND SUBCELLULAR CHANGES IN SHOCK	RO1HE 10196-03	PTHA	49,313
HOPKINS, ROBERT W	STUDIES OF CLINICAL AND EXPERIMENTAL SHOCK	RO1GM 15685-01	SGYB	56,775
HORRIGAN, DANIEL L	METABOLISM OF ERYTHROPOIESIS	RO1CA 02501-14	HEM	12,626
HOSHKO, TOMUO	ION TRANSPORT ACROSS BIOLOGICAL MEMBRANES	RO1AM 05865-06	PHY	29,650
IMSANDE, JOHN D	REGULATION OF PROTEIN BIOSYNTHESIS	RO1HD 02168-03	BIO	40,348
INSULL, WILLIAM, JR	LIPID METABOLISM IN HUMAN ATHEROSCLEROSIS	RO1HE 05284-09	MET	35,177
JOHNSON, RICHARD T	CNS VIRUS DISEASES PATHOGENESIS & HOST DETERMINANTS	RO1NB 05244-04	VR	17,552
JONES, LOIS A	SELF ATTITUDES OF HOSPITALIZED ADOLESCENTS	R21NU 00217-02	NR	24,861
JOSEPHSON, ROBERT K	CONDUCTION AND INTEGRATION	RO1NB 06054-04	PHY	22,045
KALININS, VIKTORS	PULPAL INJURIES CAUSED BY GOLD FOIL RESTORATION	RO1DH 00095-02S1	DEN	3,414
KAPLAN, MELVIN H	IMMUNOLOGIC RELATION OF STREPTOCOCCAL ANTIGEN & HEART	RO1HE 03726-11	ALY	55,058
KEAN, EDWARD L	GLYCOLIPID METABOLISM AND DISTRIBUTION IN EYE TISSUE	RO1NB 07723-01	VIS	60,161
KELLERMEYER, ROBERT W	INFLAMMATION IN ACUTE GOUTY ARTHRITIS	RO1AM 07841-05	GMA	10,543
KENNEDY, JOHN H	A SELF-POWERED IMPLANTABLE CARDIAC PACEMAKER	RO1HE 09051-04	CVB	17,392
KLEIN, LE ROY	COLLAGEN BIOCHEMISTRY IN WOUND HEALING AND AGING	RO1HD 03429-01	GMB	37,888
KO, WEN H	MICROELECTRONIC LABORATORY SCIENCE	PO1GM 14267-02S2	GMP	519
KO, WEN H	MICROELECTRONIC LABORATORY FOR BIOMEDICAL SCIENCE	PO1GM 14267-03	GMP	209,096
KOENIG, JACK L	RAMAN SPECTRA OF THE CONFORMATION OF POLYMERS IN SOLN	RO1GM 14506-02	BBCB	26,639
KOHN, ROBERT R	AN INTERDISCIPLINARY PROGRAM OF RESEARCH IN AGING	PO1HD 00669-09	HDP	242,791
KRAMPTZ, L O	MECHANISM OF ACTION OF THIAMIN DIPHOSPHATE	RO1AI 00253-17	PC	62,926
KRIEGER, IRVIN M	RHEOLOGY OF PARTICULATE SUSPENSIONS	RO1HE 09415-03S1	BBCA	9,725
KRIEGER, IRVIN M	RHEOLOGY OF PARTICULATE SUSPENSIONS	RO1HE 09415-04	BBCA	48,387
KUSHNER, IRVING	BIOSYNTHESIS AND STRUCTURE OF ACUTE PHASE PROTEIN	RO1AI 08366-01	PTHB	15,712
KUWANA, THEODORE	ELECTROCHEMISTRY OF LUMINESCENCE AND EXCITED STATES	RO1GM 14036-03	BBCA	34,074
LEHMKUHL, DON	MOTONEURONE EXCITABILITY DURING CUTANEOUS STIMULATION	RO1NB 07506-01	NEUB	15,851
LEIGHNINGER, DAVID S	CORONARY ARTERY DISEASE - PHYSIOLOGY - SURGERY	RO1HE 02300-12S2	SGYA	1,126
LEONARDS, JACK R	HEMODIALYSIS AND GLUCOSE METABOLISM IN RENAL DISEASE	PO1AM 08294-05	AMP	41,138
LEVY, RICHARD P	GENETIC STUDY OF HUMAN THYROXINE-BINDING PROTEINS	RO1AM 11462-01	GEN	34,858
LIEBMAN, JEROME	VECTORCARDIOGRAPHY IN PREMATURES WITH NEWER ANALYSES	RO1HE 08286-05	CVB	25,633
LIEBOW, IRVING M	COOPERATIVE STUDY OF DRUGS AND CORONARY HEART DISEASE	RO1HE 10710-03	SRC	76,613
LITTLE, A BRIAN	HORMONE METABOLISM IN REPRODUCTION	RO1HD 02378-03	END	51,039
LOCKE, MICHAEL	CUTICLE FORMATION AND FINE STRUCTURE	RO1GM 09960-06	CBY	71,028
LOVE, DAVID S	CONTRACTION AND GLYCOGENOLYSIS AS IN MUSCLE DEVELOPMENT	RO1HD 01303-03S1	BIO	512
LOVE, DAVID S	ENDOCRINE REGULATION IN MUSCLE DEVELOPMENT	RO1HD 01303-04	BIO	25,667
MACINTYRE, M NEIL	THE CYTOGENETICS OF EMBRYONIC MALDEVELOPMENT	RO1HD 00549-07	GEN	44,847
MANNEY, THOMAS R	GENETIC AND BIOCHEMICAL ANALYSIS OF SUPER-SUPPRESSORS	RO1GM 14399-02	GEN	31,566
MATTHEWS, LE ROY W	CYSTIC FIBROSIS AND PULMONARY DISEASE	PO1AM 08305-05	AMP	93,074

TABLE 2—RESEARCH GRANTS, BY AREA, INSTITUTION, AND PRINCIPAL INVESTIGATOR

INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRG	DOLLARS
OHIO—(CON.)				
MC GREGOR, DOUGLAS D	IMMUNOLOGICAL ACTIVITY OF LYMPHOCYTES	RO1AI 06175-03S2	IMB	926
MILLER, MAX	UNIVERSITY GROUP DIABETES PROGRAM	RO1AM 05422-06S1	SRC	6,264
MILLER, MAX	UNIVERSITY GROUP DIABETES PROGRAM	RO1AM 05422-07	SSS	30,462
MOORE, ALLEN C	BIOMEDICAL SCIENCES SUPPORT GRANT	S05FR 07113-01	NSS	98,568
MOSKOWITZ, ROLAND W	SERUM NECROTIZING FACTOR IN RHEUMATIC DISEASE	RO1AI 06849-02	PTHA	21,888
MURPHY, JOHN R	ENERGY METABOLISM OF THE ERYTHROCYTE	RO1AM 02189-10	PC	15,979
NAFF, GEORGE B	ROLE OF COMPLEMENT IN SERUM BACTERICIDAL SYSTEMS	RO1AI 07353-03	ALY	37,117
NULSEN, FRANK E	SENSORY PATHWAYS IN BRAIN AND SPINAL CORD	RO1NB 00779-13	NEUB	32,656
OLAH, GEORGE A	BIO ALKYLATION, ACYLATION & PHOSPHORYLATION SYSTEMS	RO1GM 14082-02	MCHB	133,066
OSTROW, J DONALD	HEPATIC METABOLISM OF HEME AND BILE PIGMENTS	RO1AM 06840-06	MET	14,473
PEARSON, OLOF H	ENDOCRINE FACTORS INFLUENCING TUMOR GROWTH IN MAN	RO1CA 05197-09	GM	58,648
PENSKY, JACK	GENERATION AND INHIBITION OF HUMAN C 1 ESTERASE	RO1AI 06349-04	ALY	19,562
PERSKY, LESTER	AIDS TO THE EVALUATION OF UROLOGICAL DISEASE	RO1AM 10182-03	PTHA	12,129
PERSKY, LESTER	SURGICAL ADJUVANTS IN TREATMENT OF BLADDER CARCINOMA	RO1CA 07896-05	SRC	1,169
PLONSEY, ROBERT	MULTIPOLE SYSTEMS IN ELECTROCARDIOGRAPHY	RO1HE 10417-02	CVB	22,427
POMERANZ, JEROME R	IMMUNE RESPONSES TO CUTANEOUS CONTACT ALLERGENS	RO1AI 08455-01	IMB	18,438
POST, ROBERT S	COMPARATIVE RENAL IMMUNOPATHOLOGY	RO1AI 08148-01	PTHA	25,180
POST, ROBERT S	PROTEIN EXCRETION	RO1AM 10087-03	CVA	27,228
PRITCHARD, WALTER H	PATHOGENESIS OF HYPERTENSION AND CORONARY DISEASE	PO1HE 06304-07	HEP	379,497
RAKITA, LOUIS	CARDIAC HYPERTROPHY METABOLISM AND ULTRASTRUCTURE	RO1HE 09769-03	PTHA	17,215
RALL, THEODORE W	CYCLIC 3, 5 AMP IN ACTIONS OF NEUROHORMONES	RO1NB 05716-04	END	45,020
RATNOFF, OSCAR D	STUDIES ON HEMOSTATIC MECHANISMS	RO1HE 01661-16	HEM	35,801
RECKNAGEL, RICHARD O	TOXIC LIVER NECROSIS AND FATTY LIVER	RO1AM 01489-11	MET	70,007
REES, ALAN M	EDUCATION FOR HOSPITAL LIBRARY PERSONNEL	RO1LM 00422-02	MT	37,965
RESWICK, JAMES B	INVESTIGATION OF THE FUNCTIONAL MANDIBULAR MOVEMENTS	RO1DH 00076-03S1	DEN	14,941
RESWICK, JAMES B	INVESTIGATION OF THE FUNCTIONAL MANDIBULAR MOVEMENTS	RO1DH 00076-04	DEN	47,178
RHINELANDER, FREDERIC W	MICROCIRCULATION AND HISTOLOGY OF HEALING BONE	RO1AM 02579-10	SCYB	44,937
RHINELANDER, FREDERIC W	A BIOELECTRIC GENERATOR POWERED BY THE THORACIC CAGE	RO1GM 15204-02	CVA	15,429
ROBBINS, FREDERICK C	GENERAL CLINICAL RESEARCH CENTER-MATERNAL-CHILD	MO1FR 00210-04	CLR	305,373
ROBBINS, FREDERICK C	GENERAL RESEARCH SUPPORT GRANT	SO1FR 05410-07	NSS	308,119
ROTHCHILD, IRVING	A STUDY OF OVARIAN FOLLICULAR GROWTH AND ATRESIA	RO1HD 00028-05	END	37,736
ROUX, JACQUES F	SYNTHESIS AND TRANSPORT OF FAT IN FETUSES AND NEONATES	RO1HD 03261-02	MET	31,676
RYAN, KENNETH J	STERIOD HORMONE METABOLISM	RO1HD 03055-07	REB	69,205
SABLE, HENRY Z	STUDIES ON POLYHYDROXYCYCLOALKANES	RO1AM 07719-05	MCHA	54,124
SACHS, HOWARD	NEUROSECTION IN THE HYPOTHALAMUS	RO1AM 02650-10	END	43,233
SAKAMI, WARWICK	MAMMALIAN METHIONINE BIOSYNTHESIS	RO1AM 08098-05	PC	35,631
SCALETTA, LAWRENCE J	IN VIVO AND IN VITRO PROPERTIES OF LEUKOPLAKIC CELLS	RO1DE 02697-01	PTHB	20,042
SCHAFER, IRWIN A	RELATION OF BIOCHEMICAL DEFECTS TO CONGENITAL ANOMALIES	RO1HD 03448-01	HEP	31,325
SCHLOTTFELDT, ROZELLA M	SENSORY DEPRIVATION AND EFFECTIVE NURSE INTERVENTIONS	RO2NU 00068-05	CPR	103,102
SCHLOTTFELDT, ROZELLA M	RESEARCH DEVELOPMENT GRANT	RO2NU 00069-06	NR	74,650
SCHMIDT-NIELSEN, BODIL M	GENERAL BIOLOGY OF EXCRETORY MECHANISMS	PO1AM 09975-03	AMP	126,323
SCHMIDT, WILLARD C	IN VIVO DEGRADATION OF GROUP A STREPTOCOCCI	RO1AI 05224-06	ALY	21,003
SCHNEIDERMAN, HOWARD A	INSECT RESPIRATION AND METABOLISM	RO1HE 06320-08	TMP	68,315
SCHOENBERG, MELVIN D	ALTERATIONS OF THE RETICULOENDOTHELIAL SYSTEM	RO1AM 07161-05	PTHA	35,744
SCHWARTZ, ROBERT	CARBOHYDRATE METABOLISM IN THE NEWBORN	RO1AM 06795-05	MET	15,248
SCOTT, DAVID B	THE STRUCTURE AND PROPERTIES OF HUMAN DENTAL ENAMEL	RO1DE 02525-02	DEN	35,264
SCOTT, KENNETH A	ELECTRONIC ASPECTS OF MUSCARINIC ACTIVITY	RO1NB 07670-02	PHRA	25,211
SHARE, LEONARD	FACTORS AFFECTING LEVELS OF VASOPRESSIN IN BLOOD	RO1HE 06035-06	PHY	23,730
SHEAR, LEROY	PROTEIN METABOLISM AND TISSUE COMPOSITION IN UREMIA	RO1AM 11751-01	GMA	17,765
SHUSTER, CHARLES W	REGULATION AND CONTROL OF ENZYME SYNTHESIS	RO1AM 06802-06	PC	24,338
SIMPSON, SIDNEY B, JR	ANALYSIS OF THE ROLE OF THE EPENDYMA IN REGENERATION	RO1GM 12653-04	CBY	11,399
SINGER, MARCUS	REGENERATION AND THE TROPHIC ACTIVITY OF THE NEURON	RO1NB 07403-08	CBY	113,472
SOKOLLU, ADNAN	STUDY OF EYE PHYSIOLOGY AND DISEASE BY ULTRASOUND	RO1NB 03413-07	VIS	94,516
STAVITSKY, ABRAM B	SITES AND MECHANISMS OF ANTIBODY SYNTHESIS	RO1AI 01865-11	ALY	81,445
STEINBERG, ARTHUR G	NATURE AND DISTRIBUTION OF HUMAN GAMMA GLOBULIN FACTORS	RO1GM 07214-08	GEN	30,459
STENCHEVER, MORTON A	CYTOGENETICS OF HUMAN REPRODUCTIVE FAILURE	RO1HD 01665-03	GEN	30,061
STENGER, RICHARD J	STRUCTURAL PARAMETERS IN HEPATIC DISEASE	RO1AM 08416-05	PTHB	22,470
STERN, JOSEPH R	ENZYMES OF ACETOACETATE AND GLUTARATE METABOLISM	RO1AM 00739-13S1	BIO	17,372
STJERNHOLM, RUNE L	METABOLISM BY NORMAL AND LEUKEMIC LEUKOCYTES	RO1CA 10706-01	HEM	19,192
STUEHR, JOHN E	KINETIC INVESTIGATION OF BIOCHEMICAL REACTIONS	RO1GM 13116-02S1	MCHA	1,538
STUEHR, JOHN E	KINETIC INVESTIGATION OF BIOCHEMICAL REACTIONS	RO1GM 13116-03	MCHA	35,370
SUNDARALINGAM, MUTTAIYA	X-RAY STUDIES ON MONO-, DI- AND CYCLIC NUCLEOTIDES	RO1GM 14828-02	BBCB	45,262
SWIFT, TERRENCE J	STUDIES ON THE SOLVATION OF IONS	RO1NB 06910-02	BBCB	20,884
SWIFT, TERRENCE J	STATE OF WATER IN POLARIZED & DEPOLARIZED NERVES	RO1NB 07758-01	BBCB	20,490
TERNAY, ANDREW L	STEREOCHEMISTRY AND DRUG DESIGN - AN ARCHETYPE	RO1CA 10139-02	MCHA	19,555
TERR, ABBA I	HETEROGENEITY OF HUMAN SKIN-SENSITIZING ANTIBODIES	RO1AI 07652-02	ALY	15,149
TORRANCE, JANE TAYLOR	CHILDRENS REACTIONS TO INTRAMUSCULAR INJECTIONS	R21NU 00241-01	NR	27,915
UTTER, MERTON F	STRUCTURE OF BIOTIN-ENZYMES	RO1AM 12245-01	PC	145,150
UTTER, MERTON F	STUDIES ON ENZYMES AND NUCLEIC ACIDS	RO1GM 13971-03	PC	9,553
VANEK, HENRY G	TEST OF A CORRELATED DENTAL CURRICULUM	RO1DH 00069-03	HSR	52,693
WALLACE, WILLIAM M	BODY COMPOSITION AND FUNCTION	RO1HD 00382-10	NTN	40,701
WALTON, ALAN G	MECHANISM OF TISSUE MINERALIZATION IN BONE AND TEETH	RO1DE 02485-02	BBCB	12,479
WEBSTER, LESLIE T, JR	ENZYMIC CARBOXYL ACTIVATION	RO1AM 06853-06	PC	31,357

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INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRG	DOLLARS
OHIO—(CON.)				
WEED, LAWRENCE L	MORPHOLOGY OF BACTERIA AS RELATED TO FUNCTION	R01AI 05697-05	BM	11,047
WEISBERGER, AUSTIN S	DIRECTED PROTEIN SYNTHESIS	R01GM 12756-04	BIO	31,576
WEISBERGER, AUSTIN S	ANTIBIOTIC EFFECTS IN MAMMALIAN SYSTEMS	R01HE 03952-10	PHRA	37,323
WENTZ, WILLIAM B	ENDOMETRIAL CANCER CARCINOGENESIS AND TREATMENT	R01CA 10053-02S1	PTHB	8,577
WESTON, JAMES A	CONTROL OF CELL MIGRATION IN DEVELOPMENT	R01HD 03477-03S1	MBY	92
WESTON, JAMES A	CONTROL OF CELL BEHAVIOR AND PHENOTYPE IN DEVELOPMENT	R01HD 03477-04	MBY	27,565
WHEELLOCK, EARLE F	EFFECTS OF NONTUMOR VIRUSES ON VIRUS-LEUKEMIA IN MICE	R01CA 08709-03	VR	21,897
WHITE, LAWRENCE W	FACTORS REGULATING CHOLESTEROL BIOSYNTHESIS	R01AM 11574-02	PHRB	19,639
WHITE, ROBERT J	ISOLATED BRAIN RESEARCH	R01NB 03859-06A1	NEUA	34,181
WISOTZKY, JOEL	MICRO-PHOSPHORESCENCE STUDIES OF DENTAL DISEASE	R01DE 02371-02S1	DEN	1,111
WISOTZKY, JOEL	MICRO-PHOSPHORESCENCE STUDIES OF DENTAL DISEASE	R01DE 02371-03	DEN	13,208
WOOD, HARLAND G	MECHANISM OF ENZYME REACTIONS	R01GM 11839-05	PC	56,902
INSTITUTION TOTAL	176	7,679,150		
CLEVELAND CLINIC FOUNDATION				
BATTLE, JOHN D, JR	SOUTHWEST COOPERATIVE CHEMOTHERAPY GROUP	R10CA 04919-08S1	SRC	6,077
BATTLE, JOHN D, JR	SOUTHWEST CANCER CHEMOTHERAPY STUDY GROUP	R10CA 04919-09	SRC	40,434
BROWN, CHARLES H	PREVENTION OF HEPATITIS AFTER CARDIOVASCULAR SURGERY	R01HE 10228-02	SRC	23,652
BUMPUS, F MERLIN	CARDIOVASCULAR DISEASE	P01HE 06835-07	HEP	315,256
DUSTAN, HARRIET P	ADVISORY RENOVASCULAR HYPERTENSION BOARD	R01HE 10117-03	SRC	3,140
INSTITUTION TOTAL	5	388,559		
CUYAHOGA COUNTY CORONER'S OFFICE				
SUNSHINE, IRVING	THIN LAYER AND GAS CHROMATOGRAPHY IN TOXICOLOGY	R01GM 09863-06	PHRA	22,860
INSTITUTION TOTAL	1	22,860		
HIGHLAND VIEW HOSPITAL				
HORENSTEIN, SIMON	SENSORI MOTOR CONCOMITANTS OF HOMONYMOUS HEMIANOPIA	R01NB 05360-03S1	VIS	936
LONG, CHARLES	ELECTROMYOGRAPHIC KINESIOLOGY OF THE HAND	R01NB 02795-08	AFY	21,441
INSTITUTION TOTAL	2	22,377		
MOUNT SINAI HOSPITAL OF CLEVELAND				
CHARMS, BERNARD L	LUNG SURFACTANT, SYNTHESIS AND DEGRADATION	R01HE 09155-04	CVA	42,795
GENUTH, SAUL M	THE MECHANISM OF ACTH-STIMULATED INSULIN RELEASE	R01AM 10290-03	END	9,807
GOLDBLATT, HARRY	HYPERTENSION AND KIDNEY PROGRAM	P01HE 07308-07	HEPA	221,976
GOULD, ANNE B	RENIN AND ERYTHROPOIETIN	R01HE 11228-02	PTHA	13,696
LEVY, MATTHEW N	REFLEX CONTROL OF VENTRICULAR CONTRACTILITY	R01HE 10951-01	CVB	90,331
LEVY, MATTHEW N	THE RETICULOENDOTHELIAL SYSTEM IN SHOCK	R01HE 11674-01	PTHA	41,365
LEVY, MATTHEW N	GENERAL RESEARCH SUPPORT GRANT	S01FR 05658-01	NSS	38,507
INSTITUTION TOTAL	7	458,477		
OHIO STATE DEPARTMENT OF MENTAL HYGIENE AND CORRECTION--CLEVELAND PSYCHIATRIC INSTITUTE				
HINKO, EDWARD N	GENERAL RESEARCH SUPPORT GRANT	S01FR 05563-06	NSS	67,280
HORROCKS, LLOYD A	MYELIN PHOSPHOLIPIDS, FATTY ACIDS, AND ULTRASTRUCTURE	R01NB 05510-02S1	PC	890
HORROCKS, LLOYD A	MYELIN PHOSPHOLIPIDS, FATTY ACIDS, AND ULTRASTRUCTURE	R01NB 05510-03	PC	20,674
MASSOPIST, LEO C, JR	STUDIES ON AUDITORY SENSITIVITY	R01NB 04990-05	CMS	34,104
MASSOPIST, LEO C, JR	STUDIES IN BRAIN FUNCTION WITH HYPOTHERMIA	R01NB 06552-02	NEUA	18,862
SAMORAJSKI, THADDEUS	LIPOFUSCIN IN AGING NERVOUS SYSTEM	R01NB 03021-07S1	NEUB	6,140
SAMORAJSKI, THADDEUS	LIPOFUSCIN IN AGING NERVOUS SYSTEM	R01NB 03021-08	NEUB	24,663
SAMORAJSKI, THADDEUS	FUNCTIONAL LOCALIZATION OF CATECHOLAMINES	R01NB 03853-07	PTHA	31,745
INSTITUTION TOTAL	8	204,358		
ST. LUKE'S HOSPITAL OF THE METHODIST CHURCH				
CROSS, FREDERICK S	DEVELOPMENT OF INTRACARDIAC VALVE PROSTHESES	R01HE 08325-05	SGYB	46,268
CROSS, FREDERICK S	GENERAL RESEARCH SUPPORT GRANT	S01FR 05642-02	NSS	19,900
JONES, RICHARD D	LOCAL REGULATION OF SKELETAL MUSCLE BLOOD FLOW	R01HE 08573-04S1	PHY	6,876
JONES, RICHARD D	LOCAL REGULATION OF SKELETAL MUSCLE BLOOD FLOW	R01HE 08573-05	PHY	27,297
KLEINERMAN, JEROME I	EXPERIMENTAL INJURY AND REPAIR IN THE LUNG	R01ES 00264-02	PTHA	80,510
LEON, MYRON A	STUDIES OF THE COMPLEMENT AND CONGLUTININ SYSTEMS	R01AI 03104-09	ALY	62,507
WRIGHT, GEORGE W	EXPERIMENTAL INDUCTION OF EMPHYSEMA	R01HE 09187-04	CVB	43,059
INSTITUTION TOTAL	7	286,417		
ST. VINCENT CHARITY HOSPITAL				
KAY, EARLE B	DEVELOPMENT OF ARTIFICIAL HEART PROSTHESIS	R01HE 04581-09	SGYB	35,882
KAY, EARLE B	WIDESPREAD MYOCARDIAL REVASCULARIZATION	R01HE 10915-02	SGYB	29,608
LOYKE, HUBERT F	RELATION BETWEEN HYPERTENSION AND LIVER DISEASE	R01HE 04107-10	CVB	11,007
WHALEN, WILLIAM J	COMPARATIVE STUDY OF HEART FUNCTION	R01HE 11906-01	CVB	51,656
WHALEN, WILLIAM J	GENERAL RESEARCH SUPPORT GRANT	S01FR 05631-02	NSS	19,226
INSTITUTION TOTAL	5	147,379		
UNIVERSITY HOSPITALS OF CLEVELAND				
ROBBINS, FREDERICK C	GENERAL CLINICAL RESEARCH CENTER	M01FR 00080-06	CLR	292,882
ROBBINS, FREDERICK C	GENERAL CLINICAL RESEARCH CENTER FOR CHILDREN	M01FR 00087-05	CLR	131,649
INSTITUTION TOTAL	2	424,531		

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INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRG	DOLLARS
OHIO—(CON.)				
COLUMBUS				
AMERICAN COLLEGE OF VETERINARY PATHOLOGISTS				
BARRON, CHARLIE N	VETERINARY PATHOLOGY JOURNAL - PUBLICATION ASSISTANCE	R01GM 10337-05	PTHB	7,331
INSTITUTION TOTAL 1	7,331			
BATTELLE MEMORIAL INSTITUTE				
KIER, LEMONT B	SULFUR HETEROCYCLES AS ANTIMICROBIAL AGENTS	R01AI 07846-02	MCHB	12,591
INSTITUTION TOTAL 1	12,591			
CHILDREN'S HOSPITAL				
CRAMBLETT, HENRY G	CENTRAL NERVOUS SYSTEM VIRAL INFECTIONS AND SEQUELAE	R01NB 05409-03	VR	42,246
GRAHAM, BRUCE D	GENERAL CLINICAL RESEARCH CENTER FOR CHILDREN	M01FR 00078-06	CLR	260,457
KONTRAS, STELLA B	CAPILLARY DEVELOPMENT IN CONGENITAL HEART DISEASE	R01HE 10300-03	CVB	19,831
NEWTON, WILLIAM A. JR	CHILDRENS CANCER STUDY GROUP A	R10CA 03750-11	SRC	62,509
ROSTOMILY, CLIFFORD R	GENERAL RESEARCH SUPPORT GRANT	S01FR 05504-06	NSS	54,805
SOTOS, JUAN F	STUDIES IN INTRACELLULAR PH IN ANIMALS AND CHILDREN	R01HD 02436-01A1	CVB	38,033
INSTITUTION TOTAL 6	477,881			
OHIO STATE UNIVERSITY				
ACKERMAN, G ADOLPH	HISTOCHEMISTRY O CYTOLOGY OF HEMOPOIESIS	R01HE 04061-10	HEM	31,911
ALLEN, JAMES N	ACID HYDROLASES IN BRAIN AND PATHOLOGICAL STATES	R01CA 08543-04	NEUA	25,212
ALLRED, JOHN B	KETONE BODY SYNTHESIS IN THE CHICKEN	R01AM 12429-01	MET	9,883
BALCERZAK, STANLEY P	STUDIES OF IRON-CONTAINING ENZYMES	R01AM 12223-01	HEM	18,528
BALCERZAK, STANLEY P	INVESTIGATIONS ON IRON-CONTAINING ENZYMES	R01AM 12223-02	HEM	26,712
BATTINO, RUBIN	GAS SOLUBILITIES IN SELECTED SOLVENTS AND SOLUTIONS	R01GM 14710-02	CVB	28,497
BEAL, JACK L	TUMOR NECROTIZING ACTIVITY OF TUBEROUS BEGONIAS	R01CA 06028-07	PHRB	8,115
BEAL, JACK L	A PHYTOCHEMICAL SEARCH FOR MEDICINAL CONSTITUENTS	R01GM 05640-10	MCHB	26,515
BEAL, JACK L	PHYTOCHEMISTRY OF GENUS THALICTRUM	R01HE 07502-06	MCHB	16,911
BOURONCLE, BERTHA A	TISSUE CULTURE OF HUMAN BONE MARROW	R01CA 07922-03	HEM	12,391
BOZLER, EMIL	INITIATION OF ACTIVITY IN SMOOTH MUSCLE	R01AM 02527-10	PHY	13,458
BRIERLEY, GERALD P	ION TRANSPORT IN HEART MITOCHONDRIA	R01HE 09364-04	CBYB	30,372
BURKMAN, ALLAN M	HORMONE MODULATION OF EMETIC RESPONSIVENESS IN AVES	R01AM 12267-01	TOX	19,361
BUSCH, DARYLE H	LIGAND REACTIONS AND HOMOGENEOUS CATALYSIS	R01GM 10040-06	MCHB	90,824
BYERS, THOMAS J	NUCLEIC ACID AND PROTEIN SYNTHESIS IN ACANTHAMOEBA	R01AI 07739-02	MBY	22,104
CERILLI, G JAMES	INDUCTION OF TOLERANCE IN THE ADULT MOUSE AND DOG	R01AI 08577-01	IMB	25,110
COLE, CLARENCE R	GENERAL RESEARCH SUPPORT GRANT	S01FR 05463-06	NSS	83,579
CORNWELL, DAVID G	LIPOPROTEINS AND CELLULAR ORGANIZATION	R01GM 09506-07	PC	33,736
CORSON, SAMUEL A	PSYCHOPHYSIOLOGY & PSYCHOSOMATIC MEDICINE IN THE USSR	R01LM 00635-01	BCM	23,763
DAGIRMANJIAN, ROSE	EFFECT OF MAGNESIUM DEFICIENCY ON ADRENERGIC NEURONS	R01NB 06649-02	GMB	12,957
DOSKOTCH, RAYMOND W	ANTICANCER SUBSTANCES FROM PLANTS	R01CA 08133-03S1	MCHB	86
DOSKOTCH, RAYMOND W	ANTICANCER SUBSTANCES FROM PLANTS	R01CA 08133-04	MCHB	26,922
DOUGHERTY, RALPH C	MASS SPECTRAL STUDIES OF CHLORIN BIOGENESIS	R01AI 07571-02	MCHA	11,563
ENDAHL, GERALD L	GASTRIN LEVELS IN NORMAL AND ABNORMAL ACID SECRETION	R01AM 11145-01A1	GMA	15,509
FRAENKEL, GIDEON	EXCHANGE PROTOLYSIS OF MOLECULES IN SOLUTION	R01GM 08686-07	BBCB	27,207
GARRETT, ALFRED B	BIOMEDICAL SCIENCES SUPPORT	S05FR 07074-03	NSS	78,689
GASSMAN, PAUL G	HIGHLY STRAINED NITROGEN HETEROCYCLICS	R01CA 07110-05	MCHB	22,430
GEER, JACK C	PATHOGENESIS OF CORONARY ATHEROSCLEROSIS	R01HE 11897-01	PTHB	24,288
GOLDMAN, HAROLD	NEUROENDOCRINE MECHANISMS CONTROLLING ORGAN PERFUSION	R01NB 05526-04	PHRA	14,817
GREENBERGER, NORTON J	INTESTINAL ABSORPTION OF IRON	R01AM 10556-03	GMA	13,747
GREENBERGER, NORTON J	PREVENTION OF HEPATITIS AFTER CARDIOVASCULAR SURGERY	R01HE 11094-02	SRC	23,947
GROSSIE, JAMES A	INFLUENCE OF ADRENAL HORMONES ON MUSCLE RECEPTORS	R01NB 06578-03	PHY	1,504
GRUEMER, HANNS O	PHENYLALANINE METABOLISM IN PHENYLKETONURIA	R01HD 00774-05	MET	18,927
HAMLIN, ROBERT L	S-A-VENTRICULAR CONDUCTION	R01HE 11542-01	CVB	10,358
HANSON, KENNETH M	INTRA-HEPATIC CONTROL OF LIVER BLOOD FLOW	R01HE 11411-01	CVB	500
HILL, RICHARD M	RECEPTIVE FIELDS OF THE MESENCEPHALON	R01NB 05416-04	VIS	11,613
HILL, RICHARD M	NEURAL CODING IN THE VISUAL PATHWAYS	R01NB 06983-01	VIS	32,247
HINE, JACK	POLYFUNCTIONAL CATALYSIS OF HYDROGEN EXCHANGE	R01AM 10378-03	MCHB	31,758
HOLLANDER, PHILIP B	BIOPHYSICAL MECHANISMS OF INDUCED CARDIAC ARRHYTHMIAS	R01HE 09567-03	PHRA	28,646
HORTON, DEREK	SYNTHESIS OF BIOLOGICALLY IMPORTANT CARBOHYDRATES	R01GM 11976-05	MCHA	53,104
HOWLAND, DANIEL	THE NURSE-MONITOR IN A PATIENT-CARE SYSTEM	R02NU 00095-05	NR	82,433
HUDSON, JAMES F	DENTAL EDITORS WORKSHOP	R13DH 00129-04	NSS	11,990
HUNT, WILLIAM E	PRESSURE-FLOW RELATIONSHIPS OF BRAIN CIRCULATION	R01HE 09807-03	NEUA	12,444
INGERSOLL, RALPH W	EXPLORATORY STUDY FACTORS AFFECTING HEALTH MANPOWER	R21PM 00011-02	HSR	30,473
IVES, DAVID H	ANABOLIC CONTROL IN NORMAL AND NEOPLASTIC TISSUES	R01CA 06913-06	BIO	23,618
JENSEN, WALLACE N	STUDIES OF ERYTHROPOIESIS	R01HE 11896-01	HEM	43,348
JESSEPH, JOHN E	MUCOSAL EFFECTS OF GASTRIC AND INTESTINAL RESECTION	R01AM 10515-02S1	SGYA	2,056
JOHNSON, RALPH M	THE BIOCHEMICAL ROLE OF THE ESSENTIAL FATTY ACIDS	R01HE 05473-08	PC	25,309
KAPRAL, FRANK A	STUDIES ON IN VIVO GROWTH OF STAPHYLOCOCCI	R01AI 07826-02	BM	25,621
KLAPPER, MICHAEL H	DETERMINATION OF PROTEIN AGGREGATION EQUILIBRIA	R01GM 14741-02	BBCA	14,684
KREIER, JULIUS P	HEMOTROPIC PARASITE INFECTIONS, IMMUNOLOGY	R01AI 06108-05	TMP	24,108
LA PIDUS, JULES B	MEDICINAL CHEMICAL ASPECTS OF THE GEM-DIALKYL EFFECT	R01GM 12379-03	PHRA	21,282
LE BRIE, STEPHEN J	RENAL LYMPH AND RENAL FUNCTION	R01HE 11121-02	PHY	27,619

TABLE 2—RESEARCH GRANTS, BY AREA, INSTITUTION, AND PRINCIPAL INVESTIGATOR

INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRG	DOLLARS
OHIO—(CON.)				
LIPSKY, JOSEPH A	CO2 TRANSIENTS ASSOCIATED WITH HYPERVENTILATION	RO1HE 08078-05	PHY	15,470
LISS, LEOPOLD	EXPERIMENTAL MODEL OF PHENYLKETONURIA-LIKE CONDITIONS	RO1NB 06905-02	PTHB	30,293
MARKS, BERNARD H	DISTRIBUTION AND METABOLISM OF LABELED DIGITALOIDS	RO1HE 07051-07	PHRA	25,530
MARTIN, GEORGE F	A COMPARATIVE STUDY OF THE EXTRAPYRAMIDAL SYSTEM	RO1NB 07410-01	NEUB	12,349
MC CLUER, ROBERT H	CHEMISTRY, METABOLISM AND IMMUNOLOGY OF GANGLIOSIDES	RO1NB 05222-05	PC	28,180
MC CLUER, ROBERT H	BRAIN RNA AND ITS RESPONSE TO ENVIRONMENTAL EVENTS	RO1NB 06615-03	PC	34,726
MC CONNELL, DAVID G	CHEMICAL STUDIES OF STIMULATED RETINA	RO1NB 04452-05S3	VIS	22,696
MC CONNELL, DAVID G	CHEMICAL STUDIES OF STIMULATED RETINA	RO1NB 04452-06	VIS	48,188
MECK, DEVON W	COORDINATION OF PHOSPHINE SULFIDES AND SELENIDES	RO1ES 00170-03	MCHB	17,683
MEILING, RICHARD L	GENERAL CLINICAL RESEARCH CENTER	MO1FR 00034-08	CLR	380,551
MEILING, RICHARD L	GENERAL RESEARCH SUPPORT GRANT	SO1FR 05409-07	NSS	468,187
MENDICINO, JOSEPH F	ROLE OF ENZYME INTERACTIONS IN METABOLIC REGULATION	RO1AM 10341-02	PC	26,042
MENGL, CHARLES E	TRYPTOPHAN IN NEOPLASTIC & HEMATOLOGIC DISEASE	RO1CA 08699-04	MET	20,481
MENGL, CHARLES E	EFFECT OF HYPEROXIA ON NORMAL AND NEOPLASTIC CELLS	RO1CA 08702-04	PHRB	27,928
MEROLA, ARMANDO J	DRUG-ORGANISM INTERACTIONS	RO1AM 11006-02	PHRB	11,042
MOORE, RICHARD O	HORMONAL REGULATION OF CELLULAR PROCESSES	RO1AM 04241-08	MET	11,144
MYERS, THEODORE B	NEURO-RESPIRATORY REFLEXES	RO1NB 04768-06	PHY	20,609
NELSON, RICHARD C	EFFECT OF ORDER ON ENERGY LEVELS IN SENSITIZERS	RO1GM 12835-02S1	BBCA	315
NELSON, RICHARD C	EFFECT OF ORDER ON ENERGY LEVELS IN SENSITIZERS	RO1GM 12835-03	BBCA	16,912
NEWMAN, H A	STUDIES IN EXPERIMENTAL ATHEROSCLEROSIS	RO1HE 12386-01	PTHA	36,857
NEWMAN, MELVIN S	QUINONES RELATED TO 9,10 DIMETHYL 1,2 BENZANTHRACENE	RO1CA 07394-04	MCHA	19,884
NISHIKAWA, MARGARET T	FACTORS AFFECTING GLUTAMIC DEHYDROGENASE	RO1AM 07265-05	MET	13,392
PAQUETTE, LEO A	4N PI NITROGEN HETEROCYCLES	RO1GM 14853-02	MCHB	24,471
PARKS, LLOYD M	GENERAL RESEARCH SUPPORT GRANT	SO1FR 05607-02	NSS	39,685
PATIL, POPAT N	INTERACTIONS OF ADRENERGIC BLOCKERS	RO1HE 11556-01	PHRA	6,957
PIEPER, HEINZ P	HEMODYNAMIC STUDIES	RO1HE 06593-07	PHY	13,638
REINER, CHARLES B	TISSUE HEPARIN LEVELS IN FETUS AND NEWBORN	RO1HD 00665-05S1	PTHA	1,854
RICHARDSON, KEITH E	ENZYME CHARACTERIZATION IN HEMOLYTIC ANEMIAS	RO1AM 07286-05	HEM	28,084
ROBERTSON, ALEX F	LIPID METABOLISM IN THE HUMAN PLACENTA	RO1HD 02675-03	MET	19,270
ROSEN, SAMUEL	INHERITED CARRIES RESISTANCE IN GNOTOBIOTIC ANIMALS	RO1DE 02058-05	DEN	23,164
ROSEN, SAMUEL	TAXONOMIC STUDY OF CARIOGENIC BACTERIA	RO1DE 02719-01A1	DEN	27,729
ROTHENBUHLER, WALTER C	GENETIC ANALYSIS OF RESISTANCE TO AMERICAN FOULBROOD	RO1AI 05459-06	TMP	19,200
ROTHENBUHLER, WALTER C	GENETIC BASES OF BEHAVIOR DIFFERENCES	RO1HD 00368-06	GEN	25,736
SAUNDERS, WILLIAM H	HUMAN TEMPORAL BONE PATHOLOGY	RO1NB 05816-04	CMS	23,465
SERIF, GEORGE S	CONTROL OF THYROID INTERMEDIARY METABOLISM	RO1AM 11430-02	END	20,043
SIRAK, HOWARD D	MYOCARDIAL METABOLISM OF HYPOTHERMIA	RO1HE 05273-07S1	SGYB	22,098
SOKOLOSKI, THEODORE D	EFFECT OF DIFFUSION COEFFICIENTS ON DRUG ABSORPTION	RO1GM 12998-03	PHRA	7,130
SOMERSON, NORMAN L	PULMONARY PHYSIOLOGY IN INFECTION WITH MYCOPLASMAS	RO1AI 08587-01	BM	30,570
SPRECHER, HOWARD W	POLYUNSATURATED FATTY ACID INTERCONVERSIONS	RO1AM 09758-03	PC	21,179
STOW, RICHARD W	QUANTITATION OF BLOOD CELL FLOW IN SINGLE CAPILLARIES	RO1HE 10792-02	CVB	19,684
THOMFORD, NEIL R	THE ROLE OF BILE IN HEPATIC REGENERATION	RO1AM 12553-01	SGYB	13,829
TOMPKINS, RONALD K	ROLE OF BILIARY PHOSPHOLIPIDS IN GALLSTONE FORMATION	RO1AM 12178-01	GMA	14,429
VAN DEMARK, N L	FACTORS CONTROLLING TESTICULAR TISSUE METABOLISM	RO1GM 12247-05	HED	32,548
VASKO, JOHN S	CORONARY CIRCULATION AND MYOCARDIAL FUNCTION	RO1HE 11057-02	SGYB	23,514
VENARD, CARL E	STUDIES ON LARVAL AND ADULT MOSQUITOES	RO1AI 00528-19	TMP	22,526
VON HAAM, EMMERICH	SPONTANEOUS AND EXPERIMENTAL ENDOMETRIAL CARCINOMA	RO1CA 05747-07	PTHB	14,779
WARREN, JAMES V	BIOLOGY OF THE HEART	PO1HE 09884-04	HEP	191,934
WARREN, JAMES V	A CORE FACILITY FOR A CARDIOVASCULAR RESEARCH PROGRAM	PO1HE 11504-01	HEPB	323,574
WARREN, JAMES V	FACTORS DETERMINING CARDIAC OUTPUT IN MAN	RO1HE 06414-08	CVA	18,160
WARREN, JAMES V	ESTABLISHMENT OF A CARDIOVASCULAR RESEARCH CENTER	RO1HE 11036-02	HEPB	47,821
WEISS, HAROLD S	BLOOD PO2 ARTERY O2 RELATIONSHIPS IN ATHEROSCLEROSIS	RO1HE 09026-05	MET	11,485
WILSON, HENRY E	SOUTHWEST COOPERATIVE CHEMOTHERAPY STUDY GROUP	R10CA 04920-09	SRC	31,480
WILSON, JOHN R	GENERAL RESEARCH SUPPORT GRANT	SO1FR 05334-07	NSS	51,697
WINTER, CHESTER C	CHEMO- AND RADIOTHERAPY TREATMENT OF BLADDER CANCER	RO1CA 07761-05	SRC	4,832
WINTER, CHESTER C	COOPERATIVE STUDY OF RENOVASCULAR HYPERTENSION	RO1HE 06644-07	SRC	4,132
WOELFEL, JULIAN B	VARIED POSTERIOR OCCLUSIONS IN DENTURE PATIENTS	RO1DE 00548-10S1	DEN	627
WOELFEL, JULIAN B	VARIED POSTERIOR OCCLUSIONS IN DENTURE PATIENTS	RO1DE 00548-11	DEN	6,938
WOLFF, DAVID A	LYSOSOMES IN VIRAL-INDUCED CYTOPATHOLOGIES	RO1AI 07156-03	VR	21,532
WOLFROM, MELVILLE L	DEOXYRIBONUCLEOSIDE AND RELATED CARCINOGENS	RO1CA 03232-12	MCHA	61,748
WOLFROM, MELVILLE L	STRUCTURAL INVESTIGATIONS ON MUCOPOLYSACCHARIDES	RO1HE 11489-01	MCHA	21,678
ZOLLINGER, ROBERT M	PURIFICATION AND CHARACTERIZATION OF GASTRIN	RO1AM 07864-03S1	GM	4,605
INSTITUTION TOTAL	114	3,939,070		
DAYTON				
CHARLES F. KETTERING FOUNDATION				
KE, BACON	STRUCTURE AND FUNCTION OF PHOTOSYNTHETIC APPARATUS	RO1GM 12275-03S1	BBCA	858
INSTITUTION TOTAL	1	858		
DAYTON UNIVERSITY OF				
JAFFEE, OSCAR C	HEMODYNAMIC FACTORS IN CARDIAC DEVELOPMENT	RO1HE 11432-01	HED	16,187
INSTITUTION TOTAL	1	16,187		
VISITING NURSES ASSOCIATION				
GISCLARD, J BRENNAN	APPLIANCES FOR IMPROVING NURSING CARE OF QUADRAPLEGICS	RO2NU 00280-01	NR	10,325

TABLE 2—RESEARCH GRANTS, BY AREA, INSTITUTION, AND PRINCIPAL INVESTIGATOR

INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRG	DOLLARS
OHIO—(CON.)				
INSTITUTION TOTAL	1	10,325		
WRIGHT STATE UNIVERSITY				
BATRA, PREM P	MECHANISM OF PHOTOINDUCED CAROTENOID SYNTHESIS	R01AM 10702-02	PC	20,166
INSTITUTION TOTAL	1	20,166		
DELAWARE				
OHIO WESLEYAN UNIVERSITY				
BAHRICK, HARRY P	RECOGNITION AND RECALL DURING ACQUISITION AND RETENTION	R01HD 00926-07	NP	16,563
INSTITUTION TOTAL	1	16,563		
GRANVILLE				
DENISON UNIVERSITY				
SPESSARD, DWIGHT R	SYNTHESIS OF PHOSPHONATE ESTERS AS BIS-ALKYLATING AGENTS	R01CA 06893-06	MCHA	4,512
INSTITUTION TOTAL	1	4,512		
KENT				
KENT STATE UNIVERSITY				
FOOTE, BENJAMIN A	BIOLOGY OF THE GENUS TETANOCERA AND RELATED DIPTERA	R01AI 04790-06S1	TMP	1,817
RICCIO, DAVID C	PERSISTENCE OF STRESS EFFECTS AS A FUNCTION OF AGE	R01HD 02398-02	EPR	12,233
TAHK, FREDERICK C	A SYNTHESIS OF CRININE AND MESEMBRINE	R01GM 14222-02	MCHA	9,337
INSTITUTION TOTAL	3	23,387		
KETTERING				
COX CORONARY HEART INSTITUTE				
DE WALL, RICHARD A	HEART MUSCLE CHEMISTRY DURING FAILURE AND RECOVERY	R01HE 10913-01S1	SGYA	13,218
KEZDI, PAUL	QUANTITATIVE ANALYSIS OF CARDIOVASCULAR DISEASE	P01HE 09885-03	HEP	132,450
INSTITUTION TOTAL	2	145,668		
OBERLIN				
OBERLIN COLLEGE				
MC COLLOUGH, CELESTE F	FACTORS INFLUENCING BORDER-SPECIFIC CDOR ADAPTATION	R01NB 07808-01	EXP	22,601
INSTITUTION TOTAL	1	22,601		
OXFORD				
MIAMI UNIVERSITY				
DE VILLEZ, EDWARD J	COMPARATIVE INVESTIGATION OF DIGESTIVE PROTEINASES	R01AM 10338-03	PC	11,372
WILLIAMSON, CLARENCE K	MOLECULAR TAXONOMY OF VIRIDANS STREPTOCOCCI OF MAN	R01AI 06789-04	BM	6,827
INSTITUTION TOTAL	2	18,199		
TOLEDO				
MEDICAL COLLEGE OF OHIO AT TOLEDO				
NELSON, LEONARD	SUBMICROSCOPIC BASES OF MALE INFERTILITY	R01HD 03266-01	REB	93,475
INSTITUTION TOTAL	1	93,475		
TOLEDO UNIVERSITY OF				
BECK, SIDNEY L	STUDIES IN MAMMALIAN GENETICS AND TERATOGENESIS	R01HD 02653-03	GEN	15,230
BLOCK, PAUL	SYNTHESIS OF THYROXINE ANALOGS	R01AM 09988-03	MCHB	21,714
PRIBOR, DONALD B	FREEZE-THAW DAMAGE TO HUMAN ERYTHROCYTES	R01HE 12114-01	HEM	16,066
INSTITUTION TOTAL	3	53,010		
WESTERVILLE				
OTTERBEIN COLLEGE				
HERSCHLER, MICHAEL S	CYTOGENETIC ASPECTS OF EMBRYONIC SEXUAL DEVELOPMENT	R01HD 01870-03	HED	12,908
INSTITUTION TOTAL	1	12,908		
WOOSTER				
OHIO AGRICULTURAL RESEARCH AND DEVELOPMENT CENTER				
KNULLE, W	WATER BALANCE AND NUTRITION IN MITES AND INSECTS	R01AI 04434-07	PHY	46,565
INSTITUTION TOTAL	1	46,565		
YELLOW SPRINGS				
ANTIOCH COLLEGE				
YALMAN, RICHARD G	FORMATION AND PROPERTIES OF PEROXO-COBALT COMPLEXES	R01GM 04458-13	MCHB	19,316
INSTITUTION TOTAL	1	19,316		
CHARLES F. KETTERING FOUNDATION -RESEARCH LABORATORY				
DARROW, ROBERT A	METABOLIC CONTROL IN REACTIONS OF NUCLEOTIDE SUGARS	R01AM 11661-02	PC	31,264
LAMBORG, MARVIN R	THE SIGNIFICANCE OF METHYLATED MESSENGER RNA	R01CA 08389-03	BIO	20,544
LANGAN, THOMAS A	PROPERTIES AND FUNCTION OF NUCLEAR PHOSPHOPROTEINS	R01CA 10278-02	MBY	14,217
MOLLENHAUER, HILTON H	ELECTRON MICROSCOPY OF REPLICATING GOLGI APPARATUS	R01GM 15492-01	CBY	22,217
SAN PIETRO, ANTHONY	HYDROGEN ACTIVATION AND TRANSFER IN BIOLOGICAL SYSTEMS	R01GM 10129-06	PC	14,678
INSTITUTION TOTAL	5	102,920		
FELS RESEARCH INSTITUTE				
ARMSTRONG, MARVIN D	BLDOD AND URINE AMINO ACIDS DURING GROWTH	R01HD 01202-09	NTN	20,938

TABLE 2—RESEARCH GRANTS, BY AREA, INSTITUTION, AND PRINCIPAL INVESTIGATOR

INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRG	DOLLARS
OHIO—(CON.)				
COLBERT, CHARLES	BIOPHYSICAL PROPERTIES OF NORMAL AND DISEASED BONE	RO1AM 11005-02	SSS	61,828
GARN, STANLEY M	RELATIONSHIPS IN BONE GROWTH	RO1AM 03816-09	MET	27,720
GARN, STANLEY M	CHANGES IN COMPACT BONE WITH AGE	RO1AM 08255-05	NTN	26,040
ISRAEL, HARRY	FAMILY LINE DETERMINANTS OF DENTAL DEVELOPMENT	RO1DE 01294-08	DEN	47,911
SONTAG, LESTER W	COMPUTER FACILITY	P07FR 00222-06	COM	303,147
SONTAG, LESTER W	MULTIDISCIPLINARY STUDIES IN HUMAN DEVELOPMENT	RO1HD 00868-12	MNHB	52,618
SONTAG, LESTER W	GENERAL RESEARCH SUPPORT GRANT	S01FR 05537-06	NSS	66,749
VARANDANI, PARTAB T	INSULIN DEGRADATION AND FORMATION	RO1AM 03854-09	END	47,918
INSTITUTION TOTAL	9	654,869		
STATE TOTAL	453	19,525,242		
OKLAHOMA				
NORMAN				
OKLAHOMA UNIVERSITY OF				
BLOOMFIELD, JORDAN JAY	A STUDY OF THE PHYTOCHEMISTRY OF THE GENUS CNIDOSCOLUS	RO1GM 14438-02	MCHB	16,126
LANCASTER, JOHN H	STUDIES ON THE MECHANISMS OF CONJUGATION IN ESCHERICHIA	RO1AI 07221-03	MBC	16,888
SELF, J TEAGUE	PENTASTOMIDA HOST-PARASITE RELATIONS AND HUMAN PATHOLOG.	RO1NB 04961-05	TMP	31,128
VAN DER HELM, DICK	STUDY OF PEPTIDE CHELATES AND METALLO-ENZYMES	RO1GM 10514-06	BBCB	21,322
INSTITUTION TOTAL	4	85,464		
OKLAHOMA CITY				
ENDOCRINE SOCIETY				
WILHELM, ALFRED E	TRAVEL TO 3RD INTERNATIONAL CONGRESS OF ENDOCRINOLOGY	R13AM 12398-01	NSS	20,000
INSTITUTION TOTAL	1	20,000		
OKLAHOMA CITY UNIVERSITY				
CAHILL, CHARLES L	STRUCTURE ACTIVITY STUDIES ON GONADOTROPINS	RO1AM 06401-06	END	29,706
DIERSCHKE, DONALD J	RADIOIMMUNOLOGICAL STUDIES ON PITUITARY GONADOTROPINS	RO1AM 10754-02	END	14,108
INSTITUTION TOTAL	2	43,814		
OKLAHOMA MEDICAL RESEARCH FOUNDATION				
ABELL, CREED W	BIOCHEMISTRY OF NORMAL AND LEUKEMIC LYMPHOCYTES	RO1CA 10683-01	PC	35,602
ALAUPOVIC, PETAR	COMPOSITION AND STRUCTURE OF SERUM LIPOPROTEINS	RO1HE 06221-07	PC	45,049
ALAUPOVIC, PETAR	STRUCTURE AND FUNCTION OF LIPOPOLYSACCHARIDES	RO1HE 10575-06	PC	28,459
BOTTOMLEY, RICHARD H	METABOLIC STUDIES OF NORMAL AND NEOPLASTIC TISSUES	RO1CA 06420-07	PHRB	59,801
BRADFORD, REAGAN H	STUDIES OF LIPID TRANSPORT AND METABOLISM	RO1HE 06915-07	MET	35,608
CARPENTER, MARY P	METABOLISM OF THE TESTIS IN VITAMIN E DEFICIENCY	RO1AM 05386-06S1	MET	11,862
CARPENTER, MARY P	METABOLISM OF THE TESTIS IN VITAMIN E DEFICIENCY	RO1AM 05386-07A1	NTN	36,966
CARUBELLI, RAUL	MAMMALIAN NEURAMINIDASE S ACTIVITY AND SPECIFICITY	RO1AI 04954-06	PC	25,911
CHANDLER, ALBERT M	INJURY AND PLASMA GLYCOPROTEIN BIOSYNTHESIS	RO1AM 11540-02	MET	31,926
CONDIT, PAUL T	CANCER CLINICAL RESEARCH	P02CA 05815-08	SSS	191,628
CONDIT, PAUL T	MECHANISM OF ACTION OF THE FOLIC ACID ANTAGONISTS	RO1CA 08934-01A1	PHRB	37,108
DELANEY, ROBERT	IMMUNOGLOBULINS AMINO ACID SEQUENCE AND HOMOLGY	RO1GM 15182-02	BM	24,599
ELIEL, LEONARD P	PARATHYROID FUNCTION IN MAN	RO1AM 09910-03	END	41,217
ELIEL, LEONARD P	GENERAL RESEARCH SUPPORT GRANT	S01FR 05538-06	NSS	204,189
FURMAN, ROBERT H	CLINICAL CARDIOVASCULAR RESEARCH	PO1HE 07005-07	HEP	105,401
FURMAN, ROBERT H	ENDOCRINE-NUTRITIONAL LIPID FACTORS IN ATHEROGENESIS	RO1HE 02528-12	NTN	141,026
GRIFFIN, MARTIN J	ACTION OF HYDROCORTISONE IN NEOPLASTIC CELLS	RO1CA 10614-01	PHRB	35,525
JOHNSON, B CONNOR	ON THE FUNCTION OF VITAMIN K	RO1AM 10282-03A1	NTN	42,344
JOHNSON, B CONNOR	MECHANISM OF ACTION OF VITAMIN B12	RO1AM 10283-04	MET	52,154
LESTER, BOYD K	CARDIAC FUNCTION DURING SLEEP IN CORONARY PATIENTS	RO1HE 11623-01	NEUA	21,449
MC CAY, PAUL B	PHOSPHOLIPID FATTY ACIDS IN VITAMIN E DEFICIENCY	RO1AM 06978-06	NTN	19,542
MC CAY, PAUL B	OXIDASE INHIBITORS IN VITAMIN E DEFICIENCY	RO1AM 08397-08	PC	32,696
MC CAY, PAUL B	PURIFICATION AND PROPERTIES OF GULONOLACTONE OXIDASE	RO1GM 08182-07	BIO	20,794
TANG, JORDAN J	STUDIES OF COMPONENTS OF HUMAN GASTRIC JUICE	RO1AM 01107-12	PC	46,987
TANG, JORDAN J	FACILITIES FOR THE STUDY OF THE PROPERTIES OF PROTEINS	RO1AM 06487-06	PC	20,775
TANG, JORDAN J	PROPERTIES OF THE GASTRIC ZYMOGEN GRANULE	RO1AM 09312-03S1	PC	1,077
UNGER, LEON	SUPPRESSOR GENE ALTERATION OF REGULATION	RO1AI 08175-01	MBC	31,589
VEGA, ARTHUR	DEFICITS IN BRAIN DAMAGE	RO1NB 05359-04	CPR	45,176
INSTITUTION TOTAL	28	1,426,460		
OKLAHOMA UNIVERSITY OF				
ANGLIN, J H, JR	METABOLISM OF TAGGED EPIDERMAL PHOTO PRODUCTS	RO1AM 09161-04	BIO	13,402
ANGLIN, J HILL, JR	ULTRAVIOLET INDUCED BIOCHEMICAL CHANGES IN SKIN	RO1AM 05278-07	GMA	46,385
BAYLEY, ROBERT H	ELECTRONIC COMPUTATION OF AREAS OF ECG DEFLECTIONS	RO1HE 01499-11	CVB	17,187
BOTTOMLEY, SYLVIA S	METABOLIC STUDIES IN REFRACTORY ANEMIA	RO1HE 07499-06S1	HEM	1,507
BRANDT, EDWARD N, JR	EPIDEMIOLOGICAL STUDY OF CEREBROVASCULAR DISEASE	RO1HE 09698-03	SRC	5,944
BULMER, GLENN S	THE PATHOGENESIS OF CRYPTOCOCCOSIS	RO1AI 05022-05	BM	17,575
COTTEN, MARION DE V	DRUG ACTION DURING HYPOTHERMIA	RO1HE 06820-07	PHRA	28,072
DARON, GARMAN H	MORPHOLOGICAL STUDY OF CEREBELLAR NUCLEI	RO1NB 07502-01	NEUA	10,143
DUBOWSKI, KURT M	BREATH ANALYSIS METHODS FOR THE CLINICAL LABORATORY	RO1GM 16211-01	SSS	22,232
ERDOS, ERVIN G	HYPOTENSIVEPEPTIDES WHICH STIMULATE SMOOTH MUSCLES	RO1HE 08764-04S2	PHRA	320
ERDOS, ERVIN G	HYPOTENSIVE PEPTIDES WHICH STIMULATE SMOOTH MUSCLES	RO1HE 08764-05	PHRA	64,112

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INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRG	DOLLARS
OKLAHOMA—(CON.)				
GREENFIELD, LAZAR J	PERFUSION EFFECTS ON ALVEOLAR CELLS AND SURFACTANT	RO1HE 11575-01	SGYB	25,210
HAMMARSTEN, JAMES F	HOST FACTORS IN CHRONIC BRONCHITIS AND EMPHYSEMA	RO1AI 07618-03	SSS	56,993
HINSHAW, LERNER B	MECHANISM OF ENDOTOXIN SHOCK NEUROHUMORAL FACTORS	RO1HE 09381-03S1	SGYA	2,179
HODGINS, DANIEL S	MECHANISM OF YEAST PHENYLALANINE METABOLISM	RO1AM 12650-01	PC	18,987
HYDE, RICHARD M	ANTIGENIC COMPETITION AND IMMUNE TOLERANCE	RO1AI 08221-02	IMB	9,329
JACOBSON, EUGENE D	RELATIONSHIP BETWEEN GASTRIC SECRETION AND BLOOD FLOW	RO1AM 11073-02	PHY	31,114
KEYL, M JACK	RENAL LYMPH CONSTITUENTS IN RENAL FUNCTION	RO1HE 09879-03	CVB	15,981
KEYL, M JACK	COMPARATIVE STUDIES OF RENAL LYMPH AND LYMPHATICS	RO1HE 10808-02	CVB	19,833
KIMMELSTIEL, PAUL	STRUCTURAL AND FUNCTIONAL STUDIES ON RENAL DISEASES	RO1AM 11332-02	PTHA	48,336
LHOTKA, JOHN F, JR	TOXICOLOGICAL HISTOCHEMISTRY	RO1GM 15969-01	TOX	11,983
MASSION, WALTER H	PULMONARY VASCULAR REFLEXES IN A LUNG AUTOGRAFT	RO1HE 08329-05	SGYA	12,837
MERRILL, JAMES A	ENDOMETRIAL INDUCTION OF ENDOMETRIOSIS	RO1CA 10769-06	IMB	22,485
MERRILL, JAMES A	PRIMATE RESOURCE FOR RESEARCH IN REPRODUCTION	RO1HD 00130-05	PR	8,711
MODRE, JOANNE I	TACHYPHYLAXIS TO NON-CATECHOL ADRENERGIC AMINES	RO1HE 07408-06	PHRA	21,161
NAKANO, JIRO	VASOACTIVE PEPTIDES ON THE CARDIOVASCULAR SYSTEM	RO1HE 08057-06	PHRA	33,395
NAKANO, JIRO	EFFECTS OF PROSTAGLANDINS ON THE HEART AND CIRCULATION	RO1HE 11848-01	PHRA	29,389
O DDNOGHUE, DON H	REPARATIVE PROCESS OF INJURED KNEE LIGAMENTS	RO1AM 02789-07	SGYA	4,473
PARRY, WILLIAM L	MULTI-DISCIPLINARY STUDY OF RENOVASCULAR HYPERTENSION	RO1HE 08737-05	SRC	38,434
RILEY, HARRIS D JR	GENERAL CLINICAL RESEARCH CENTER - CHILDREN	MO1FR 00062-06	CLR	239,560
RILEY, HARRIS D, JR	SOUTHWEST CANCER CHEMOTHERAPY STUDY	R10CA 04402-09S1	SRC	7,410
RUHM, HOWARD B	EVOKED POTENTIAL AUDIOLOGY	RO1NB 03290-06	CMS	25,712
SCHNEIDER, ROBERT A	SMELL AS A SENSORY FUNCTION	RO1NB 00286-16	CMS	24,640
SCHOITSTAEDT, WILLIAM W	ESTABLISHMENT OF A MEDICAL RESEARCH COMPUTER CENTER	PO7FR 00005-07	COM	115,159
SEELY, J R	DEVELOPMENTAL & GENETICALLY ABNORMAL ADRENAL FUNCTION	RO1HD 02177-03	END	17,171
SHAFFER, A WILLIAM	METABOLISM OF ABNORMAL ERYTHROCYTES	RO1AM 12019-01	HEM	39,487
SNOW, JAMES B, JR	HISTOPATHOLOGY OF THE TEMPORAL BONE	RO1NB 05180-05	CMS	9,693
SOKATCH, JOHN R	BACTERIAL OXIDATION OF BRANCHED CHAIN AMINO ACIDS	RO1AM 09750-03	PC	14,164
STOUT, L CLARKE, JR	EFFECT OF EMOTIONAL STRESS ON ATHEROSCLEROSIS	RO1HE 11044-02	CVA	15,199
THOMPSON, JOHN B	STUDIES OF COMPONENT LIPIDS IN FECAL FAT	RO1AM 09347-03S2	MET	4,172
WHITCOMB, WALTER H	THE ROLE OF THE STOMACH IN IRON ABSORPTION	RO1AM 10619-03	GMA	20,386
WHITCOMB, WALTER H	ERYTHROPOIETIC INHIBITORY FACTOR	RO1HE 09864-03	HEM	21,551
WHITE, JOSEPH M	GENERAL RESEARCH SUPPORT GRANT	SO1FR 05411-07	NSS	226,216
WOLF, STEWART G	NEUROCARDIOLOGY RESEARCH PROGRAM	PO1HE 06286-08A2	HEPA	68,489
INSTITUTION TOTAL 44	1,486,718			
SHAWNEE				
OKLAHOMA BAPTIST UNIVERSITY				
MILLS, JOHN N	MECHANISM OF ACTION OF HUMAN PEP SIN AND GASTRIC SIN	RO1AM 12617-01	PC	11,374
INSTITUTION TOTAL 1	11,374			
STILLWATER				
OKLAHOMA STATE UNIVERSITY OF AGRICULTURE AND APPLIED SCIENCE				
BEAMES, CALVIN G, JR	LIPID METABOLISM OF ASCARIS LUMBRICOIDES SUUM	RO1AI 06047-05	TMP	15,858
BERLIN, K D	PHOSPHORUS AZIDES - FORMATION AND CLEAVAGE OF P-N BONDS	RO1CA 07202-05	MCHA	18,170
BERLIN, K D	STEREOCHEMISTRY OF PHOSPHORUS ESTERS-ARBUZOV REACTION	RO1GM 10367-06	MCHB	14,941
BUCKNER, RALPH G	CANINE HEMOPHILIA RESOURCE COLONY	PO6FR 00412-01	AR	17,545
CARDEILHAC, PAUL T	2-THIOURACIL IN NUCLEIC ACID METABOLISM	RO1AM 09531-03	BIO	18,922
CURD, MILTON R	INTRAOCULAR MUSCLE AND RETINAL DEVELOPMENT	RO1NB 07842-01	VIS	13,699
DURHAM, NORMAN N	FACTORS INFLUENCING INDUCED ENZYME SYNTHESIS	RO1AM 09396-06	BIO	6,960
EBNER, KURT E	MECHANISM AND CONTROL OF LACTOSE SYNTHESIZING ENZYMES	RO1AM 10764-02	BIO	22,399
EDMISON, MARVIN T	BIOMEDICAL SCIENCES SUPPORT	SO5FR 07077-03	NSS	46,204
EWING, LARRY L	EFFECT OF AGING AND STRESS ON TESTICULAR METABOLISM	RO1HD 00636-05	REB	29,424
GAUDY, ELIZABETH T	METABOLISM OF ALLANTOIN	RO1AI 05401-06	MBC	22,639
GHOLSON, ROBERT K	ALKANE OXIDATION AND REGULATION OF NAD BIOSYNTHESIS	RO1GM 10666-06	BIO	29,280
GLASS, BRYAN P	LENS WEIGHT AS AN AGE DETERMINER IN FREETAILED BATS	RO1HD 01833-06	BIO	13,710
GLENN, BERTIS L	COMPARATIVE BIOLOGY OF FELINE AND BOVINE PORPHYRIA	RO1AM 10858-02	HEM	38,417
GOETSCH, DENNIS D	BLOOD-BRAIN BARRIER STUDIES	RO1NB 05243-04	MET	25,228
GORIN, GEORGE	PHYSICAL CHEMISTRY OF ENZYME ACTION	RO1GM 13900-02	BIO	21,507
GRULA, EDWARD A	CELL WALL AND DIVISION STUDIES	RO1AI 05273-05	MBY	13,327
JONES, E WYNN	THE INTESTINAL BARRIER IN NEWBORN UNGULATES	RO1AI 06461-03	BM	42,952
JONES, E WYNN	ONTOGENY OF RBC SUSCEPTIBILITY TO INFECTIOUS ANEMIAS	RO1AI 07916-02	TMP	31,901
JONES, E WYNN	PULMONARY HYPERTENSION IN THE NEWBORN	RO1HE 09880-02	SGYA	16,176
KOEPPE, ROGER E	METABOLISM OF PYRUVATE, GLUTARATE AND SOME AMINO ACIDS	RO1GM 06765-10	PC	24,000
LEACH, FRANKLIN R	STUDIES ON THE FUNCTION OF RNA	RO1CA 08905-02	BIO	22,072
MORRISSETTE, MAURICE C	PERFUSED OVARY RESPONSE TO LUTEAL TROPHINS AND LYSINS	RO1HD 01088-04	END	15,960
NELSON, ELDON C	THE METABOLISM OF RETINOL AND RETINOIC ACID	RO1AM 09191-04	NTN	22,027
NEWCOMER, WILBUR S	HYPICALCEMIC HORMONE AND CALCIUM METABOLISM	RO1AM 10951-02	GMB	5,543
POHL, HERBERT A	ELECTRICAL STUDIES OF ORGANISMS AND THEIR PARTS	RO1GM 14327-02	PHY	27,135
REINHARD, KARL R	GENERAL RESEARCH SUPPORT GRANT	SO1FR 05567-04	NSS	67,291
SMITH, JOSEPH E	COMPARATIVE ERYTHROCYTE METABOLISM	RO1HE 10934-02S1	HEM	1,207
STABENFELD, GEORGE H	PLACENTA RELEASE AT TERM AS AFFECTED BY PROGESTERONE	RO1HD 02053-03	HED	16,294
VENABLE, JOHN H	MUSCLE GROWTH A FINE STRUCTURAL AUTORDIOGRAPHIC STUDY	RO1NB 05350-04	MBY	14,730
WALLER, GEORGE R	METABOLISM OF PYRIDINE COMPOUNDS BY PLANTS	RO1GM 08624-06	PC	42,000

TABLE 2—RESEARCH GRANTS, BY AREA, INSTITUTION, AND PRINCIPAL INVESTIGATOR

INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRG	DOLLARS
OKLAHOMA—(CON.)				
INSTITUTION TOTAL	31	717,518		
STATE TOTAL	111	3,791,348		
OREGON				
ASHLAND				
SOUTHERN OREGON COLLEGE				
SKREPETOS, CHRIS N	EPIDIDYMAL CHOLINESTERASES OF THE RAT	RO1HD 03403-01	REB	13,593
INSTITUTION TOTAL	1	13,593		
CORVALLIS				
OREGON STATE UNIVERSITY				
ADAMS, FRANK W	ENVIRONMENTAL FLUORIDE INFLUENCE ON CALCINOSIS	RO1HD 03238-01	NTN	12,687
ALVARADO, RONALD H	OSMOTIC AND IONIC REGULATION IN VRODELES	RO1AM 10508-04	PHY	10,819
BAICH, ANNETTE	BIOSYNTHESIS OF ESSENTIAL METABOLITES	RO1CA 02295-15	BIO	16,436
BAISTED, DEREK J	METABOLISM OF STEROIDS AND TERPENES	RO1AM 09265-04	MCHA	8,395
BEAUDREAU, GEORGE S	METABOLIC CHANGES INDUCED BY TUMOR VIRUS	RO1CA 06999-05	VR	37,077
BISHOP, NORMAN I	METABOLISM OF PHOTOSYNTHETIC MUTANTS OF ALGAE	RO1GM 11745-05	MBC	25,040
CHURCH, D C	EFFECT OF PESTICIDES ON RUMEN MICROORGANISMS	RO1ES 00239-02	TOX	15,948
DYER, DONALD C	A PHARMACOLOGICALLY ACTIVE PHOSPHOLIPID FROM KIDNEY	RO1AM 12480-01	PHRA	16,501
EVANS, HAROLD J	ROLE OF UNIVALENT CATION SALTS IN NUTRITION	RO1AM 08123-05	PC	22,758
FANG, SHENG C	METABOLISM OF HERBICIDES AND TRANSFORMATION PRODUCTS	RO1ES 00141-07	TOX	35,137
FREED, VIRGIL H	TOXICOLOGY OF PESTICIDES IN THE ENVIRONMENT	PO1ES 00040-04	SSS	371,743
FREED, VIRGIL H	CENTER FOR ENVIRONMENTAL MANAGEMENT	PI0ES 00210-02	SSS	143,572
GAMBLE, WILBERT	METABOLISM AND ENZYMES OF VASCULAR TISSUE	RO1HE 08061-06	CVB	19,357
HARRIS, PATRICIA J	STRUCTURAL ANALYSIS OF CELL DIVISION	RO1GM 12963-02S1	CBY	105
HARRIS, PATRICIA J	STRUCTURAL ANALYSIS OF CELL DIVISION	RO1GM 12963-03	CBY	9,968
ISENBERG, IRVIN	DNA-HYDROCARBON AND DNA-AROMATIC AMINE BINDING	RO1CA 10679-01	BBCA	18,540
ISENBERG, IRVIN	HISTONE-NUCLEIC ACID INTERACTIONS	RO1CA 10872-01	BBCA	39,386
KING, TSOO E	RECONSTITUTION OF MITOCHONDRIAL RESPIRATORY CHAIN	RO1GM 08511-06	BIO	48,380
KING, TSOO E	MITOCHONDRIAL RESPIRATORY SYSTEMS IN HEART	RO1HE 04852-09	BIO	32,807
LARSON, ROBERT E	A STUDY OF THE TOXICITY OF NITROSOUREA DERIVATIVES	RO1CA 08794-03	PHRB	17,601
LEE, DONALD J	BIOLOGICAL AND TOXIC EFFECTS OF CYCLOPROPENOIDS	RO1ES 00263-03	TOX	25,723
LOOMIS, WALTER D	BIOSYNTHESIS AND METABOLISM OF TERPENES	RO1GM 08818-07	PC	32,198
MAC DONALD, DONALD L	PREPARATION OF GLYCOSYL PHOSPHATES	RO1GM 09756-05S1	MCHA	1,307
MARVELL, ELLIOT N	VALENCE ISOMERIZATION OF DIHYDROPYRIDINES	RO1CA 10385-04	MCHA	15,524
MILLEMANN, RAYMOND E	EPIDEMIOLOGY OF SALMON POISONING DISEASE	RO1AI 06599-04	TMP	32,047
MORITA, RICHARD Y	HYDROSTATIC PRESSURE EFFECTS ON METABOLIC ACTIVITIES	RO1AM 06752-06S1	BIO	4,572
NEUBURGH, ROBERT W	OXIDATIVE AND SYNTHETIC ENZYME SYSTEMS	RO1AI 01098-12	TMP	22,198
NEUBURGH, ROBERT W	COMPARATIVE ENZYMIC PATTERNS DURING DEVELOPMENT	RO1HD 01305-12	BIO	25,479
PARKS, LEO W	ANALYSIS OF THE STEROL COMPONENTS OF YEAST	RO1AM 05190-08	PC	18,343
PRATT, IVAN	MARINE ANIMAL USE IN THE STUDY OF HEALTH PROBLEMS	RO1GM 13241-02S1	SSS	602
REED, DONALD J	BIOCHEMISTRY OF PROCARBAZINE AND RELATED HYDRAZINES	RO1CA 08348-04	PHRB	22,523
RUDINSKY, JULIUS A	CHEMICAL BASIS FOR ATTRACTION OF INSECTS	RO1GM 12991-02	TMP	25,607
SINNHUBER, RUSSELL O	AUTOXIDIZED LIPID PRODUCTS AND HEPATOMA IN TROUT	RO1CA 06285-06	PTHB	60,546
SINNHUBER, RUSSELL O	MYCOTOXIN TOXICITY AND CARCINOGENESIS IN TROUT	RO1ES 00256-02	PTHB	28,108
SINNHUBER, RUSSELL O	CHEMICAL AND BIOLOGICAL PROPERTIES OF MALONALDEHYDE	RO1GM 07006-09	TOX	19,948
SMALL, LAWRENCE F	ENERGY TRANSFER IN LOWER MARINE TROPHIC LEVELS	RO1ES 00026-05	SSS	24,811
STORVICK, CLARA A	NUTRITIONAL STUDIES ON VITAMIN B6	RO1AM 03619-09	NTN	18,052
STOUT, FLOYD M	ABERRANT IRON METABOLISM AND ASSOCIATED FACTORS	RO1AM 08210-05	NTN	26,159
TERRIERE, LEON C	DETOXICATION MECHANISMS IN INSECTS	RO1AI 02217-10	TOX	31,677
VAN HOLDE, KENSAL E	OPTICAL STUDIES OF MACROMOLECULES	RO1GM 15686-01	BBCA	25,941
VAN HOLDE, KENSAL E	RESPIRATORY PROTEINS: STRUCTURE AND FUNCTION	RO1HE 12326-01	BBCA	76,759
WANG, CHIH H	COMPARATIVE CARBOHYDRATE METABOLISM OF MICROORGANISMS	RO1AI 01144-12	PC	16,159
WESWIG, PAUL H	CARDIAC MUSCLE CALCIFICATION	RO1HE 09228-04	PTHA	16,060
WHANGER, PHILIP D	METABOLIC RELATIONSHIPS OF SELENIUM IN MYOPATHIES	RO1NB 07413-01	NTN	26,499
YOUNG, ROY A	BIOMEDICAL SCIENCES SUPPORT	SO5FR 07079-03	NSS	75,629
INSTITUTION TOTAL	45	1,574,728		
EUGENE				
OREGON UNIVERSITY OF				
BERNHARD, SIDNEY A	KINETIC ANALYSIS OF ENZYME CATALYSIS	RO1GM 10451-05	BBCA	31,804
BOECKELHEIDE, VIRGIL C	SYNTHESES RELATED TO CARDIOACTIVE NATURAL PRODUCTS	RO1HE 09813-03	MCHB	36,840
COHEN, MELVIN J	PERIPHERAL AND CENTRAL STUDIES OF NEURAL ORGANIZATION	RO1NB 01624-11	PHY	27,854
DOLBY, LLOYD J	THE SYNTHESIS OF ECHITAMINE AND RELATED ALKALOIDS	RO1HE 09521-04	MCHA	34,396
GRANT, PHILIP S	DEVELOPMENT OF PROGRAMS IN MACROMOLECULAR CHEMISTRY, DEV	SO4FR 06027-02	NSS	360,000
GRIFFITH, O HAYES	NITROXIDE PROBES AND BIOMOLECULAR STRUCTURE	RO1CA 10337-02	BBCB	30,649
HERBERT, EDWARD	ENZYME MECHANISM OF ADDITION OF PCPCPA GROUP TO S-RNA	RO1CA 07373-06	PC	40,408
HOYLE, GRAHAM	EXCITATION CONTRACTION COUPLING IN MUSCLE	RO1NB 03819-06S1	PHY	3,200
KEANA, JOHN F	RACEMIC TETRODOTOXIN DERIVATIVES NEUROLOGICAL PROBES	RO1NB 07586-01	MCHB	18,097
KLEMM, LE ROY H	STEREOCHEMISTRY OF CARCINOGENESIS-SYNTHETIC ASPECTS	RO1CA 05969-06S2	MCHA	16,648
KLEMM, LEROY H	SYNTHESES BY INTRAMOLECULAR DIELS-ALDER REACTIONS	RO1GM 12730-04	MCHB	20,714
KOENIG, THOMAS W	OXYGEN TRANSFER REACTIONS	RO1GM 12989-02	MCHB	10,242

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INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRG	DOLLARS
OREGON—(CON.)				
LARRABEE, ALLAN R	ENZYMATIC MECHANISMS IN RICININE METABOLISM	RO1AM 11374-02	PC	29,885
LICKEY, MARVIN E	NEURAL MECHANISMS OF LEARNING AND BEHAVIOR	RO1NB 07458-02	NP	17,963
MENNINGER, JOHN R	CONTROL AND MECHANISM OF PROTEIN CHAIN TERMINATION	RO1GM 15123-02	PC	24,664
MUNZ, FREDERICK W	GENETICS OF VISUAL PIGMENTS	RO1NB 06358-03	VIS	32,393
NICOL, JOSEPH A	PHOTOBIOLOGY OF MARINE ANIMALS	RO1NB 08128-01	SSS	17,994
NOVICK, AARON	MOLECULAR BASIS OF CONTROL MECHANISMS	PO1GM 15423-01	GMP	239,327
PETICOLAS, WARNER L	INELASTIC LIGHT SCATTERING IN BIOPOLYMERS	RO1GM 15547-01	BBCB	48,106
REITHEL, FRANCIS J	STUDIES ON UREASE STRUCTURE	RO1AM 11678-02	BBCA	30,101
SCHEER, BRADLEY T	HORMONAL CONTROL OF AMPHIBIAN SALT BALANCE	RO1AM 03539-09	END	41,654
SCHELLMAN, JOHN A	INTERACTIONS OF NUCLEOTIDES AND PROTEINS	RO1CA 04216-11	BBCA	47,880
TYLER, LEONA E	BIOMEDICAL SCIENCES SUPPORT	S05FR 07080-03	NSS	79,847
VON HIPPEL, PETER H	STRUCTURE AND RELATIONS OF PROTEINS AND NUCLEIC ACIDS	RO1AM 12215-01	BIO	19,862
VON HIPPEL, PETER H	STRUCTURE AND RELATIONS OF PROTEINS AND NUCLEIC ACIDS	RO1GM 15792-02	BBCA	121,070
WIMBER, DONALD E	CELL POPULATION KINETICS AND CHROMOSOME DUPLICATION	RO1GM 11702-05	GEN	20,379
WOLFE, RAYMOND G, JR	ENZYME CATALYTIC MECHANISM STUDIES	RO1HE 03226-11	PC	41,018
INSTITUTION TOTAL	27	1,442,995		
FOREST GROVE				
PACIFIC UNIVERSITY				
BALDWIN, WILLIAM R	THE EFFECT OF FULL-TIME CONTACT LENS WEAR	RO1NB 06035-03	VIS	7,944
LEVINE, LEONARD	INTERACTION OF CHEMICAL AND ELECTRICAL EXCITABILITY	RO1NB 07138-02	PHY	19,355
INSTITUTION TOTAL	2	27,299		
LAGRANDE				
EASTERN OREGON COLLEGE				
ANDERSON, RUTH S	TRANSFERRIN VARIANTS AS SELECTIVE AGENTS	RO1HD 02954-01	HEM	11,919
INSTITUTION TOTAL	1	11,919		
MCMINNVILLE				
LINFIELD COLLEGE				
BOLING, JOHN L	MUSCULAR ACTIVITY OF THE REPRODUCTIVE TRACT IN RATS	RO1HD 03013-05	HED	16,283
INSTITUTION TOTAL	1	16,283		
PORTLAND				
GOOD SAMARITAN HOSPITAL				
BELL, CURTIS C	PHYSIOLOGICAL RELATIONS BETWEEN CEREBELLAR ELEMENTS	RO1NB 06728-02	NEUB	11,322
BOURASSA, CHARLES M	DETECTION OF SUBCORTICAL STIMULATION	RO1NB 07493-01	NEUA	19,204
DOW, ROBERT S	STUDIES IN CEREBELLAR PHYSIOLOGY	RO1NB 02289-08S1	NEUB	3,577
DOW, ROBERT S	STUDIES IN CEREBELLAR PHYSIOLOGY	RO1NB 02289-09	NEUB	89,672
INSTITUTION TOTAL	4	123,775		
MEDICAL RESEARCH FOUNDATION OF OREGON				
BAIRD, D W	OPERATION OF THE OREGON REGIONAL PRIMATE RESEARCH CENTE	P06FR 00163-08S1	PME	93,184
BAIRD, D W	OPERATION OF THE OREGON REGIONAL PRIMATE RESEARCH CENTER	P06FR 00163-09	PME	2,002,657
BEATTY, CLARISSA H	BIOCHEMISTRY OF FETAL, NEONATAL, AND ADULT SKELETAL MUSC	RO1HD 02836-01	MET	10,314
BEATTY, CLARISSA H	METABOLISM OF UTERINE TISSUES FROM THE RHESUS MONKEY	RO1HD 02837-01	MET	22,914
BEHRMAN, RICHARD E	FETAL-MATERNAL PROTEIN BOUND SOLUTE GRADIENTS	RO1HD 01901-03	HED	8,150
BEHRMAN, RICHARD E	FETAL OXYGEN CONSUMPTION PLACENTAL TRANSFER STUDIES	RO1HD 02757-02	HED	9,520
BRENNER, ROBERT M	HORMONAL CONTROL OF OVIDUCT GROWTH IN RHESUS MONKEY	RO1HD 02753-02	REB	17,719
FAHRENBACH, WOLF H	FUNCTIONAL MORPHOLOGY OF THE COMPOUND EYE	RO1NB 07717-01	VIS	8,425
HU, FUNAN	TISSUE CULTURE STUDIES OF HUMAN MELANOCYTES	RO1CA 08499-04	CBY	20,471
LA SALLE, MARJORIE	BLOOD GROUPING STUDIES IN PRIMATES	RO1AM 08764-03S1	PR	1,307
LA SALLE, MARJORIE	BLOOD GROUPING STUDIES IN PRIMATES	RO1AM 08764-04	HEM	13,982
MALINOW, MANUEL R	ESTROGENS, PROGESTAGENS AND ATHEROSCLEROSIS	RO1HE 10967-02	CVB	17,310
MALLEY, ARTHUR	BIOCHEMICAL MECHANISM OF ALLERGY	RO1AI 06274-04	ALY	18,482
MC NULTY, WILBUR P, JR	RNA SYNTHESIS IN SV-40 INFECTED CELLS	RO1CA 07983-04	VR	20,648
MONTAGNA, WILLIAM	THE BIOLOGY OF SKIN OF MAN AND OTHER PRIMATES	RO1AM 08445-04	AMP	115,888
MONTAGNA, WILLIAM	ANNUAL SYMPOSIA ON BIOLOGY OF THE SKIN	R13AM 09431-04	DER	10,000
PORTMAN, OSCAR W	EXPERIMENTAL VASCULAR SCLEROSIS	RO1HE 09744-04	NTN	52,801
INSTITUTION TOTAL	17	2,443,772		
OREGON UNIVERSITY OF DENTAL SCHOOL				
BENNETT, JAMES S	HISTOCHEMICAL VARIATION OF ORAL KERATOTIC LESIONS	RO1DE 01835-06	DEN	10,671
CLAYCOMB, CECIL K	ORAL COLLAGEN METABOLISM	RO1DE 01908-05S1	DEN	2,959
CLAYCOMB, CECIL K	ORAL COLLAGEN METABOLISM	RO1DE 01908-06	DEN	38,273
HALL, WALTER B	MAST CELLS IN HUMAN GINGIVA	RO1DE 02306-03	DEN	13,144
MAHLER, DAVID B	CLINICAL BEHAVIOR OF RESTORATIVE MATERIALS	RO1DE 02320-03	DEN	28,046
PARKER, RICHARD B	INTERACTIONS OF THE ORAL MICROBIOTA	RO1DE 01784-06	BM	19,336
RICHTER, WILLIAM A	RESEARCH ON PROGRAMED DENTAL INSTRUCTION	RO1DH 00036-04	DEN	35,767
SAVARA, BHIM S	SIGNIFICANCE OF VARIATION DURING CHILD GROWTH	RO1HD 00157-07S2	DEN	4,510
SAVARA, BHIM S	SIGNIFICANCE OF VARIATION DURING CHILD GROWTH	RO1HD 00157-08	DEN	62,170
SNYDER, MARSHALL L	THE FILAMENTOUS BACTERIA OF ORAL SURFACES	RO1DE 02234-04	BM	15,342
SNYDER, MARSHALL L	GENERAL RESEARCH SUPPORT GRANT	S01FR 05336-07	NSS	49,800
TRACY, WILLIAM E	DENTO-FACIAL GROWTH IN ENDOCRINE AND METABOLIC DISORDERS	RO1HD 02210-02S1	DEN	2,775

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INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRG	DOLLARS
OREGON—(CON.)				
TRACY, WILLIAM E	DENTO-FACIAL GROWTH IN ENDOCRINE & METABOLIC DISORDERS	RO1HD 02210-03	OEN	26,866
INSTITUTION TOTAL 13	310,659			
OREGON UNIVERSITY OF MEDICAL SCHOOL				
BACHMAN, DANIEL M	SALICYLATE MECHANISMS IN RHEUMATOID ARTHRITIS	RO1AM 11205-02	GMA	3,417
BAIRD, D W	GENERAL RESEARCH SUPPORT GRANT	S01FR 05412-07	NSS	330,555
BAIRD, DAVID W	CARDIOVASCULAR PROGRAM PROJECT	P01HE 06336-07S1	HEP	22,950
BAIRO, DAVID W E	GENERAL CLINICAL RESEARCH CENTER	M01FR 00334-02	CLR	195,724
BENTLEY, J PETER	THE METABOLISM OF CONNECTIVE TISSUE COMPONENTS	RO1AM 09530-03	PC	27,573
BENTLEY, J PETER	CONNECTIVE TISSUE STUDIES IN UROGENITAL CANCERS	RO1CA 10016-02	GMA	22,933
BENTLEY, J PETER	BLOOD VESSEL CONNECTIVE TISSUE STUDIES	RO1HE 10647-02	PC	13,682
BROOKHART, JOHN M	NEURAL MECHANISMS OF POSTURAL CONTROL	RO1NB 04744-05	NEUB	77,056
BUIST, NEIL R	INVESTIGATION OF THE PEPTIDES IN HUMAN SERUM AND URINE	RO1HD 02633-02	MET	22,133
BURNS, ROBERT P	STUDY OF RECURRENT AND POTENTIAL OCULAR INFECTION	RO1AI 02763-10	VIS	28,254
BURNS, ROBERT P	CARBOHYDRATE METABOLISM OF CORNEAL EPITHELIUM	RO1NB 07227-02	VIS	12,424
COLAS, ANTONIO E	BIOCHEMICAL HYDROXYLATION OF STEROID HORMONES	RO1GM 14369-02	END	38,623
DOBSON, RICHARD L	ECCRINE SWEAT GLAND FUNCTION	RO1AM 05635-06	GMA	68,876
DOBSON, RICHARD L	PRECANCER IN RAT SKIN	RO1CA 06111-07	PTHB	18,737
DOTTER, CHARLES T	APPLIED HEMODYNAMICS IN CARDIOVASCULAR RADIOLOGY	RO1HE 03275-11	CVA	35,799
ENGEL, RUDOLF C H	EEG STUDIES IN NEWBORN AND YOUNG INFANTS	RO1NB 03166-08	NEUA	32,100
FABER, JAN J	OXYGEN TRANSFER THROUGH THE PLACENTA	RO1HD 02313-03	HED	30,412
FELLMAN, J H	THE CHEMISTRY AND BIOCHEMISTRY OF THE NEUROHUMORALS	RO1NB 01572-11	PC	52,744
FELLMAN, JACK H	CHEMISTRY AND BIOCHEMISTRY OF THE NEUROHUMORALS	RO1NB 01572-10S1	PC	1,236
FLETCHER, WILLIAM S	STUDIES FOR BREEDING LARGE DOGS FOR MEDICAL RESEARCH	RO1FR 00389-01S1	AR	116,044
FRISCH, ARTHUR W	INHIBITION OF HEMAGGLUTININS BY IMMUNOSUPPRESSIVE DRUGS	RO1AI 02661-09	ALY	10,299
GABOUREL, JOHN D	STEROID INHIBITION OF LYMPHOMA CELLS IN VITRO	RO1CA 07753-05	PHRB	36,752
GOLDMAN, ROBERT D	PARTICIPATION IN WCCG TRIALS	RO1CA 01086-02	SRC	20,178
GOWING, DAVID	ELECTRONIC METHOD OF DETECTING BLOOD VOLUME CHANGES	RO1HE 09816-02	SGYB	7,012
GREER, MONTE A	NEUROENDOCRINE AND THYROID PHYSIOLOGY	RO1AM 01447-13	END	76,698
HINES, MARVIN C	CHEMISTRY OF THE SOLUBLE LENS PROTEINS	RO1NB 06764-01S1	VIS	16,050
HINES, MARVIN C	CHEMISTRY OF THE SOLUBLE LENS PROTEINS	RO1NB 06764-02	VIS	28,677
HODGES, CLARENCE V	CHEMO- AND RADIOTHERAPY IN BLADDER CARCINOMA	RO1CA 07762-05	SRC	30,568
HOLMAN, CHARLES N	CARDIOVASCULAR PROGRAM PROJECT	P01HE 06336-08	HEP	250,236
JACOB, STANLEY W	STUDIES IN CRYOBIOLOGY	RO1AM 09136-09	SGYB	41,484
JOYS, TERENCE M	BACTERIAL FLAGELLA STRUCTURE, SPECIFICITY AND CONTROL	RO1AI 08253-01	BM	40,161
KASSEBAUM, DONALD G	CARDIAC ELECTROPHYSIOLOGY AND ELECTRON MICROSCOPY	RO1HE 08008-04S1	PHY	1,196
KASSEBAUM, DONALD G	CARDIAC ELECTROPHYSIOLOGY AND ELECTRON MICROSCOPY	RO1HE 08008-05	PHY	14,844
KENDALL, JOHN W	NEURAL CONTROL OF ACTH RELEASE IN PRIMATES	RO1AM 08547-03	END	23,350
KOLER, ROBERT D	MALIGNANT AND GENETIC ALTERATIONS IN HUMAN CELLS	P01CA 07941-04	SSS	251,816
KRIPPAEHN, WILLIAM W	EFFECT OF FUNCTION ON GRAFTS AND IMPLANTS OF COLLAGEN	RO1AM 06282-07	SGYB	32,321
LEES, MARTIN H	CARDIORESPIRATORY FUNCTION OF HEART-DISEASED INFANTS	RO1HE 10132-03	CVA	19,351
LILLYWHITE, HEROLD S	DEVELOPMENT OF NORMAL HUMAN COMMUNICATION SKILLS	RO1HD 01621-03	CMS	63,265
LIS, ADAM W	5-RIBOSYLURACIL AS A COMPONENT OF RNA	RO1AM 06996-06	PC	61,107
MASON, HOWARD S	MECHANISMS OF OXYGEN METABOLISM	RO1AM 07180-06	PC	76,247
MC CAWLEY, ELTON L	THERAPY OF CARDIAC ARRHYTHMIAS	RO1HE 02233-13	CVB	46,600
METCALFE, JAMES	CARDIOVASCULAR PHYSIOLOGY IN PREGNANCY	RO1HE 06042-07	HED	18,864
MEYER, ERNEST A	PHYSIOLOGIC CHARACTERISTICS OF GIARDIA SP	RO1AI 08264-01	TMP	18,558
MORGAN, CLARENCE L	APPLICATIONS OF DIAGNOSTIC ULTRASOUND IN PEDIATRIC CARD	RO1HE 12030-01	CVB	24,171
NEILL, WILLIAM A	MYOCARDIAL HYPOXIA & ANAEROBIC METABOLISM	RO1HE 10433-02	CVB	38,957
PEARSON, ANTHONY A	THE ANATOMY OF HUMAN GROWTH AND DEVELOPMENT	RO1HD 00186-13S1	HED	3,000
PORTER, GEORGE A	STEROIDAL REGULATION OF ACTIVE SODIUM TRANSPORT	RO1HE 10042-04	GMB	54,463
RAMPONE, ALFRED J	INTESTINAL ABSORPTION AND TRANSPORT OF DIETARY LIPIDS	RO1AM 01389-12	PHY	12,545
SATO, MAKOTO	SYNAPTIC PHYSIOLOGY OF NEURONAL MEMBRANE	RO1NB 01687-10	NEUB	28,348
SEAMAN, ARTHUR J	THROMBOSIS IN RETINAL VESSELS	RO1HE 08907-04	HEM	46,454
SEAMAN, GEOFFREY V	ELECTROCHEMISTRY OF CELL-PLASMA PARTICLE INTERACTION	RO1CA 10422-01	PTHB	39,483
SIEGEL, BENJAMIN V	IMMUNOLOGICAL STIMULI IN RELATION TO LEUKEMOGENESIS	RO1CA 10089-02	VR	21,565
TUNTURI, ARCHIE R	ANATOMY AND PHYSIOLOGY OF THE AUDITORY CORTEX	RO1NB 00045-17S1	CMS	49,710
VERNON, JACK A	HEARING AND TINNITUS	RO1NB 07304-02	CMS	21,558
WEIMAR, VIRGINIA L	REACTION OF CONNECTIVE TISSUE CELLS CORNEAL TO INJURY	RO1NB 03788-07	VIS	85,726
WELLINGS, S R	EPIDERMAL PAPILLOMAS IN PLEURONECTID FISHES	RO1CA 08158-03S2	PTHB	418
WELLINGS, S R	EPIDERMAL PAPILLOMAS IN PLEURONECTID FISHES	RO1CA 08158-04	SSS	63,709
INSTITUTION TOTAL 57	2,827,013			
PORTLAND STATE COLLEGE				
BERNTZEN, ALLEN K	REQUIREMENTS FOR GROWTH OF PARASITIC WORMS IN VITRO	RO1AI 07218-03	TMP	30,248
FISHER, EARL, JR	ACTION OF PROTEOLYTIC ENZYMES ON CORNEAL TISSUE	RO1NB 07365-02	VIS	61,150
INSTITUTION TOTAL 2	91,398			
PORTLAND UNIVERSITY OF				
TOCHER, RICHARD D	3-HYDROXYTYRAMINE IN MONOSTROMA FUSCUM	RO1HE 11363-02	PC	12,307
INSTITUTION TOTAL 1	12,307			
PORTLAND ZOOLOGICAL SOCIETY				
METCALFE, JAMES	THE ECOLOGY OF ZOO ANIMALS	P06FR 00379-02	SSS	47,900

TABLE 2—RESEARCH GRANTS, BY AREA, INSTITUTION, AND PRINCIPAL INVESTIGATOR

INVESTIGATOR	PROJECT TITLE	GRANT NO	IRG	DOLLARS
OREGON—(CON.)				
INSTITUTION TOTAL	1	47,900		
PROVIDENCE HOSPITAL				
JONES, RUSSELL S	INCIDENCE OF OSTEOPOROSIS, POSTMORTEM	R01AM 08226-05	PTHA	34,211
MAURICE, GORDON L	COOPERATIVE STUDY OF DRUGS AND CORONARY HEART DISEASE	R01HE 10700-03	SRC	45,857
WOOD, DON C	A STUDY OF EYE LENS PROTEINS	R01NB 06230-03	VIS	49,617
WOOD, DON C	MECHANISM OF DMSO TOXICITY	R01NB 06969-01A1	VIS	40,267
INSTITUTION TOTAL	4	169,952		
REED COLLEGE				
KLEINHOLZ, LEWIS H	NEUROSECRETION AND ENDOCRINE PHYSIOLOGY	R01NB 02606-09	PHY	52,110
LESTER, GABRIEL	REGULATION OF TRYPTOPHAN SYNTHESIS AND METABOLISM	R01CA 06073-07	MET	20,859
RUBEN, LAURENS N	XENOPLASTIC STUDIES OF AMPHIBIAN LIMB REGENERATION	R01CA 08268-12	CBY	23,347
INSTITUTION TOTAL	3	96,316		
STATE TOTAL	179	9,209,909		
PENNSYLVANIA				
ABINGTON				
ABINGTON MEMORIAL HOSPITAL				
KITCHELL, J RODERICK	ANTI-ARRHYTHMIC DRUGS IN ACUTE MYOCARDIAL INFARCTION	R01HE 08212-04S1	SRC	7,781
INSTITUTION TOTAL	1	7,781		
ALLENTOWN				
ALLENTOWN HOSPITAL				
SCHAEFFER, FRANCES C	ADJUVANT UTERINE CANCER CHEMOTHERAPY	R01CA 07559-04	SRC	1,750
SCHAEFFER, FRANCES C	ADJUVANT UTERINE CANCER CHEMOTHERAPY	R01CA 07559-05	SRC	1,760
INSTITUTION TOTAL	2	3,510		
BALA-CYNWYD				
OBSTETRICAL SOCIETY OF PHILADELPHIA				
CARRINGTON, ELSIE R	ADJUVANT UTERINE CANCER CHEMOTHERAPY	R01CA 07388-05	SRC	6,391
INSTITUTION TOTAL	1	6,391		
BETHLEHEM				
LEHIGH UNIVERSITY				
BARBER, SAUL B	NEUROPHYSIOLOGICAL MECHANISMS IN BEHAVIOR	R01NB 05953-04	PHY	29,374
BROZEK, JOSEF M	SYMPOSIUM ON HUMAN GROWTH	R13HD 03704-01	NSS	14,852
LANDIS, EUGENE M	CAPILLARY PERMEABILITY POROSITY, DYE CINEMATOGRAPHY	R01HE 11408-01	CVB	25,349
SIMPSON, DALE R	CHEMICAL SUBSTITUTIONS IN TEETH AND BONE MINERALS	R01DE 01959-05	DEN	29,650
INSTITUTION TOTAL	4	99,225		
BRYN MAWR				
BRYN MAWR COLLEGE				
BERRY, L JOE	EFFECT OF ENDOTOXIN ON INDUCTION OF LIVER ENZYMES	R01AI 07851-02	MBC	20,729
HOYT, ROSALIE C	MODELS OF THE AXON MEMBRANE	R01NB 07285-02	PHY	30,349
INSTITUTION TOTAL	2	51,078		
BRYN MAWR HOSPITAL				
WAGNER, JOSEPH A	COOPERATIVE STUDY OF DRUGS AND CORONARY HEART DISEASE	R01HE 10898-02	SRC	22,092
INSTITUTION TOTAL	1	22,092		
DANVILLE				
GEISINGER MEDICAL CENTER				
LAUBACH, CHARLES A, JR	COOPERATIVE STUDY OF DRUGS AND CORONARY HEART DISEASE	R01HE 11372-02	SRC	52,767
INSTITUTION TOTAL	1	52,767		
DARBY				
THOMAS M. FITZGERALD MERCY HOSPITAL				
MC GOWAN, LARRY	ADJUVANT UTERINE CANCER CHEMOTHERAPY	R01CA 07697-05	SRC	1,152
MEYER, EDWARD C	ROLE OF FIBRIN IN THE EVOLUTION OF PULMONARY EDEMA	R01HE 08601-05	PTHA	29,580
INSTITUTION TOTAL	2	30,732		
EASTON				
LAFAYETTE COLLEGE				
FRIED, BERNARD	TRANSPLANTATION OF TREMATODES TO EXPERIMENTAL SITES	R01AI 06835-03	TMP	7,930
INSTITUTION TOTAL	1	7,930		
ERIE				
GANNON COLLEGE				
GAMMON, RICHARD A	CONTINUED STUDIES OF PHAGES FOR THERMOPHILIC BACILLI	R01AI 07167-02S1	VR	600
INSTITUTION TOTAL	1	600		

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INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRG	DOLLARS
PENNSYLVANIA—(CON.)				
GETTYSBURG				
GETTYSBURG COLLEGE				
ROWLAND, ALEX T	SYNTHESIS AND REACTIONS OF STEROID 3-OXETANONES	RO1AM 11190-01S1	MCHA	1,674
ROWLAND, ALEX T	SYNTHESIS AND REACTIONS OF STEROID 3-OXETANONES	RO1AM 11190-02	MCHA	7,519
INSTITUTION TOTAL	2 9,193			
GREENSBURG				
SETON HILL COLLEGE				
INFANGER, ANN M	NUCLEO-CYTOPLASMIC RELATIONS IN NEUROSPORA	RO1GM 11478-05	GEN	3,128
INSTITUTION TOTAL	1 3,128			
HAVERFORD				
HAVERFORD COLLEGE				
DUNATHAN, H C	THE STEREOCHEMISTRY OF ENZYMATIC TRANSAMINATION	RO1AM 09309-04	PC	16,230
FINGER, IRVING	IMMUNOLOGICAL STUDIES OF GENE ACTION IN PARAMECIUM	RO1GM 12017-09	GEN	16,620
KESSLER, DIETRICH	CHROMOSOME ULTRASTRUCTURE AND FUNCTION	RO1GM 12463-03	GEN	13,671
LOEWY, ARIEL G	FORMATION OF INSOLUBLE FIBRIN	RO1HE 04385-09	HEM	20,190
NACHMIAS, VIVIANNE T	FIBRILLAR STRUCTURES AND CONTRACTILITY IN AMEBAE	RO1GM 13377-03	CB	13,892
SANTER, MELVIN	GENETIC CONTROL AND COMPOSITION OF RIBOSOMES	RO1GM 11738-05	BIO	23,609
INSTITUTION TOTAL	6 104,212			
HERSHEY				
PENNSYLVANIA STATE UNIVERSITY				
BAIRD, IRWIN L	ANATOMICAL STUDIES OF THE INTERNAL EAR	RO1NB 07860-01	CMS	23,460
DAVIDSON, EUGENE A	BIOCHEMISTRY OF MUCOPOLYSACCHARIDES	RO1AM 12074-01	BIO	226,657
DAVIS, WARREN W	REGULATION OF STEROIDGENESIS BY THE ADRENAL CORTEX	RO1AM 11781-01	GMB	60,859
LANG, CAROL M	EFFECTS OF CARBOHYDRATES ON ATHEROSCLEROSIS	RO1HE 11741-01	NTN	32,895
MORGAN, HOWARD E	MECHANISM OF CARDIAC HYPERTROPHY	RO1HE 11534-01	CVA	73,867
MORTIMORE, GLENN E	HORMONAL REGULATION OF LIVER METABOLISM	RO1AM 11960-01	MET	81,089
MUNGER, BRYCE L	HISTOPHYSIOLOGY OF SECRETION	RO1AM 11407-02	CBY	38,329
NAEYE, RICHARD L	VASCULAR FACTORS IN HEMODYNAMIC REGULATION	RO1HE 11688-01	CVA	31,081
INSTITUTION TOTAL	8 568,237			
LANCASTER				
FRANKLIN AND MARSHALL COLLEGE				
KING, DAVID B	EFFECT OF GROWTH HORMONE IN HYPOPHYSECTOMIZED CHICKS	RO1AM 10948-02	END	6,814
WIST, EUGENE R	TEMPORAL FACTORS IN SPACE PERCEPTION	RO1NB 05528-04	VIS	24,476
INSTITUTION TOTAL	2 31,290			
LANCASTER CLEFT PALATE CLINIC				
COOPER, HERBERT K	CLINICAL RES PROG FOR ORAL-FACIAL-COMMUNICATIVE DISORDER	P02DE 02172-04	DEP	329,008
INSTITUTION TOTAL	1 329,008			
ST. JOSEPH HOSPITAL				
COURSIN, DAVID B	BIOTIN AND CARBOHYDRATE METABOLISM	RO1AM 08366-05	NTN	44,813
COURSIN, DAVID B	VITAMIN B6 AND CENTRAL NERVOUS SYSTEM FUNCTION	RO1NB 05789-04	EXP	36,382
COURSIN, DAVID B	DISTRIBUTION OF PYRIDOXAL PHOSPHATE IN B6 DEFICIENCY	RO1NB 07361-01	NTN	49,237
EISENBERG, RITA B	AUDITORY BEHAVIOR IN HUMAN NEONATES	RO1HD 00732-05	CMS	78,543
INSTITUTION TOTAL	4 208,975			
LEWISBURG				
BUCKNELL UNIVERSITY				
HEINE, HAROLD W	THE CHEMISTRY OF AZIRIDINES	RO1CA 10015-02	MCHA	18,136
SMITH, MANNING A	FLAVANDIONES AND OXIDATIONS OF FLAVONOLS	RO1AM 11423-02	MCHA	9,490
INSTITUTION TOTAL	2 27,626			
PHILADELPHIA				
ALBERT EINSTEIN MEDICAL CENTER				
AJL, SAMUEL J	ASPECTS OF MICROBIAL PATHOGENICITY AND PHYSIOLOGY	RO1AI 03866-08	PC	100,069
AJL, SAMUEL J	GENERAL RESEARCH SUPPORT GRANT	S01FR 05505-06	NSS	169,872
BAER, SAMUEL	COOPERATIVE STUDY OF DRUGS AND CORONARY HEART DISEASE	RO1HE 10233-03	SRC	79,324
BOROFF, DANIEL A	CHEMISTRY AND BIOLOGICAL ACTIVITY OF BOTULINUM TOXIN	RO1AI 04180-05S1	TOX	2,079
BOROFF, DANIEL A	CHEMISTRY AND BIOLOGICAL ACTIVITY OF BOTULINUM TOXIN	RO1AI 04180-06	TOX	33,510
COPE, CONSTANTIN	SEPARATE RENAL BLOOD FLOW BY RADIOXENON CLEARANCE	RO1HE 10431-02S1	CVA	1,669
EZEKIEL, DAVID H	CONTROL OF RIBONUCLEIC ACID AND AMINO ACID SYNTHESIS	RO1AI 05375-06	BIO	16,836
GECZY, MARIA	MYOCARDIAL ENERGETICS IN COMPLETE HEART BLOCK	RO1HE 10459-02	CVA	8,045
GREBNER, EUGENE E	BIOSYNTHESIS OF GLYCOPROTEINS	RO1AM 11416-01	PC	40,447
HOLEMANS, RUDOLF	ORIGIN, RELEASE AND PROPERTIES OF BLOOD ACTIVATOR	RO1HE 10249-03	HEM	25,382
KAPLAN, ALBERT S	MORPHOLOGY OF CELLS INFECTED WITH PSEUDORABIES VIRUS	RO1AI 03362-09	VR	123,249
KATZ, WARREN A	DEPOSITION OF URATE CRYSTALS IN GOUT	RO1AM 11904-01	GMA	34,244
KOLLMANN, GEORGE J	RADIATION EFFECTS ON NUCLEIC ACIDS AND PROTECTION	RO1CA 11003-01	RAD	20,264
MORSE, DRYDEN P	AN INTRAVENTRICULAR RADIOFREQUENCY CARDIAC PACEMAKER	RO1HE 09687-02S1	SCGYB	8,818
NAKHJAVAN, FRED	CORONARY CIRCULATION TO ISCHEMIC HEARTS	RO1HE 10430-02	CVA	15,110

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INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRC	DOLLARS
PENNSYLVANIA—(CON.)				
PANOS, CHARLES	LIPID COMPONENTS OF CELL MEMBRANES OF MICROORGANISMS	R01AI 04495-07	MBY	25,168
PANOS, CHARLES	L FORMS OF GROUP A, BETA HEMOLYTIC STREPTOCOCCI	R01AI 04543-07	BM	28,988
RICH, MARVIN A	STUDIES ON THE VIRAL ETIOLOGY OF CANCER	R01CA 06711-06	VR	163,664
SHAPIRO, BERNARD	RADIATION ON ERYTHROCYTE SODIUM & POTASSIUM	R01HE 08221-06	RAD	26,420
SHORE, EUGENE	DISJUNCTIVE LEARNING, EGO SYNTHESIS, AND CREATIVITY	R01HD 02463-02	DBR	22,955
STEINBERGER, EMIL	GONADO-PITUITARY AXIS IN THE RAT	R01AM 05449-07	END	42,840
STEINBERGER, EMIL	EFFECT OF GONADOTROPINS ON TESTES CULTURE	R01HD 00399-07	END	50,088
SUHADOLNIK, ROBERT J	CORDYCEPIN, PSICOFURANINE AND THEIR SUGAR MOIETIES	R01GM 08685-08	PC	37,620
TUCCI, ANTHONY F	LYSINE BIOSYNTHESIS AND ANALOGOUS PATHWAYS	R01AM 06954-06	PC	62,155
WEINBAUM, GEORGE	PHOSPHOLIPID METABOLISM AND MEMBRANE SYNTHESIS	R01NB 07268-02	MBY	28,916
ZAFRAN, JACK N	ORAL NEUROMUSCULAR DYSFUNCTION IN C V A DISEASE	R01DE 02038-04S1	NSS	1,835
INSTITUTION TOTAL	26	1,169,567		
AMERICAN ASSOCIATION FOR CANCER RESEARCH -CANCER RESEARCH, INC				
CREECH, HUGH J	PARTIAL SUBSIDY FOR THE JOURNAL CANCER RESEARCH	R01CA 09247-16	NSS	89,500
INSTITUTION TOTAL	1	89,500		
CHILDREN'S HOSPITAL OF PHILADELPHIA				
BACHMAN, LEONARD	DRUG ACTION IN CHILDREN	R01HD 00201-10	PHRA	30,061
BONGIOVANNI, A M	GENERAL RESEARCH SUPPORT GRANT	S01FR 05506-06	NSS	190,014
BONGIOVANNI, ALFRED M	GENERAL CLINICAL RESEARCH CENTER - CHILDREN	M01FR 00240-04	CLR	117,901
BONGIOVANNI, ALFRED M	STERIOD METABOLISM DURING GROWTH AND MATURATION	R01HD 00371-13S2	END	3,172
BONGIOVANNI, ALFRED M	STERIOD METABOLISM WITH GROWTH & MATURATION	R01HD 00371-14	END	53,119
DIERASSI, ISAAC	PLATELET PROCUREMENT FOR INTENSIVE CHEMOTHERAPY	R10CA 10027-03	SRC	118,911
EBERLEIN, WALTER R	NEWBORN AND ADOLESCENT ADRENOCORTICAL FUNCTION	R01HD 00379-10	END	45,104
GOLDMAN, ALLEN S	CONGENITAL ADRENAL HYPERPLASIA	R01AM 10521-03	END	33,990
HAMILTON, RALPH	DERMATOGLYPHICS IN CLEFT LIP/CLEFT PALATE PATIENTS	R01DE 02850-01	EDC	4,997
HARRIS, T N	RHEUMATIC FEVER AND ANTIBODY FORMATION	R01HE 04598-09	ALY	160,053
HENLE, WERNER	STUDIES ON VIRAL ANTIGENS AND HOST-VIRUS INTERACTIONS	R01AI 02405-10	VR	124,208
HENLE, WERNER	INTERFERENCE PHENOMENA IN THE DETECTION OF TUMOR VIRUSE	R01CA 04568-10	VR	134,648
HUMMELER, KLAUS	ELECTRON MICROSCOPY IN THE IMMUNOLOGY OF VIRUSES	R01AI 04911-05S1	VR	5,453
HUMMELER, KLAUS	ELECTRON MICROSCOPY IN VIROLOGY AND IMMUNOLOGY	R01AI 04911-06A1	VR	28,289
KAYE, ROBERT	THE ROLE OF ADRENAL FUNCTION IN NEONATAL HYPOGLYCEMIA	R01HD 00444-06	HED	37,595
RANDALL, PETER	CLEFT PALATE POST-OPERATIVE VELOPHARYNGEAL INCOMPETENCE	R01DH 00037-05	DEN	22,276
RASHKIND, WILLIAM J	EVALUATION OF AN EXTRACORPOREAL OXYGENATOR	R01HE 05845-07S1	SGY8	4,043
SEGAL, STANTON	GENETIC METABOLIC DISORDERS OF INFANCY AND CHILDHOOD	R01AM 10894-02	MET	66,649
TOKUMARU, TADASU	ROLE OF HERPESVIRUS-ANTIBODY COMPLEX IN INFECTION	R01AI 05612-06	VR	45,178
WOLMAN, IRVING J	ACUTE LEUKEMIA COOPERATIVE CHEMOTHERAPY GROUP B	R10CA 04737-09	SRC	78,640
INSTITUTION TOTAL	20	1,304,301		
COLLEGE OF PHYSICIANS OF PHILADELPHIA				
ASHKENAZ, ELEANOR W	PUBLICATION OF INFLUENZA, AN ANNOTATED BIBLIOLGRAPHY	R01AI 07027-03	CSP	8,009
INSTITUTION TOTAL	1	8,009		
DREXEL INSTITUTE OF TECHNOLOGY				
BROWN, R GLENN	COLLAGEN METABOLISM IN SULFATE DEFICIENCY	R01AM 10768-02	GMA	14,928
HAHN, ALLEN W	ENGINEERING STUDIES OF A BIOLOGICAL POWER CELL	R01HE 11631-01	SSS	46,848
LONGO, FREDERICK R	THERMODYNAMICS AND KINETICS OF PORPHYRIN SYNTHESIS	R01GM 15019-01	BBCA	39,557
NES, WILLIAM R	INFLUENCE OF STRUCTURE ON ISOPENTENOID METABOLISM	R01AM 12172-01	PC	22,657
NES, WILLIAM R	INFLUENCE OF STRUCTURE ON ISOPENTENOID METABOLISM	R01AM 12172-02	PC	68,995
SUN, HUN H	SIGNAL PROCESSING OF FETAL ELECTROCARDIOGRAM	R01HE 10150-02	CVA	32,655
INSTITUTION TOTAL	6	225,640		
EPISCOPAL HOSPITAL				
SHENKIN, HENRY A	CORTICOSTEROID RESPONSE IN NEUROSURGICAL PATIENTS	R01NB 04996-05A1	END	9,844
SHENKIN, HENRY A	BODY WATER COMPARTMENTS IN NEUROSURGICAL PATIENTS	R01NB 05079-05	NEUA	11,308
INSTITUTION TOTAL	2	21,152		
HAHNEMANN MEDICAL COLLEGE AND HOSPITAL OF PHILADELPHIA				
BARBERO, GIULIO J	PROGRAM PROJECTS IN CYSTIC FIBROSIS	P02AM 12207-01	AMP	75,618
BONDI, AMEDEO	STUDIES ON ANTIBIOTIC RESISTANT STAPHYLOCOCCUS	R01AI 01079-12	BM	15,600
BRODSKY, ISADORE	MURINE TUMOR VIRUS EFFECTS ON HEMATOPOIESIS	R01CA 08725-02	HEM	42,794
CHERNICK, WARREN S	ADRENERGIC ASPECTS OF SUBMAXILARY GLAND SECRETION	R01DE 02099-05	DEN	21,176
CROWELL, RICHARD L	VIRAL INTERFERENCE IN CARRIER CULTURES	R01AI 03771-08	VR	26,880
DI PALMA, JOSEPH R	GENERAL RESEARCH SUPPORT GRANT	S01FR 05413-07	NSS	253,651
DREIFUS, LEONARD S	HEMODYNAMIC DERANGEMENTS IN MYOCARDIAL INFARCTION	R01HE 11281-01	CVA	43,711
FLEISCHMAJER, RAUL	BIOCHEMISTRY OF EXTRACELLULAR PROTEINS	R01AM 08127-05	PC	34,508
FUSCALDO, KATHRYN E	GENETIC CONTROL OF PROTEIN SYNTHESIS	R01AM 08061-05	GEN	27,054
HOWARD, JOHN M	STUDIES OF SEPTIC SHOCK	R01AI 04064-08	SGYA	35,423
HOWARD, JOHN M	STUDY OF PANCREATITIS AND ITS TREATMENT	R01AM 02723-10	SGYA	70,284
HOWARD, JOHN M	VASCULAR SURGERY AND PERIPHERAL CIRCULATION	R01HE 04182-10	SGYA	56,412
KOPROWSKA, IRENA	STUDY OF NEOPLASTIC PROGRESSION	R01CA 08050-03S1	PTH8	3,481
LEUNISSEN, REINHARD L	REGIONAL METABOLISM OF THE HEART	R01HE 10772-02	CVA	41,604
LEWIS, GEORGE C. JR	ADJUVANT UTERINE CANCER WITH PROVERA	R01CA 07353-05	SRC	56,132
LIKOFF, WILLIAM	CARDIOVASCULAR CLINICAL RESEARCH CENTER	P02HE 06368-07	HEP	162,081

TABLE 2—RESEARCH GRANTS, BY AREA, INSTITUTION, AND PRINCIPAL INVESTIGATOR

INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRG	DOLLARS
PENNSYLVANIA—(CON.)				
MAGUIRE, HENRY C, JR	A NEW METHOD FOR DETECTING CUTANEOUS IRRITANTS	RO1AI 08542-01	IMB	37,997
MILLS, LEWIS C	REACTIVITY OF VASCULAR ADRENERGIC RECEPTORS	RO1HE 04394-08S1	CVB	1,905
ONESTI, GADDO	BLOOD PRESSURE REGULATION IN THE RENOPRIVAL STATE IN MAN	RO1HE 09146-03S1	CVB	8,469
ONESTI, GADDO	BLOOD PRESSURE REGULATION IN THE RENOPRIVAL STATE IN MAN	RO1HE 09146-04	CVB	30,926
PIATNEK-LEUNISSEN, DOROTHY A	ENERGY METABOLISM OF THE HEART IN HYPERTHYROIDISM	RO1HE 08377-05	MET	21,739
SATINSKY, VICTOR P	CARDIO-CARDIAC PACEMAKER	RO1HE 10156-02S1	SSS	7,848
SCHINDK, PERRY A	BIO-MEDICAL RESEARCH COMPUTER CENTER	P07FR 00266-03	COM	124,665
SCOTT, JOHN C	HORMONAL INFLUENCES ON MYOCARDIAL FATTY ACID UPTAKE	RO1HE 04619-09	MET	31,911
SEGAL, BERNARD L	SIGNATURE ANALYSIS OF ULTRASONIC CARDIAC ECHOES	RO1HE 09937-03	CVB	24,092
SHOWERS, MARY J	NEUROANATOMICAL INVESTIGATION OF BRAIN	RO1NB 05436-04	NEUA	18,147
SPITZER, JOHN J	REMOVAL AND MOBILIZATION OF LIPIDS	RO1HE 03130-12	MET	82,146
STELOS, PETER	THE SEPARATION AND PROPERTIES OF IMMUNOGLOBULINS	RO1AI 07137-03	ALY	25,550
SWARTZ, CHARLES D	PATHOPHYSIOLOGY OF ACUTE RENAL FAILURE	RO1HE 11314-02	CVB	27,461
INSTITUTION TOTAL	29	1,409,265		
INSTITUTE FOR CANCER RESEARCH				
BLUMBERG, BARUCH S	PROGRAM IN CANCER AND INHERITED BIOCHEMICAL VARIATION	RO1CA 08069-04	GEN	70,407
CASTOR, LA ROY N	CELL PROPERTIES RELATED TO TUMORIGENESIS IN VITRO	RO1CA 10367-02	CBY	25,888
CREECH, HUGH J	PREPARATION AND TESTING OF CHEMOTHERAPEUTIC AGENTS	RO1CA 02975-12	PHRB	49,348
FREED, JEROME J	GENETIC-CYTOCHEMICAL STUDIES ON HAPLOID CELLS IN CULTUR	RO1CA 05959-07	GEN	36,676
GLUSKER, JENNY P	APPLICATION OF CRYSTALLOGRAPHIC TECHNIQUES	RO1CA 10925-19	BBCA	81,021
HAGEN, GEORGE L	NORMAL AND ABNORMAL GROWTH OF A TOBACCO HYBRID	RO1CA 04890-09	CBY	30,953
HUNGERFORD, DAVID A	CHROMOSOME STRUCTURE AND FUNCTION IN MAN	RO1CA 05903-07	GEN	42,666
KAJI, HIDEOKO	BIOCHEMICAL MECHANISM OF PROTEIN SYNTHESIS	RO1CA 08667-03	MBC	14,606
MARCUS, ABRAHAM	POLYSOME FORMATION AND PEPTIDE SYNTHESIS IN VITRO	RO1GM 15122-01	PC	46,055
MINTZ, BEATRICE	DIFFERENTIATION AND ITS GENETIC CONTROL IN THE EMBRYO	RO1HD 01646-09	CBY	99,804
NEMER, MARTIN J	MOLECULAR EMBRYOLOGY CONTROL OF PROTEIN SYNTHESIS	RO1CA 05936-07	CBY	49,309
PATTERSON, ELIZABETH K	THE NATURE AND FUNCTION OF THE PEPTIDASES	RO1CA 03102-12	BIO	33,136
PREHN, RICHMOND T	MECHANISMS OF CARCINOGENESIS	RO1CA 08856-02	PTHB	136,785
ROSE, IRWIN A	ENZYME MECHANISMS OF C-H BOND ACTIVATION	RO1CA 07818-05	PC	44,232
ROSE, IRWIN A	CONTROL OF CARBOHYDRATE METABOLISM IN RED BLOOD CELLS	RO1CA 07819-05	PC	28,811
ROSS, MORRIS H	EFFECT OF CHANGES IN ENZYME LEVELS ON LIFE SPAN	RO1HD 00086-09S1	PTHA	270
SCHULTZ, JACK	CYTOCHEMICAL STUDIES OF NATURE AND FUNCTION OF GENES	RO1CA 01613-17	GEN	61,140
SOROF, SAM	STUDIES ON THE PATHOGENESIS OF LIVER TUMORS	RO1CA 05945-07	PHRB	38,080
STEKOL, JAKOB A	BIOCHEMISTRY OF HEPATOMA PRODUCTION BY ETHIONINE	RO1CA 01251-19	MET	57,175
TALBOT, T R, JR	BIOLOGICAL AND BIOCHEMICAL PROGRAM IN CANCER RESEARCH	P01CA 06927-06	SSS	922,072
TALBOT, TIMOTHY R, JR	CANCER CLINICAL RESEARCH UNIT AT FOX CHASE	P02CA 06551-05	SSS	369,523
TALBOT, TIMOTHY R, JR	GENERAL RESEARCH SUPPORT GRANT	S01FR 05539-06	NSS	306,331
WEILER, EBERHARDT	CELLULAR EVENTS IN ANTIBODY SYNTHESIS	RO1CA 04946-08	ALY	52,088
INSTITUTION TOTAL	23	2,596,376		
JEFFERSON MEDICAL COLLEGE OF PHILADELPHIA				
ABRUZZO, JOHN L	SYNOVITIS & AMYLOIDOSIS IN RHEUMATOID DISEASE	RO1AM 11689-02	ALY	14,203
ALBERT, ERNEST N	EFFECTS OF PREGNANCY AND STEROIDS ON ARTERIES	RO1HE 11721-01	REB	7,282
ALLEN, ARTHUR	EFFECT OF DIETARY CARBOHYDRATES ON THE SERUM LIPIDS	RO1HE 11300-01	NTN	19,123
BEHRENDT, THOMAS	DETAILED PHOTOGRAPHY OF THE VITALLY STAINED RETINA	RO1NB 05135-05	VIS	27,049
BRENT, ROBERT L	NEW EXPERIMENTAL METHODS OF TERATOGENESIS	RO1HD 00630-06	HED	57,387
BURKA, EDWARD R	BIOCHEMICAL DETERMINANTS OF ERYTHROID DIFFERENTIATION	RO1HE 10473-03	HEM	26,589
CARABASI, RALPH A	STEROID HORMONE THERAPY IN ADVANCED BREAST CARCINOMA	R10CA 04299-10A1	SRC	14,033
D ANGELO, SAVINO A	HYPOTHALAMIC HYPOPHYSIAL THYROID INTERACTION	RO1AM 00432-18	END	32,843
DETTMER, CORNELIA M	PRESSURE EFFECTS UPON MALIGNANT AND METASTATIC GROWTH	RO1CA 10324-02	RAD	9,720
DUANE, THOMAS D	RETINAL CLINICAL RESEARCH UNIT	P15NB 06847-02	NBPP	17,569
DUANE, THOMAS D	PLETHYSMOGRAPHIC OCCLUSION OF THE OPHTHALMIC ARTERY	RO1NB 04233-06	VIS	12,395
ERSLEV, ALLAN J	EXPANSION OF RESEARCH IN A HEMATOLOGIC CENTER	PO1HE 06374-07S1	HEP	4,025
ERSLEV, ALLAN J	EXPANSION OF RESEARCH IN A HEMATOLOGIC CENTER	PO1HE 06374-08	HEPA	42,317
ERSLEV, ALLAN J	HEMOGLOBIN STRUCTURE AND VISCOSITY OF SPHEROCYTES	RO1AM 08074-05	HEM	12,480
ERSLEV, ALLAN J	HUMORAL AND FEEDBACK MECHANISMS OF ERYTHROPOIESIS	RO1HE 04612-09	HEM	39,172
GABUZDA, THOMAS G	THE SYNTHESIS OF FETAL AND ADULT HEMOGLOBINS	RO1HD 01794-03	HEM	31,062
HARBERT, FRED	INVESTIGATION OF AUDITORY ADAPTATION	RO1NB 05082-04	CMS	33,128
HAURANI, FARID I	ACUTE LEUKEMIA COOPERATIVE STUDY GROUP B	R10CA 05462-08	SRC	37,610
HAUSBERGER, FRANZ X	IN VIVO LIPOGENESIS BY ADIPOSE AND HEPATIC TISSUES	RO1AM 11138-02	MET	19,716
HEIMER, RALPH	NORMAL AND PATHOLOGICAL MACROGLOBULINS	RO1AM 11640-01S1	ALY	11,576
HERBUT, PETER A	PURIFICATION G PIG L-ASPARAGINASES ANTITUMOR ACTION	RO1CA 08123-04	PHRB	17,229
JACKSON, LAIRD G	RADIOAUTOGRAPHY CHROMOSOMES	RO1CA 06588-06	GEN	18,327
KALF, GEORGE F	HEART MITOCHONDRIA DNA IN PROTEIN SYNTHESIS	RO1HE 11033-02	BIO	22,330
KAZAL, LOUIS A	FRACTIONATION OF PLASMA COAGULANTS AND ANTICOAGULANTS	RO1HE 03544-10S1	HEM	12,000
KELLOW, WILLIAM F	GENERAL CLINICAL RESEARCH CENTER	MO1FR 00072-06	CLR	317,614
KELLOW, WILLIAM F	GENERAL RESEARCH SUPPORT GRANT	S01FR 05414-07	NSS	374,131
KOCSIS, J J	TISSUE METABOLISM AND FUNCTION OF TAURINE	RO1HE 09945-03	PHRA	24,738
KOSZALKA, THOMAS R	EMBRYOLOGIC ASPECTS OF CREATINE METABOLISM	RO1HD 02679-02	HED	20,384
KOWLESSAR, O DHODANAND	ROLE OF GLIADIN IN NONTROPICAL SPRUE CELIAC DISEASE	RO1AM 11058-03	GMA	35,481
KRAATZ, CHARLES P	MECHANISM OF ACTION OF BOTULINUM TOXIN	RO1NB 06900-02	PHRA	21,420
KRAMER, SIMON	HEAD AND NECK CANCER CHEMOTHERAPY RADIOTHERAPY TRIAL	RO1CA 10542-01	RAD	195,866
KRAMER, SIMON	PLANNING STUDY, RADIATION THERAPY RESEARCH AND CLINICA	RO1CA 10797-01	NSS	50,000

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INVESTIGATOR	PROJECT TITLE	GRANT NO	IRG	DOLLARS
PENNSYLVANIA—(CON.)				
LOVE, ROBERT	CYTOLOGY AND CHEMISTRY OF CELLULAR CONTROL MECHANISMS	RO1CA 05402-09	VR	86,112
MACKOWIAK, ROBERT C	ROLE OF BLOOD FLOW IN PANCREATIC EXOCRINE SECRETION	RO1AM 10639-03	GMA	13,413
MAGEE, JOSEPH H	RENAL GAS EXCHANGE AND FATTY ACID EXTRACTION	RO1GM 13438-02S1	GM	366
MAGEE, JOSEPH H	RENAL GAS EXCHANGE AND FATTY ACID EXTRACTION	RO1GM 13438-03	GM	8,666
MANTHEI, ROLAND W	DRUG METABOLISM IN MALNUTRITIONAL STATES	RO1AM 06953-06	NTN	25,629
MAURER, PAUL H	IMMUNOLOGICAL STUDIES WITH SYNTHETIC POLYPEPTIDES	RO1AI 07825-02	ALY	66,212
MERKLIN, ROBERT J	VISCERAL LYMPHATIC PATHWAYS AND CONNECTIONS	RO1HE 11245-02	CVB	12,215
MIKHAIL, GIRGIS	STEROIDS IN HUMAN OVARIAN VEIN BLOOD	RO1AM 11057-03	END	50,635
MOSKOWITZ, NORMAN	COMPARATIVE STUDIES OF THE AUDITORY SYSTEM	RO1NB 04420-06	NEUB	22,804
NEALON, THOMAS F, JR	CARDIOPULMONARY FUNCTION DURING SURGICAL OPERATIONS	RO1HE 03349-11	SGYB	25,463
PADULA, RICHARD T	FLUID DYNAMICS OF CARDIAC VALVULAR ACTION	RO1HE 11206-02	SGYB	16,523
PARKE, WESLEY W	VASA NUTRITIA OF THE CEREBRAL VESSELS	RO1HE 10961-02	PTHA	10,892
ROSA, CHARLES G	HISTO- AND CYTOCHEMISTRY OF THE UTERUS	RO1GM 06008-10	CBY	21,512
ROSENFELD, LEONARD M	INTESTINAL METABOLISM AND CELL POPULATION DYNAMICS	RO1AM 09704-03	GM	10,077
SATALOFF, JOSEPH	IN VITRO STUDIES OF OTOSCLEROSIS	RO1NB 06824-02	CMS	13,520
SCHEPARTZ, BERNARD	REGULATORY MECHANISMS IN TYROSINE METABOLISM	RO1AM 10245-03	MET	20,624
SCHNEIDER, JOHN J	GENERAL STUDIES IN STEROID METABOLISM	RO1AM 01255-12	END	42,719
SEDAR, ALBERT W	CYTOPHYSIOLOGY OF CELL-TYPES	RO1GM 04810-12	CB	15,465
SHAPIO, SANDOR S	CHEMICAL DESCRIPTION OF ACTIVATION OF PROTHROMBIN	RO1HE 09163-04	HEM	35,683
SIEGMAN, MARION J	METABOLISM AND CATION TRANSPORT IN MYOMETRIUM	RO1HD 03622-01	PHY	20,411
SMITH, HARRY L, JR	VIBRIO REFERENCE LABORATORY	R22AI 08403-01	SSS	54,649
SNYDER, ROBERT	LIVER TRIOSE PHOSPHATE ISOMERASE AND FATTY LIVER	RO1AM 11830-01	MET	34,067
SNYDER, ROBERT	BENZENE TOXICITY AND METABOLISM	RO1ES 00322-04	TOX	50,791
TSALTAS, THEODORE T	EFFECTS OF AGING AND HORMONES ON THE CARTILAGE MATRIX I	RO1HD 01502-04	MET	27,818
TSALTAS, THEODORE T	STUDIES OF TISSUE CULTURES OF MAMMALIAN CHONDROCYTES	RO1HD 03544-01	GMB	22,163
TURNER, DANIEL L	PHOSPHOLIPID THROMBOPLASTINS OF BLOOD	RO1AM 00533-21	HEM	24,799
VORBECK, MARIE L	MEMBRANE LIPIDS BIOSYNTHESIS AND FUNCTION	RO1HE 11394-01S1	PC	7,837
WEISS, ARTHUR J	MECHANISMS OF HOMOLOGOUS DISEASE	RO1CA 04100-09S1	IMB	5,313
WEISS, ARTHUR J	PHARMACOLOGY OF FLUORINATED PYRIMIDINES	RO1CA 07122-06	PHRB	19,369
WESSON, LAURENCE G, JR	RENAL FUNCTION AND ELECTROLYTE EXCRETION IN MAN	RO1HE 10029-03	CVB	18,613
WIRTS, CHARLES W	SMALL BOWEL BACTERIAL FLORA AND MALABSORPTION	RO1AM 09141-02S1	BM	18,326
YOUNES, S MAMDOUH	BORDERLINE LESIONS AND CARCINOMA IN SITU OF THE CERVIX	RO1CA 10133-02	PTHB	20,896
ZERVAS, NICHOLAS T	STEREOTAXIC GUIDE TO HYPOPHYSIS	RO1AM 11326-02	NEUA	4,247
INSTITUTION TOTAL	65 2,406,628			
KENSINGTON HOSPITAL				
SPECTOR, MARTIN	LATEROTORSION AND STEPPING TEST	RO1NB 06834-02	CMS	4,565
INSTITUTION TOTAL	1 4,565			
LANKENAU HOSPITAL				
BARRY, ALAN J	PHYSICAL TRAINING ON POSTINFARCTION PATIENTS	RO1HE 10453-03	AFY	28,049
BORTZ, WALTER M II	THE EFFECT OF DIET ON METABOLISM OF FAT IN MAN	PO2AM 08887-04	AMP	209,710
HOLMES, WILLIAM L	METABOLISM DURING EXERCISE IN HEALTH AND DISEASE	RO1HE 07687-06	MET	63,467
HOLMES, WILLIAM L	GENERAL RESEARCH SUPPORT GRANT	SD1FR 05585-04	NSS	117,014
INSTITUTION TOTAL	4 418,240			
MISERICORDIA HOSPITAL				
LYNCH, J EDWARD	ADJUVANT UTERINE CANCER CHEMOTHERAPY	RO1CA 07694-05	SRC	564
TURCHI, JOSEPH J	EXTRACORPOREAL IRRADIATION OF BLOOD	RO1CA 10219-02	RAD	31,031
INSTITUTION TOTAL	2 31,595			
PENNSYLVANIA HOSPITAL				
BOGGS, THOMAS R, JR	ALBUMIN BINDING CAPACITY AND KERNICTERUS	RO1NB 06919-01S1	HED	6,855
BOGGS, THOMAS R, JR	ALBUMIN BINDING CAPACITY AND KERNICTERUS	RO1NB 06919-02	HED	36,299
CATHCART, H ROBERT	GENERAL RESEARCH SUPPORT GRANT	SD1FR 05590-04	NSS	130,278
HEDGES, THOMAS R	EFFECTS OF INTRACRANIAL HYPERTENSION ON VISUAL SYSTEM	RO1NB 05488-03S1	VIS	20,727
LING, GILBERT N	ION PERMEABILITY AND TRANSPORT	RO1GM 11422-04S1	PHY	7,605
LING, GILBERT N	ION PERMEABILITY AND TRANSPORT	RO1GM 11422-05	PHY	35,519
OLEN, ELSE	CYTOCHEMISTRY AND ULTRASTRUCTURE OF EXPERIMENTAL GOITER	RO1AM 10869-02	PTHB	17,804
SCHUTTA, HENRY S	EFFECTS OF ACUTE BILIRUBIN INTOXICATION ON THE CNS	RO1NB 06899-01S1	NEUA	3,915
SCHUTTA, HENRY S	EFFECTS OF ACUTE BILIRUBIN INTOXICATION ON THE CNS	RO1NB 06899-02	NEUA	23,933
SHEFF, MICHAEL F	ELECTROLYTES IN TETANUS INTOXICATION	RO1NB 06609-02S1	NEUB	4,435
INSTITUTION TOTAL	10 287,370			
PENNSYLVANIA STATE DEPARTMENT OF PUBLIC WELFARE--EASTERN PENNSYLVANIA PSYCHIATRIC INSTITUTE				
VANDERHEIDEN, BERNARDO S	BIOSYNTHESIS, ROLE AND GENETICS OF ERYTHROCYTE ITP	RO1AM 11116-02	HEM	21,622
INSTITUTION TOTAL	1 21,622			
PENNSYLVANIA UNIVERSITY OF				
ABELSON, NEVA M	BLOOD GROUP ANTIBODIES: NORMAL AND PATHOLOGIC	RO1GM 06218-08S1	ALY	656
ABELSON, NEVA M	BLOOD GROUP ANTIBODIES: NORMAL AND PATHOLOGIC	RO1GM 06218-09	ALY	13,960
ALLAM, MARK W	GENERAL RESEARCH SUPPORT GRANT	SD1FR 05464-06	NSS	220,524
AUSTRIAN, ROBERT	RESPIRATORY INFECTION AND RESPIRATORY PATHOGENS OF MAN	RO1AI 05100-06	ALY	136,466
BARKER, EARL S	STUDIES IN RENAL PATHOLOGIC PHYSIOLOGY	RO1HE 00405-19	CVA	41,256
BARNES, LEWIS A	PHENOL METABOLISM	RO1AM 02231-10	MET	38,915

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INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRG	DOLLARS
PENNSYLVANIA—(CON.)				
BAUM, STANLEY	PREOPERATIVE SITES OF G I BLEEDING	ROIAM 08136-05	SCYB	25,559
BAUM, STANLEY	SELECTIVE RETROGRADE OVARIAN & SPERMATIC VENOGRAPHY	ROICA 07599-03	RAD	10,826
BEAUDREAU, DAVID E	GOLGI TENON ORGAN INFLUENCE ON CYCLIC JAW MOVEMENT	ROIDE 02496-02	DEN	11,522
BELLO, LEONARD J	TRANSCRIPTION AND TRANSLATION IN MAMMALIAN CELLS	ROIGM 13434-03	GEN	24,966
BERKOWITZ, DAVID	THE METABOLISM OF CHOLESTEROL AND RELATED COMPOUNDS	ROIAM 07202-05	MET	28,697
BERKOWITZ, DAVID B	A BIOCHEMICAL GENETIC STUDY OF BACTERIAL LIPIDS	ROINB 07518-01	PC	34,523
BIANCHI, CARMINE PAUL	ELECTROLYTES IN NERVE AND MUSCLE FUNCTION	ROINB 03321-08	PHRA	27,472
BIGGERSTAFF, ROBERT H	THE ANALYSIS OF DENTITIONS BY ELECTRONIC METHODS	ROIDE 02506-01S1	DEN	16,538
BILLINGHAM, RUPERT E	BIOLOGY AND IMMUNOLOGY OF TISSUE TRANSPLANTATION	ROIAI 07001-03	IMB	99,184
BLAKEMORE, WILLIAM S	GENERAL CLINICAL RESEARCH CENTER	MOIFR 00322-02	CLR	133,154
BLAKEMORE, WILLIAM S	SURGERY FOR ASSISTED AND TOTAL BYPASS BLOOD CHANGES	ROIHE 11276-02	SGYA	77,415
BLUEMLEY, LEWIS W, JR	GENERAL CLINICAL RESEARCH CENTER	MOIFR 00040-08	CLR	385,874
BOCCHIERI, SAMUEL F	ACTIVATED PTERIDINE COUPLING IN FOLATE BIOSYNTHESIS	ROIDE 02570-02	BM	25,498
BORNSTEIN, DONALD L	LEUCOCYTTIC PYROGENS	ROIAI 08037-01	ALY	56,490
BRENNAN, JAMES T	14 I MEV NEUTRONS IN RADIOTHERAPY	ROICA 10059-01S2	NSS	34,160
BRENNAN, JAMES T	14 I MEV NEUTRONS IN RADIOTHERAPY	ROICA 10059-02	NSS	59,917
BRIGHT, HAROLD J	MECHANISM OF ENZYME ACTION	ROIGM 11040-05	PC	27,628
BRINSTER, RALPH L	ACTION OF ANTIFERTILITY COMPOUNDS	ROIHD 02315-02	REB	28,237
BRINSTER, RALPH L	ENERGY METABOLISM IN PREIMPLANTED MAMMALIAN EMBRYOS	ROIHD 03071-01	REB	52,828
BRODEY, ROBERT S	STUDIES OF FELINE LYMPHOSARCOMA	ROICA 10401-01	VR	24,378
BRODY, JEROME I	ACQUIRED HEMOLYTIC ANEMIA OF LYMPHOCYTTIC LEUKEMIA	ROICA 07000-06	HEM	10,587
BRODY, JEROME S	CONTROL MECHANISMS IN THE PULMONARY CIRCULATION	ROIHE 11767-01	CVB	16,005
CHANCE, BRITTON	THE REGULATION OF CELLULAR ENERGY METABOLISM	POIGM 12202-05	GMP	649,495
CHARALAMPOUS, FRIXOS C	BIOCHEMICAL FUNCTIONS OF INOSITOL	ROICA 02228-15	MBY	53,224
COBURN, RONALD F	CARBON MONOXIDE PRODUCTION AND BODY CO STORES	ROIHE 10331-03	PHY	12,222
COHEN, D WALTER	PERIODONTAL DISEASE IN NATURAL AND ALTERED ENVIRONMENTS	POIDE 02260-01A2S1	DEP	7,838
COHEN, D WALTER	PERIODONTAL DISEASE IN NATURAL AND ALTERED ENVIRONMENTS	POIDE 02260-02	DEP	106,860
COHEN, D WALTER	CONFERENCE ON CLINICAL METHODS IN PERIODONTAL DISEASE	R13DE 02551-02	NSS	3,000
COHEN, SEYMOUR S	STRUCTURE, FUNCTION AND SYNTHESIS OF CELLULAR ORGANELLES	POIAI 07005-03	VR	291,030
COHN, MILDRED	NMR STUDIES OF MACROMOLECULES AND THEIR INTERACTIONS	ROIGM 12446-04	BBCC	34,034
COOPER, DAVID Y	ACTION OF CATECHOLAMINES ON HYDROXYLATION OF STEROIDS	ROIAM 04484-08	END	32,116
DAVIES, ROBERT E	THE ENERGY SOURCE FOR CONTRACTION OF MUSCLE	ROIHE 02520-12	BIO	33,059
DAVIS, RICHARD A	EFFECTS OF HYPOTHALAMIC LESIONS ON GASTRIC SECRETION	ROIAM 03596-09	NEUA	15,804
DENTON, ROBERT	BRONCHOPULMONARY OBSTRUCTION IN CYSTIC FIBROSIS	ROIAM 03563-09	AMP	67,043
DETWEILER, DAVID K	COMPARATIVE CARDIOVASCULAR STUDIES UNIT	ROIHE 04885-09	SRC	235,133
DRIPPS, ROBERT D	RESEARCH IN ANESTHESIA	POIGM 09070-06	GMP	328,976
DRIPPS, ROBERT D	CENTER FOR RESEARCH IN ANESTHESIA	POIGM 15430-01S1	GMP	121,369
DU BOIS, ARTHUR B	AIRWAY OBSTRUCTION AND RIGHT HEART STRAIN	ROIHE 04797-09	CVA	16,685
EHRENSTEIN, MAXIMILIAN R	SYNTHESIS OF STEROIDS	ROICA 00757-13	END	70,813
EILERS, ROBERT D	ANTICIPATED BEHAVIOR OF DENTISTS UNDER REIMBURSEMENT PLA	ROIDH 00114-02	HSR	10,427
EISENHARDT, RUDOLF H	ENERGY TRANSFER IN OXIDATIVE PHOSPHORYLATION	ROICA 06266-07	BIO	19,341
EISENMAN, JOSEPH S	PERIPHERAL THERMAL INPUT TO THE HYPOTHALAMUS	ROINB 04301-06	NEUB	4,205
ELKINS, WILLIAM L	IMMUNOLOGICALLY ACTIVE MONONUCLEAR CELL INFILTRATES	ROIAI 07423-02	IMB	15,562
ELKINTON, J RUSSELL	ELECTROLYTE DISTURBANCES IN CARDIOVASCULAR RENAL DISEASE	ROIHE 00340-19	CVA	118,529
ENGLANDER, S WALTER	STUDIES ON BIOLOGICAL MACROMOLECULES	ROIAM 11295-02	BBCA	35,673
EPSTEIN, ALAN N	THE NEUROLOGICAL BASES OF FEEDING AND DRINKING	ROINB 03469-07	EPA	38,672
ERULKAR, SOLOMON D	DISCHARGE PATTERNS IN RESPONSE TO BINAURAL STIMULATION	ROINB 02941-09	CMS	17,250
FEIGL, ERIC O	NEURAL CONTROL OF CIRCULATORY PATTERNS	ROIHE 09061-04	PHY	38,779
FERGUSON, JAMES J, JR	BIOCHEMISTRY OF ADRENOCORTICOTROPIN ACTION	ROIAM 07207-04	END	23,040
FERGUSON, JAMES J, JR	METABOLIC CONTROL BY ALLOSTERIC TRANSITIONS	ROIAM 11400-02	BIO	20,326
FLAKS, JOEL G	METABOLISM OF NORMAL AND BACTERIOPHAGE INFECTED ESCHERIC	ROIAI 03899-08	MCB	38,954
FORSTER, ROBERT E	PLACENTAL EXCHANGE, PARTICULARLY WITH O2 AND CO	ROIHD 01860-03	HED	18,310
FORSTER, ROBERT E	MEASUREMENT OF RATES OF GAS UPTAKE BY HUMAN RED CELLS	ROIHE 04108-10	PHY	20,287
FORSTER, ROBERT E	CONFERENCE ON CO2 CHEMICAL, BIOCHEMICAL AND PHYSIOLOGIC	R13HE 12159-01	NSS	2,750
FRANKEL, FRED R	REPLICATION OF THE DNA OF T-EVEN BACTERIOPHAGES	ROIAI 05722-05	VR	33,653
FRIEDENBERG, ZACHARY B	DIRECT CURRENT POTENTIALS IN GROWING AND MATURE BONE	ROIAM 08813-04	SCYB	12,723
FURTH, JOHN J	RNA METABOLISM IN MAMMALIAN CELLS	ROIGM 10390-06	PC	20,741
CARFINKEL, DAVID	MEDICAL SCHOOL COMPUTER FACILITY	PO7FR 00015-06	COM	184,462
GEORGE, PHILIP	HEMOPROTEIN STRUCTURE AND REACTIVITY	ROIAM 03187-12	BBCA	36,136
GEORGE, PHILIP	THE THERMODYNAMICS OF CHEMICAL REACTIONS	ROIAM 04764-07S1	BBCA	17,815
GERSH, EILEEN S	CHROMOSOME STRUCTURE AND GENETIC FUNCTION	ROIGM 14607-02	GEN	27,105
GERSTEIN, GEORGE L	STUDIES OF INTERACTIONS BETWEEN NEURONS	ROINB 05606-03S1	NEUB	10,451
GERSTEIN, GEORGE L	STUDIES OF INTERACTIONS BETWEEN NEURONS	ROINB 05606-04	NEUB	92,672
GINSBERG, HAROLD S	BIOCHEMICAL CHANGES IN VIRUS-INFECTED CELLS	ROIAI 03620-08	VR	80,497
GINSBERG, HAROLD S	MECHANISMS OF VIRAL ECLIPSE AND ASSEMBLY	ROIAI 05731-05	BM	30,091
GOLDBERG, MARTIN	RENAL AND EXTRARENAL CAUSES OF BODY FLUID DISORDERS	ROIHE 07284-07	GM	14,061
GONATAS, NICHOLAS K	CEREBRAL CORTICAL BIOPSIES	ROINB 05572-03S2	PTHA	860
GONATAS, NICHOLAS K	CEREBRAL CORTICAL BIOPSIES	ROINB 05572-04	PTHA	19,707
GOODGAL, SOL H	STUDIES ON TRANSFORMATION IN H INFLUENZA	ROIAI 04557-07	GEN	84,292
GORN, SAUL	RESEARCH ON MECHANICAL LANGUAGES AND THEIR PROCESSORS	ROIGM 13494-03	COM	31,996
GOTS, JOSEPH S	BIOSYNTHESIS OF PURINES	ROICA 02790-13	BIO	31,091
GOTTLIEB, ARLAN J	STRUCTURE AND FUNCTION OF THE HEMOGLOBINS	ROIAM 11984-01	PC	78,438
GURIN, SAMUEL	GENERAL RESEARCH SUPPORT GRANT	SOIFR 05415-07	NSS	478,705

TABLE 2—RESEARCH GRANTS, BY AREA, INSTITUTION, AND PRINCIPAL INVESTIGATOR

INVESTIGATOR	PROJECT TITLE	GRANT NO	IRG	DOLLARS
PENNSYLVANIA—(CON.)				
HABA, GABRIEL DE LA	TISSUE SPECIFIC PHOSPHORYLASE IN EMBRYOGENESIS	RO1GM 06970-08S1	MBY	3
HAN, PAUL W	HYPOTHALAMIC CONTROL OF FOOD INTAKE AND GROWTH	RO1AM 11731-01	GMB	11,815
HAND, PETER J	FIBER PROJECTIONS FROM THE NUCLEUS GRACILIS	RO1NB 06376-03	NEUA	12,232
HARE, WILLIAM C	CHROMOSOMAL STUDIES IN THE DOMESTIC ANIMALS	RO1FR 00120-04	GEN	33,888
HAUGAARD, NIELS	ACTIONS OF AUTONOMIC DRUGS ON CARBOHYDRATE METABOLISM	RO1HE 01813-14	PHRA	55,906
HEROLD, RICHARD C	COMPARATIVE FINE STRUCTURE AND DEVELOPMENT OF DENTINES	RO1DE 02575-02	DEN	33,889
HEYNER, SUSAN	STUDIES ON THE TRANSPLANTATION OF CARTILAGE	RO1AI 07591-02	IMB	26,882
HILDRETH, EUGENE A	RELATIONSHIP BETWEEN BRONCHIOLITIS & ALLERGIC ASTHMA	RO1AI 06471-04	IMB	3,762
HOBSTETTER, JOHN N	BIOMEDICAL SCIENCES SUPPORT	S05FR 07083-03	NSS	90,109
HOBCHSTRASSER, ROBIN M	PHOTOPROCESSES IN THE ORGANIC SOLID STATE	RO1GM 12592-04	BBCA	39,110
HOLLANDER, JOSEPH L	EFFECT OF CLIMATE CONTROL ON THE RHEUMATIC DISEASES	RO1AM 05322-07	GM	42,350
HOLTZER, HOWARD	MECHANISMS IN DIFFERENTIATION OF MESODERMAL TISSUES	RO1HD 00189-15	MBY	28,352
HURVICH, DOROTHEA J	VISION LINEAR AND NON-LINEAR CHARACTERISTICS	RO1NB 04342-07	VIS	51,431
HURVICH, LEO M	VISUAL MECHANISMS TEMPORAL AND INDUCTIVE ASPECTS	RO1NB 04342-05S1	VIS	2,075
HYDE, RICHARD W	INTERRELATION OF PULMONARY DIFFUSION TO BLOOD FLOW	RO1HE 10324-03	PHY	16,579
INOUE, SHINYA	STUDIES OF SUBMICROSCOPIC STRUCTURE OF LIVING CELLS	RO1CA 10171-03	CB	54,484
ITADA, NOBUTOMO	OXYGEN TRANSFER REACTIONS DURING OXYGEN METABOLISM	RO1GM 15104-02	MCHA	16,745
IYENGAR, RAJA M	INTERACTION OF NUCLEOTIDES WITH ACTIN	RO1AM 08345-04	PC	22,144
JACKSON, DONALD C	HEAT PRODUCTION OF DIVING REPTILES	RO1GM 14562-02	AFY	3,500
JACOBOWITZ, DAVID M	LOCALIZATION OF BIOGENIC MONOAMINES	RO1NB 06707-02	PHRA	16,265
JOULLIE, MADELEINE M	THE PREPARATION AND REACTIONS OF BENZOTRIAZOLES	RO1CA 07911-02S1	MCHB	2,252
KAJI, AKIRA	BIOCHEMICAL CONTROL OF MACROMOLECULE SYNTHESIS	RO1GM 12053-05	PC	40,924
KALLEN, ROLAND G	MECHANISMS OF BIOCHEMICAL C-C AND C-N BOND FORMATION	RO1GM 13777-03	BIO	25,812
KARUSH, FRED	IMMUNOGLOBULINS AND STREPTOCOCCAL PROTEINS	RO1HE 06293-08	ALY	62,065
KATCHER, AARON H	BEHAVIOUR OF LABILE COLLATERALLY SUPPLIED MYOCARDIUM	RO1HE 12163-01	CVA	15,993
KAY, CALVIN F	BIOCHEMISTRY AND BIOPHYSICS IN CARDIOVASCULAR DISEASE	PO1HE 08805-04	HEPB	422,427
KING, GERALDINE	COOPERATIVE STUDY OF CEREBRAL ANEURYSMS	RO1NB 02373-11	SSS	5,352
KLEINZELLER, ARNOST	ACTIVE SUGAR TRANSPORT IN RENAL CELLS	RO1AM 12619-01	PHY	63,185
KOELLE, GEORGE B	NEUROHUMORAL TRANSMITTERS AND RELATED DRUGS	RO1NB 00282-15S1	PHRA	446
KOELLE, GEORGE B	NEUROHUMORAL TRANSMITTERS AND RELATED DRUGS	RO1NB 00282-16	PHRA	124,833
KOWALSKY, ARTHUR	NMR STUDIES OF PROTEINS AND MACROMOLECULES	RO1NB 06940-06	BBCB	12,050
KOZINSKI, ANDRZEJ W	INTERACTION OF VIRUSES WITH HOST CHROMOSOMES	RO1CA 10055-03	VR	34,209
KROGMAN, WILTON M	MEDICAL, DENTAL RESEARCH VIA PHILADELPHIA GROWTH NORMS	RO1HD 02532-02	SSS	24,738
KRON, REUBEN E	INFLUENCES UPON NEONATAL SUCKING BEHAVIOR	RO1HD 03271-05	PC	35,820
KRONFELD, DAVID S	METABOLIC STUDIES ON BOVINE TICOSIS	RO1AM 04927-08	MET	28,829
KRONFELD, DAVID S	CALCIUM HOMEOSTASIS DIETARY AND ENDOCRINE INFLUENCES	RO1AM 12112-01	GMB	43,436
KUHL, DAVID E	IMAGE SEPARATION ISOTOPE SCANNING IN CANCER DETECTION	RO1CA 04456-10	RAD	37,148
LAMBERTSEN, CHRISTIAN J	STUDIES OF HYPERBARIC OXYGENATION	PO1HE 08899-03S1	HEP	306
LAMBERTSEN, CHRISTIAN J	STUDIES OF THE HYPERBARIC ENVIRONMENT	PO1HE 08899-04	HEP	90,268
LAMBERTSEN, CHRISTIAN J	CO ₂ , HIGH PO ₂ , AND CENTRAL NERVOUS RESPIRATORY CONTROL	RO1HE 08184-05	CVA	95,267
LANGNER, PAUL H, JR	HIGH FREQUENCY ELECTROCARDIOGRAPHY AND HEART DISEASE	RO1HE 10094-03	CVB	3,957
LASH, JAMES W	ANALYSIS OF CHONDROGENESIS	RO1HD 00380-10	CBY	33,577
LATIES, ALAN M	A HISTOCHEMICAL STUDY OF AUTONOMIC INNERVATION OF EYE	RO1NB 06092-03	VIS	20,092
LAWRENCE, WILLIAM C	MACROMOLECULAR SYNTHESIS IN HERPESVIRUS INFECTION	RO1AI 07873-02	VR	24,135
LEBOY, PHOEBE S	ISOLATION OF NUCLEIC ACID METHYLASE MUTANTS	RO1CA 10586-01	MBC	16,723
LEVITT, MELVIN	SPINAL SENSORY TRACTS AND SOMESTHESIS	RO1NB 05234-03S1	NEUB	1,151
LEVITT, MELVIN	SPINAL SENSORY TRACTS AND SOMESTHESIS	RO1NB 05234-04	NEUB	20,262
LI, HUI-LIN	ALKALOID-BEARING PLANTS AND THEIR ALKALOIDS	RO1LM 00346-02	MCHB	24,569
LIEBMAN, PAUL A	MICROPHOTOMETRIC STUDIES ON RETINAL RODS AND CONES	RO1NB 04935-05	VIS	43,304
LIEF, FLORENCE S	RESPIRATORY VIRUSES OF MAN AND LOWER ANIMALS	RO1AI 07142-02	VR	80,324
LUCHI, ROBERT J	CORE CARDIOVASCULAR RESEARCH FACILITIES	PO1HE 06352-08	HEP	124,070
LUOWIG, GEORGE D	STUDIES OF PORPHYRIN METABOLISM	RO1AM 02872-09	HEM	34,424
MARSH, JULIAN B	NUCLEIC ACID CONTROL OF MAMMALIAN PROTEIN SYNTHESIS	RO1AM 00831-13	MET	55,779
MARSH, JULIAN B	BIOSYNTHESIS OF PLASMA LIPOPROTEIN	RO1HE 05285-08	MET	23,107
MARSHAK, ROBERT R	BOVINE LYMPHOSARCOMA HERD FOR RESEARCH	P06FR 00182-05	SSS	45,924
MARSHAK, ROBERT R	STUDIES ON BOVINE LYMPHOSARCOMA AND LEUKEMIA	RO1CA 06352-07	HEM	68,865
MASLAND, WILLIAM S	PHYSIOLOGICAL STUDIES OF NEURAL CONTROL OF RESPIRATION	RO1NB 06569-02	PHY	22,812
MASTROIANNI, L	PRIMATE RESOURCE STUDIES IN REPRODUCTIVE BIOLOGY	P06FR 00340-02	PME	107,283
MC GRATH, JOHN T	A STUDY OF LIPODYSIS	RO1NB 07900-01	PTHA	3,500
MELLMAN, WILLIAM J	BIOCHEMISTRY OF HUMAN CHROMOSOMAL ANEUPLOIDY	RO1HD 00588-06	GEN	50,610
MENDELSON, MORTIMER L	RADIOBIOLOGICAL TECHNIQUES IN HUMAN CANCER THERAPY	RO1CA 03896-11	RAD	33,973
MIKUTA, JOHN J	ADJUVANT UTERINE CANCER CHEMOTHERAPY	RO1CA 07816-05	SRC	2,544
MILDVAN, ALBERT S	KINETIC AND NMR STUDIES OF METAL ACTIVATED ENZYMES	RO1AM 09760-03	BIO	11,316
MILLER, BENJAMIN F	A STUDY OF SPECIFIC BETA- GLUCURONIDASE	RO1HE 09827-02S1	PTHA	1,224
MILLER, LEONARD D	SHOCK - HEPATORENAL SYNDROME - BOWEL ISCHEMIA	RO1HE 10416-03	SGYA	34,873
MORRISON, ADRIAN R, JR	CORTICAL THALAMIC RELATIONSHIPS	RO1NB 06716-02	NEUA	13,960
MORTON, HARRY E	INVOLVEMENT OF MYCOPLASMA IN SOME TYPES OF ARTHRITIS	RO1AI 07436-02	BM	25,905
MURPHY, JOHN J	PARTICLE DYNAMICS IN URINARY TRACT INFECTIONS	RO1AM 11479-02	SGYA	26,513
NACHMIAS, JACOB	MECHANISMS OF LUMINANCE DETECTION AND DISCRIMINATION	RO1NB 06050-03	VIS	29,544
NEMETH, ANDREW M	INDUCTION AND DEVELOPMENT OF LIVER ENZYMES	RO1HD 00375-12	HEO	18,317
NEMIR, PAUL, JR	MECHANISMS OF TOXICITY OF HEMOGLOBIN DERIVATIVES	RO1HE 10147-03	PHRA	17,005
NOORDERGRAAF, ABRAHAM	COMPUTER STUDIES OF HUMAN CIRCULATORY SYSTEM	RO1HE 10330-03	COM	93,152
NOWELL, PETER C	CELL BIOLOGY OF NEOPLASIA	PO1CA 10320-01	PTHB	131,514

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INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRG	DOLLARS
PENNSYLVANIA—(CON.)				
OLIET, SEYMOUR	STUDY AND IMPROVEMENT OF ROOT CANAL INSTRUMENTS	RO1DE 02566-01	DEN	21,717
OSKI, FRANK A	JAUNDICE IN INFANTS WITH ERYTHROCYTE G-6-PD DEFICIENCY	RO1AM 12255-01	HEM	12,571
OSKI, FRANK A	ERYTHROCYTE METABOLISM IN THE PREMATURE INFANT	RO1HD 01919-03	HEM	9,076
PATTERSON, DONALD F	HEREDITARY DEFECTS IN CARDIOVASCULAR DEVELOPMENT	RO1HE 1D995-01A1	CVB	46,442
PEPE, FRANK A	ELECTRON MICROSCOPIC AND CHEMICAL STUDIES OF MUSCLE	RO1AM 04806-08	BBCB	26,209
PETERSON, LYSLE H	CARDIOVASCULAR CONTROL BY NEURAL AND CHEMICAL SYSTEMS	PO1HE 07762-06	HEPB	382,738
PIATT JEAN	THE EFFECTS OF X RAYS UPON EMBRYONIC DEVELOPMENT	RO1HD 00513-08	CBY	15,494
PIZER, LEWIS I	A STUDY OF METABOLIC CONTROL MECHANISMS	RO1AI 03957-08	BIO	39,458
PRICE, CHARLES C	QUANTITATIVE STUDY OF ALKYLATION OF DNA COMPONENTS	RO1CA 08485-03	MCHB	16,577
RASMUSSEN, HOWARD	STUDIES OF HORMONE ISOLATION AND HORMONE ACTION	RO1AM 09650-04	END	89,106
RASMUSSEN, HOWARD	THE METABOLIC EFFECTS OF HYPERBARIC OXYGEN	RO1AM 12013-01	GMB	20,638
RAVDIN, ROBERT G	COOPERATIVE BREAST CANCER GROUP STUDY	R10CA 10544-01	SRC	27,723
REIVICH, MARTIN	TRANSIENT CEREBRAL BLOOD FLOW STUDIES	RO1NB 06314-03	NEUA	48,210
REYNOLDS, MONICA	REGULATION OF MAMMARY CIRCULATION	RO1HE 04121-10	PHY	25,993
RHOADS, JONATHAN E	PROGRAM PROJECT IN TRAUMA AND SHOCK	PO1GM 15001-02	GMP	83,261
ROBERTS, BRYAN W	SYNTHESIS OF SESQUITERPENES	RO1GM 15916-01	MCHA	15,224
ROCKEY, JOHN H	MULTIPLE MOLECULAR FORMS OF ANTIHAPTEN ANTIBODY	RO1AI 05305-06	ALY	31,817
ROGERS, ADAIR	ARTIFICIAL HEART-HYDRAULIC CONTROL FULLY IMPLANTABLE	RO1HE 09707-03	CVA	56,347
ROSATO, FRANCIS E	SERUM GLYCOPROTEINS IN THE EVALUATION OF BREAST CANCER	RO1CA 10287-02	PTHB	11,178
ROSENBERG, CHARLES E	THE GERM THEORY COMES TO AMERICA, 1870-1910	RO1LM 00013-04	HLS	6,485
ROWLAND, LEWIS P	BIOMEDICAL CENTER FOR CLINICAL NEUROLOGIC DISORDERS	PO1NB 04613-05	NBPA	23,790
ROWLAND, LEWIS P	NEUROLOGICAL CLINICAL RESEARCH CENTER	PO1NB 08075-01	NBPA	270,313
RUBIN, LIONEL F	STUDIES ON CONGENITAL DAY BLINDNESS	RO1NB 04602-05	VIS	29,695
RUBIN, LIONEL F	RETINAL DYSPLASIA	RO1NB 06558-02	VIS	30,051
RUTMAN, ROBERT J	CHEMICAL BASIS OF NITROGEN MUSTARD ACTIVITY	RO1CA 05295-08	PHRB	172,285
SACHS, MARVIN L	CIRCULATORY AND POSTURAL FACTORS IN PRESSURE SORES	RO2NU 00146-04	NR	92,928
SALAPATEK, PHILIP H	VISUAL INFORMATION PROCESSING DURING INFANCY	RO1HD 03405-01	DBR	38,089
SCHOENBERG, HARRY W	NEUROMUSCULAR DYSFUNCTION OF URINARY BLADDER	RO1AM 08090-05	SGYA	16,220
SCHWAN, HERMAN P	ELECTRICAL PROPERTIES OF BIOLOGICAL MATERIALS	RO1HE 01253-16	BBCB	41,843
SCHWARTZMAN, ROBERT M	STUDIES OF CANINE REAGINIC ANTIBODIES	RO1AI 07512-02	IMB	19,362
SCOTT, DONALD, JR	MECHANISM OF SENSATION ARISING IN THE TOOTH	RO1DE 02062-05	DEN	21,213
SCOTT, DWIGHT B	GLUCOSE OXIDATIVE ENZYMES	RO1CA 04170-09S1	MET	6,945
SLOVITER, HENRY A	ERYTHROCYTE LIPIDS AND CELLULAR FUNCTION	RO1HE 06108-08	HEM	17,922
SLOVITER, HENRY A	REGULATION OF METABOLISM BY THE BRAIN	RO1NB 02032-10	NEUB	42,320
SMITH, GERARD P	VISCERAL FUNCTIONS OF THE HIPPOCAMPUS	RO1NB 06073-03	NEUA	17,868
SOMA, LAWRENCE R	EFFECTS OF GENERAL ANESTHETICS ON THE FETUS	RO1GM 14766-02	HED	22,734
SOULSBY, ERNEST J	HELMINTH IMMUNITY IN VITRO AND IN VIVO CORRELATES	RO1AJ 06262-04	TMP	42,953
SPRAGUE, JAMES M	NEURAL MECHANISMS OF VISION	RO1NB 05506-04	VIS	29,210
STARR, ISAAC	ESTIMATIONS OF CARDIAC STRENGTH AND COORDINATION	RO1HE 00625-19	CVB	18,513
STONE, HRANT H	SEROTONIN RESPONSES DURING ANESTHESIA AND OPERATION	RO1GM 13114-03	SGYB	22,075
TAYLOR, FLETCHER B, JR	ACTIVATION OF FIBRINOLYTIC SYSTEM	RO1HE 10907-03	HEM	20,737
TEITELBAUM, PHILIP	TEMPERATURE AND CALORIC REGULATION	RO1NB 05394-04	PHY	15,616
TEITELBAUM, PHILIP	DISTURBANCES IN FEEDING AFTER HYPOTHALAMIC LESIONS	RO1NB 05937-03S1	NEUA	1,622
TEITELBAUM, PHILIP	DISTURBANCES IN FEEDING AFTER HYPOTHALAMIC LESIONS	RO1NB 05937-04	NEUA	55,198
THORNTON, EDWARD R	MECHANISMS OF SOME ENZYME-MODEL REACTIONS	RO1AM 12258-01	MCHA	16,710
THORNTON, EDWARD R	MASS SPECTRAL AND ELECTRICAL DISCHARGE STUDIES	RO1GM 10693-06	MCHA	37,424
TOUCHSTONE, JOSEPH C	A STUDY OF ADRENAL AND OVARIAN SECRETIONS	RO1HD 01199-11	END	55,442
TSOU, K C	CYTOCHEMICAL SUBSTRATES AND ANTI-CANCER AGENTS	RO1CA 07339-04S1	PHRB	23,450
TSOU, K C	CYTOCHEMICAL SUBSTRATES AND ANTI-CANCER AGENTS	RO1CA 07339-05	PHRB	99,696
TYERS, G FRANK	NONOPERATIVE REPAIR OF INTERNAL CARDIAC STIMULATORS	RO1HE 10865-02	SGYA	10,335
WALDHAUSEN, JOHN A	PULMONARY FUNCTION STUDIES IN THE TRANSPLANTED LUNG	RO1HE 11260-01S1	SGYA	2,039
WALKER, GEOFFREY F	ANALYSIS OF SKULL SHAPES BY ELECTRONIC METHODS	RO1HD 00181-05	SSS	83,763
WAYLAND, BRADFORD B	A STUDY OF THE CARBONYL INSERTION REACTION	RO1GM 13341-02	MCHB	16,843
WEBER, WILFRIED T	LYMPHOCYTE FUNCTIONAL CAPACITIES	RO1AM 11693-01	IMB	19,702
WILCOX, WESLEY C	VACCINIA VIRUS ANTIGENS STRUCTURAL ROLE AND FUNCTION	RO1AI 06422-04	VR	29,081
WILDE, CHARLES E, JR	DENTAL SCHOOL RESEARCH IN CELLULAR DIFFERENTIATION	PO1DE 02047-05	DEP	76,462
WILKINSON, J HENRY	ANALOGUE AND INHIBITOR STUDIES IN CLINICAL ENZYMOLOGY	RO1AM 10447-03	PC	12,469
WILLIAMS, MARGARET L	STUDY OF SWELLING RAT LIVER MITOCHONDRIA	RO1HD 01174-07	MBY	15,324
WILLIAMS, NED B	CENTER FOR ORAL HEALTH RESEARCH COHR	P13DE 02623-02	NSS	692,848
WILLIAMS, NED B	STUDIES ON THE ECOLOGY OF THE ORAL FLORA	RO1DE 01956-05	DEN	58,771
WILLIAMS, NED B	GENERAL RESEARCH SUPPORT GRANT	SO1FR 05337-07	NSS	81,324
WILLIAMS, WILLIAM J	METABOLIC ABNORMALITIES IN REFRACTORY ANEMIAS	RO1AM 07301-06	HEM	38,063
WILLIAMS, WILLIAM J	THE MECHANISM OF ACTION OF TISSUE THROMBOPLASTIN	RO1HE 06757-07	HEM	11,892
WINEGRAD, ALBERT I	STUDIES OF THE URONIC ACID PATHWAY IN HUMAN DIABETICS	RO1AM 04722-08	MET	31,489
WINEGRAD, SAUL	EXCITATION CONTRACTION COUPLING IN MUSCLE	RO1NB 04409-06	PHY	34,070
WOLFSON, SIDNEY K, JR	HYPOTHERMIA AND EXTENDED CIRCULATORY ARREST	RO1HE 08066-06	SGYB	34,961
YAMAMOTO, WILLIAM S	COMPUTER ASSISTED STUDY OF CO2 CONTROL OF VENTILATION	RO1HE 09284-04	PHY	29,704
INSTITUTION TOTAL	219	11,988,354		
PENNSYLVANIA WORKING HOME FOR THE BLIND				
CAIN, DENNIS F	RNA AND PROTEIN METABOLISM IN BRAIN SLICES	RO1NB 05433-03S1	BIO	8,815
INSTITUTION TOTAL	1	8,815		

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INVESTIGATOR	PROJECT TITLE	GRANT NO	IRG	DOLLARS
PENNSYLVANIA—(CON.)				
PHILADELPHIA COLLEGE OF OSTEOPATHY				
MERCER, SHERWOOD R	GENERAL RESEARCH SUPPORT GRANT	SO1FR 05440-07	NSS	25,000
INSTITUTION TOTAL	1	25,000		
PHILADELPHIA COLLEGE OF PHARMACY AND SCIENCE				
NIEBERGALL, PAUL J	CORRELATION OF METAL BINDING AND DRUG ACTIVITY	RO1AI 05321-06	MCHA	18,079
INSTITUTION TOTAL	1	18,079		
PHILADELPHIA GENERAL HOSPITAL				
BURGESS, BENJAMIN F, JR	GENERAL RESEARCH SUPPORT GRANT	SO1FR 05508-06	NSS	146,095
COOPER, EDWARD S	COOPERATIVE STUDY OF CEREBROVASCULAR DIS & HYPERTENSION	RO1NB 06932-02	SSS	17,374
GOODKIND, M JAY	THYROID HORMONE AND MYOCARDIAL CONTRACTILITY	RO1HE 09498-03S2	CVA	2,941
GYORGY, PAUL	NUTRITION RESEARCH IN INDDONESIA AND THAILAND	R22AM 05921-06	SSS	126,312
KERSHBAUM, ALFRED	EFFECT OF NICOTINE ON EXPERIMENTAL ATHEROSCLEROSIS	RO1HE 10790-02	CVA	25,097
LA BOCCETTA, ALFRED C	GENERAL CLINICAL RESEARCH CENTER	MO1FR 00107-05	CLR	265,695
MC HENRY, LAWRENCE C, JR	STROKE RESEARCH CENTER	PO2NB 06520-03	SSS	163,810
MUDD, STUART	CRITICAL ANTIGEN-ANTIBODY SYSTEMS OF STAPH AUREUS	RO1AI 05473-06	ALY	51,867
PROCKOP, DARWIN J	REGULATION OF CONNECTIVE TISSUE SYNTHESIS	RO1HD 00183-05	GMB	69,093
RIGGS, HELENA E	STUDY OF BRAIN HISTOLOGY IN THE PERINATAL PERIOD	RO1NB 03889-06	NEUA	6,002
ROSENBLOOM, JOEL	CHARACTERIZATION OF RIBOSOMAL PROTEINS OF VERTEBRATES	RO1GM 14583-02	MBY	20,490
SANDBERG, HERSCHEL	INHIBITORS OF PLASMIN AND PLASMINOGEN ACTIVATORS	RO1HE 05279-09	HEM	21,421
SHIP, IRWIN I	RECURRENT APHTHOUS ULCERS	RO1DE 02116-05	DEN	19,915
INSTITUTION TOTAL	13	936,112		
PHILADELPHIA GERIATRIC CENTER				
ALTSCHULER, HENRY	TRYPTOPHAN METABOLITES AND BLADDER CANCER	RO1CA 08604-02	PTHB	45,996
WALDMAN, ARTHUR	GENERAL RESEARCH SUPPORT GRANT	SO1FR 05611-01	NSS	14,875
INSTITUTION TOTAL	2	60,871		
PRESBYTERIAN-UNIVERSITY OF PENNSYLVANIA MEDICAL CENTER				
COPPERMAN, REUBEN	MYCOPLASMAL DERIVATIVES IN LEUKOCYTE CULTURE	RO1AI 08431-04A1	BM	28,385
COPPERMAN, REUBEN	LEUKOCYTE CULTURE IN RHEUMATOID ARTHRITIS	RO1AM 08869-03S1	PTHB	10,210
CORBIT, JOHN D, JR	ADJUVANT UTERINE CANCER CHEMOTHERAPY	RO1CA 07416-05	SRC	1,399
CUTT, ROGER A	COCHLEAR ASSESSMENT OF AUDITORY SENSITIVITY	RO1NB 04627-06	CMS	58,366
GARDNER, FRANK	GENERAL RESEARCH SUPPORT GRANT	SO1FR 05610-02	NSS	133,406
GARDNER, FRANK H	RED CELL PRODUCTION AND DESTRUCTION	RO1AM 11188-02	HEM	51,506
GARDNER, FRANK H	PLATELET PRESERVATION AND PHYSIOLOGY	RO1HE 11047-03	HEM	73,214
ISHIYAMA, EICHI	HISTOCHEMISTRY OF THE INNER EAR FOLLOWING CRYOSURGERY	RO1NB 05551-04	CMS	34,430
MELTZER, LAWRENCE E	ANTI-ARRHYTHMIC DRUGS IN ACUTE MYOCARDIAL INFARCTION	RO1HE 05965-06S1	SRC	11,597
MELTZER, LAWRENCE E	SPECIALIZED NURSING CARE IN ACUTE CIRCULATORY FAILURE	RO1NU 00263-02	NR	244,180
SOMLYO, ANDREW P	EXCITATION-CONTRACTION IN VASCULAR SMOOTH MUSCLE	RO1HE 08226-04A2	PHY	11,564
SOMLYO, ANDREW P	EXCITATION-CONTRACTION IN VASCULAR SMOOTH MUSCLE	RO1HE 08226-05	PHY	29,094
INSTITUTION TOTAL	12	687,351		
SIDNEY HILLMAN MEDICAL CENTER				
BERKOWITZ, DONALD	COOPERATIVE STUDY OF DRUGS AND CORONARY HEART DISEASE	RO1HE 11312-01S1	SRC	18,296
BERKOWITZ, DONALD	COOPERATIVE STUDY OF DRUGS AND CORONARY HEART DISEASE	RO1HE 11312-02	SRC	63,958
INSTITUTION TOTAL	2	82,254		
ST. CHRISTOPHER'S HOSPITAL FOR CHILDREN				
AUERBACH, VICTOR H	METABOLIC DISORDERS IN CHILDREN	RO1HD 02870-06	MET	52,348
VAUGHAN, VICTOR C III	GENERAL CLINICAL RESEARCH CENTER FOR CHILDREN	MO1FR 00075-05	CLR	183,812
VAUGHAN, VICTOR C, III	GENERAL RESEARCH SUPPORT GRANT	SO1FR 05624-02	NSS	40,461
INSTITUTION TOTAL	3	276,621		
TEMPLE UNIVERSITY				
ALEO, JOSEPH J	EXPERIMENTAL LATHYRISM IN VITRO	RO1DE 02547-02	PTHB	32,398
ALEO, JOSEPH J	GENERAL RESEARCH SUPPORT GRANT	SO1FR 05339-07	NSS	45,739
BALDRIDGE, ROBERT C	ALTERNATE PATHWAYS OF HISTIDINE METABOLISM	RO1AM 00650-14	MET	26,640
BALLARD, FRANCIS J	INTERRELATIONSHIPS OF GLUCONEOGENESIS AND LIPOGENESIS	RO1HD 02758-02	MET	19,458
BARBA, WILLIAM P	GENERAL RESEARCH SUPPORT GRANT	SO1FR 05417-07	NSS	332,276
BASERGA, RENATO	A STUDY OF FACTORS CONTROLLING CELLULAR PROLIFERATION	RO1CA 08373-03	PTHB	23,582
BASERGA, RENATO	ISOPROTERENOL-STIMULATED SALIVARY GLAND	RO1DE 02678-01	MBY	25,466
BUCHER, ROBERT M	GENERAL CLINICAL RESEARCH CENTER	MO1FR 00349-02	CLR	103,524
CAMPO, ROBERT D	PROTEINPOLYSACCHARIDES OF CARTILAGE	RO1AM 08376-05	PC	24,204
CHANNICK, BERTRAM J	STUDY OF METHOPYRAPONE INDUCED HYPERTENSION	RO1HE 11037-02	GMB	22,197
CONGER, ALAN D	RADIOBIOLOGY RESEARCH PROGRAM	RO1CA 08231-04	RAD	2,117
DALTON, DAVID R	STUDIES IN APOPHINE ALKALOIDS	RO1CA 08841-02	MCHA	26,481
DAVIES, RONALD E	VITAMIN A AND CHEMICAL TUMORIGENESIS IN RHINO MICE	RO1CA 07957-04	PTHB	36,988
DAVILA, JULIO C	PHYSICAL DETERMINANTS OF MYOCARDIAL PERFORMANCE	RO1HE 09882-03	SGYB	32,723
DE ALVAREZ, RUSSELL R	ADJUVANT UTERINE CANCER CHEMOTHERAPY	RO1CA 07355-05	SRC	1,774
DE ALVAREZ, RUSSELL R	LIPIDS IN GYNECOLOGIC CANCER	RO1CA 07919-03	MET	28,117
DE ALVAREZ, RUSSELL R	PLASMA AND TISSUE PHOSPHATIDES IN GYNECOLOGIC MALIGNANCY	RO1CA 08197-03S1	PTHB	2,067
GLAUSER, ELINOR M	EXPERIMENTALLY INDUCED CHRONIC PULMONARY DISEASE	RO1HE 08752-05	CVB	13,175

TABLE 2—RESEARCH GRANTS, BY AREA, INSTITUTION, AND PRINCIPAL INVESTIGATOR

INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRC	DOLLARS
PENNSYLVANIA—(CON.)				
GLAUSER, STANLEY C	PHYSICAL CHEMISTRY OF HUMAN HEMOPROTEINS	RO1AM 10072-04	HEM	12,500
GRAPPEL, SARAH F	IMMUNOCHEMICAL STUDY OF DERMATOPHYTE POLYSACCHARIDES	RO1AI 07705-02	BM	29,913
GROSCHTEL, DIETER H	INHERITED RESISTANCE TO MOUSE TYPHOID IN MICE	RO1AI 07679-02	BM	16,954
HANSON, RICHARD W	ASPECTS OF THE CONTROL OF LIPOGENESIS	RO1AM 11279-02	MET	14,162
HILLMAN, NINA W	THE EFFECT OF RNA AND DNA ON CEPHALIC TERATA	RO1HD 00827-05	CBY	36,620
HUGANIR, GEORGE H	BIOMEDICAL SCIENCES SUPPORT GRANT	S05FR 07115-01	NSS	37,613
ILAN, JOSEPH	EFFECT OF DRUGS ON RNA & PROTEIN SYNTH IN TRYPANOSOMATI	RO1AI 07943-02	TMP	32,610
KNAUFF, RAYMOND E	CORTICOSTERONE SECRETION IN UNSTRESSED RATS	RO1AM 11728-01	END	19,198
LAOTSCH, E V	PERCUTANEOUS CERVICAL CORDOTOMY	RO1NB 06866-02	NEUA	23,377
LEVITT, JANICE H	REFLEX AUTONOMIC MECHANISMS AND CARDIAC NECROSIS	RO1HE 10975-02	CVB	26,594
LITWACK, GERALD	REACTION BETWEEN HORMONES AND TYROSINE OXIDASE SYSTEM	RO1AM 08350-05	PC	38,767
LOTLIKAR, PRABHAKAR D	MECHANISM OF CARCINOGENESIS BY AROMATIC AMIDES	RO1CA 10604-01	PHRB	24,542
LYNCH, PETER R	RADIOLOGY PHYSIOLOGY CARDIOVASCULAR RESEARCH	RO1HE 08886-05	HEP	151,751
MC COY, ELBERT J	ELECTRICAL ACTIVITY IN THE SMALL INTESTINE OF DOGS	RO1AM 12411-01	PHY	10,993
NOWDNY, ALOIS	RELATION OF CHEMICAL STRUCTURE TO ENDOTOXIC ACTIVITY	RO1AI 05581-07	ALY	38,802
PAIK, WOON KI	AMPHIBIAN METAMORPHOSIS AND L-LYSINE METABOLISM	RO1AM 09602-02	PC	28,579
PHILIPS, CHARLES M	ANALOG COMPUTER MODELS OF THE HEART AND AORTA	RO1HE 11467-01	CVA	40,000
PHILLIPS, STEVEN J	INNERVATION OF TERMINAL BLOOD VESSELS	RO1HE 11439-01	CVB	22,608
PIERINGER, RONALD A	BACTERIAL LIPID METABOLISM	RO1AI 05730-05	MBC	24,827
PLOTNICK, IRWIN J	REACTION OF MANDIBULAR BONE TISSUE TO REDUCED STRESS	RO1DE 02517-01	DEN	41,576
PUIGGARI, MARCELO J	AMYGDALOID NUCLEUS AND GASTRIC SECRETIONS	RO1AM 10979-02	GMA	23,931
REICHLER, FREDERICK A	SEROTONIN METABOLISM IN THE DUMPING SYNDROME	RO1AM 09385-04	GMA	22,272
REIDENBERG, MARCUS M	PARATHYROID AND BONE RESPONSE TO METABOLIC ACIDOSIS	RO1AM 10491-02	GMB	15,730
RODRIGUEZ PERALTA, LORENZO A	HISTOLOGIC LOCI OF THE PLACENTAL BARRIER	RO1HD 02040-03	PTHA	19,380
ROSEMOND, GEORGE P	COOPERATIVE LUNG CANCER RADIOTHERAPY PROGRAM	RO1CA 06831-05	RAD	7,005
SELTZER, SAMUEL	BIOLOGIC CONSIDERATIONS IN ENDODONTIC PROCEDURES	RO1DE 02736-01	DEN	23,826
SHERRY, SOL	PLANNING OF CORONARY THROMBOSIS CLINICAL STUDY	RO1HE 12117-01	NSS	16,000
SHERRY, SOL	FIBRINOLYSIS AND RELATED PLASMA PROTEOLYTIC ENZYMES	RO1HE 12148-01	HEM	83,269
SHIMKIN, MICHAEL B	CARCINOGENESIS IN MCA INDUCED RAT BREAST CANCER	RO1CA 07771-05	PTHB	51,703
SHIMKIN, MICHAEL B	CLINICAL CANCER CHEMOTHERAPY SOUTHEASTERN CCNSC GROUP	RO1CA 07961-04	SRC	24,478
SHOCKMAN, GERALD D	BIOSYNTHESIS OF BACTERIAL CELL WALLS AND MEMBRANES	RO1AI 05044-06	MBC	43,694
SHOCKMAN, GERALD D	REGULATION MECHANISMS IN PROTEIN SYNTHESIS	RO1AI 08006-02	MBC	27,918
SPURLOCK, LANGLEY A	RING CLOSURES TO CARBO - AND HETEROCYCLIC ADAMANTANES	RO1AI 08137-01	MCHA	23,069
SPURLOCK, LANGLEY A	2-AZA AND 2,3-DIAZABICYCLO 2,2 1 HEPTYL DERIVATIVES	RO1AI 08138-01	MCHA	18,819
STAHLGREN, LE ROY H	STUDY OF INTESTINAL ABSORPTION AFTER MAJOR RESECTION	RO1AM 11080-01S1	GMA	15,800
STAUFFER, HERBERT M	IMAGE PROCESSING AND ANALYSIS FOR MEDICAL DIAGNOSIS	PO1GM 14548-03	GMP	153,114
STRAILE, WILLIAM E	NEUROPHYSIOLOGY OF THE HAIR FOLLICLE	RO1NB 06887-02	GMA	26,382
SWERN, DANIEL	BIOLOGICALLY-ACTIVE FATTY ACID DERIVATIVES	RO1CA 07803-05	MCHB	50,791
SZEKELY, EMERY G	HIGHER CENTERS AND RETICULAR FORMATION	RO1NB 05316-04	NEUA	32,844
TANSY, MARTIN F	SEROTONIN RELEASE IN THE BOWEL	RO1AM 11372-01	GMA	18,251
TASSONI, ERNEST M	MARROW KARYOTYPES IN MYELOPROLIFERATIVE DISEASES	RO1CA 08314-03	HEM	35,989
TROYER, JOHN R	NEUROSECRETORY MATERIAL IN A HIBERNATOR	RO1AM 05793-07	ENO	15,429
TRUAX, RAYMOND C	COMPARATIVE STUDY OF CARDIAC CONDUCTION SYSTEM	RO1HE 07047-07	CVA	33,776
TUCKER, GABRIEL F, JR	APPLICATION OF A THIRDO DIMENSION IN LARYNGEAL CANCER	RO1CA 10464-01	CMS	35,452
URBACH, FREDERICK	THE BIOLOGIC EFFECTS OF ULTRAVIOLET LIGHT	PO1ES 00269-02	SSS	153,324
WEINHOUSE, SIDNEY	MULTIDISCIPLINARY STUDY OF CARCINOGENESIS	PO1CA 10439-01	SSS	205,534
WEINHOUSE, SIDNEY	METABOLISM OF CARBOHYDRATES AND FATTY ACIDS	RO1AM 05487-07	MET	61,470
WIEDEMAN, MARY P	EXTENT OF NERVOUS CONTROL IN TERMINAL VASCULAR BEDS	RO1HE 02880-13	PHY	10,408
WINTERS, WILLIAM L, JR	CARDIOVASCULAR CLINICAL RESEARCH CENTER	PO2HE 06313-07	HEP	197,834
YAMAMOTO, NOBUTO	GENETIC EVOLUTION OF BACTERIOPHAGE	RO1AI 06429-03	VR	36,397
ZUBRZYCKI, LEONARD J	MACRO - AND MICROHOMOLOGY OF ESCHERICHIA COLI	RO1AI 06581-04	MBC	22,059
ZUBRZYCKI, LEONARD J	ASSOCIATION OF HOST DNA WITH COMPLETE PHAGE GENOME	RO1AI 08128-01	MBC	22,657
INSTITUTION TOTAL	70	2,999,517		
WILLS EYE HOSPITAL				
BARBER, G WINSTON	STUDIES ON LENS METABOLISM	RO1NB 03446-07	VIS	63,761
LAIBSON, PETER R	INVESTIGATION OF RECURRENT HERPETIC KERATITIS	P15NB 06842-03	SSS	9,239
LAIBSON, PETER R	STUDIES ON RECURRENT HERPETIC KERATITIS	RO1NB 06355-03	VIS	15,861
POLLIKOFF, RALPH	STUDIES ON PRIMARY HERPETIC KERATITIS	RO1NB 07013-02	VR	41,595
SERY, THEODORE W	RESPONSE OF CORNEAL STROMA TO INJECTIONS OF PROTEINS	RO1NB 01516-10S1	VIS	3,753
SERY, THEODORE W	RESPONSE OF CORNEAL STROMA TO INJECTIONS OF PROTEINS	RO1NB 01516-11	VIS	39,446
SERY, THEODORE W	UVEAL REACTIONS INDUCED BY EXTRAOCULAR METHODS	RO1NB 02546-09	VIS	30,831
SERY, THEODORE W	GENERAL RESEARCH SUPPORT GRANT	S01FR 05510-05	NSS	20,194
INSTITUTION TOTAL	8	224,680		
WISTAR INSTITUTE OF ANATOMY AND BIOLOGY				
CRISTOFALO, VINCENT J	CARBOHYDRATE METABOLISM AND AGING IN VITRO	RO1HD 02721-02	MBY	44,240
DIAMOND, LELLA	THE EFFECT OF CHEMICAL CARCINOGENS ON CELLS IN VITRO	RO1CA 08936-02	PTHB	55,389
GRAHAM, ANGUS F	STUDY OF HOST-VIRUS RELATIONSHIP	RO1AI 02454-11	MBY	101,712
KOPROWSKI, HILARY	CORE PROGRAM FOR CANCER-ORIENTED RESEARCH	PO1CA 10815-01	SSS	523,542
KOPROWSKI, HILARY	STUDY OF RABIES	RO1AI 02954-09	VR	93,852
KOPROWSKI, HILARY	POSSIBLE ROLE OF VIRUSES IN ETIOLOGY OF CANCER	RO1CA 04534-10	VR	105,246
KOPROWSKI, HILARY	COMMON USE MAJOR EQUIPMENT FACILITY GRANT	RO1CA 10028-02	VR	750
KOPROWSKI, HILARY	CHRONIC NEUROPATHIES INDUCED BY SLOW VIRUSES	RO1NB 06859-02	VR	91,838

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INVESTIGATOR	PROJECT TITLE	GRANT NO	IRG	DOLLARS
PENNSYLVANIA—(CON.)				
KOPROWSKI, HILARY	HETERO SPECIFIC GENOME INTERACTION	R13CA 10734-01	MBY	10,323
KOPROWSKI, HILARY	STUDY OF RABIES VIRUS ANTIGENS	R22AI 07988-02	SSS	51,764
KOPROWSKI, HILARY	GENERAL RESEARCH SUPPORT GRANT	S01FR 05540-06	NSS	137,309
KRITCHEVSKY, DAVID	DIETARY EFFECTS ON CHOLESTEROL METABOLISM	R01HE 03299-11	MET	29,794
KRITCHEVSKY, DAVID	LIPID METABOLISM	R01HE 05209-08	NTN	57,452
MANSON, LIONEL A	ROLE OF TRANSPLANTATION ANTIGENS IN MALIGNANT CELLS	R01CA 07973-04	IMB	47,469
PALM, JOY E	CELLULAR ANTIGENS OF NORMAL AND MALIGNANT RAT TISSUES	R01CA 10097-02	IMB	91,729
ROOSA, ROBERT A	GENETIC TRANSFORMATION OF MAMMALIAN CELLS	R01GM 14514-02	GEN	59,430
ROTHBLAT, GEORGE H	STEROL METABOLISM IN TISSUE CULTURE CELLS	R01HE 09103-04	MBY	39,156
SOKOL, FRANTISEK	REGULATORY PROCESSES IN TUMOR VIRUS-INFECTED CELLS	R01CA 10594-01	VR	52,083
WHITTAKER, J RICHARD	ANALYSIS OF CHEMICAL CHANGES IN PIGMENT CELL CULTURES	R01HD 03459-01	MBY	18,838
INSTITUTION TOTAL	19	1,611,916		
WOMAN'S MEDICAL COLLEGE OF PENNSYLVANIA				
BARR, LLOYD M	ELECTROPHYSIOLOGY OF SMOOTH AND CARDIAC MUSCLE	R01HE 10084-03	PHY	35,140
CARRINGTON, ELSIE R	ADJUVANT UTERINE CANCER CHEMOTHERAPY	R01CA 07417-05	SRC	2,638
CARRINGTON, ELSIE R	LAB INDICES OF HUMAN FETOPLENTAL FUNCTION	R01HD 02042-03	END	20,815
CLENDENIN, THOMAS M	STUDIES OF MAMMALIAN MITOTIC AND MEIOTIC CHROMOSOMES	R01HD 01880-03	HED	11,574
DEWEY, MAYNARD M	THE STRUCTURE AND FUNCTION OF BIOLOGICAL MEMBRANES	R01NB 07199-02	CBY	25,925
DRATMAN, MARY B	THYROID HORMONES IN FETAL AND CHILD DEVELOPMENT	R01HD 02205-03	HEO	30,988
ESKIN, BERNARD A	EFFECT OF IODINE DEFICIENCY ON BREAST DYSPLASIA	R01CA 08615-03	PHRB	24,860
FUSCO, MADELINE M	CENTRAL AND PERIPHERAL FACTORS IN THERMOREGULATION	R01NB 07160-01SI	PHY	5,838
FUSCO, MADELINE M	CENTRAL AND PERIPHERAL FACTORS IN THERMOREGULATION	R01NB 07160-02	PHY	22,947
GOLDMAN, DAVID E	STRUCTURE AND FUNCTION IN PERIPHERAL NERVE	R01NB 07595-01	PHY	95,260
KALDOR, GEORGE J	BIOCHEMICAL STUDIES IN MUSCULAR DYSTROPHY	R01NB 06517-04	NEUB	30,345
KUHNENBECK, HARTWIG	MORPHOLOGIC PATTERN OF VERTEBRATE NEURAXIS	R01NB 04999-05	NEUB	28,261
LEYMASTER, GLEN R	GENERAL RESEARCH SUPPORT GRANT	S01FR 05418-07	NSS	149,404
MASORO, EDWARD J	PHYSIOLOGIC REGULATION OF LIPID METABOLISM	R01AM 09458-04	PC	29,469
RIKER, WILLIAM K	PHARMACOLOGY OF SYNAPTIC TRANSMISSION	R01NB 05693-04	NEUB	30,786
ROSENTHAL, SPENCER	BIOSYNTHESIS OF CELL-WALLS IN GRAM POSITIVE ORGANISMS	R01AI 07211-03	MBC	32,487
SIGEL, BERNARD	A CLINICAL AND ULTRASONIC STUDY OF VENOUS DISEASE	R01HE 11774-01	CVA	44,250
SMITH, WILLIAM K	COOPERATIVE STUDY OF DRUGS AND CORONARY HEART DISEASE	R01HE 10706-03	SRC	33,127
URBACH, JOHN R	COMPUTER LOCATION OF PACEMAKER IN ATRIAL FIBRILLATION	R01HE 08855-04	COM	52,861
VINCENT, NORMA H	ANTIMITOTIC EFFECT OF EPINEPHRINE	R01CA 10339-01	PHRB	12,004
INSTITUTION TOTAL	20	718,979		
ZOOLOGICAL SOCIETY OF PHILADELPHIA				
RAPP, JOHN P	JUXTAGLOMERULAR CONTROL OF SODIUM METABOLISM	R01AM 08746-04	GMB	45,930
RAPP, JOHN P	BIOCHEMICAL PROBLEMS WITH ALDOSTERONE AND DOC	R01HE 11293-02	GMB	26,135
RATCLIFFE, HERBERT L	CORONARY DISEASE AND INTRASPECIFIC COMPETITION	R01HE 01979-13	PTHA	60,562
INSTITUTION TOTAL	3	132,627		
PITTSBURGH				
ALLEGHENY GENERAL HOSPITAL				
BRAVERMAN, MAXWELL H	COMPUTOR SIMULATION OF HYDROID COLONIES	R01GM 13708-03	COM	20,784
CONCANNON, JOSEPH P	CLINICAL RADIATION THERAPY RESEARCH CENTER	P02CA 10438-02	SSS	321,905
STRICKLER, HERBERT S	FETAL HEALTH EVALUATION BY AUTOMATED STEROID ANALYSIS	R01HD 01350-04	END	16,383
INSTITUTION TOTAL	3	359,072		
AMERICAN INSTITUTES FOR RESEARCH IN THE BEHAVIORAL SCIENCES				
BAXTER, BRENT	GENERAL RESEARCH SUPPORT GRANT	S01FR 05615-01	NSS	87,166
INSTITUTION TOTAL	1	87,166		
CARNEGIE-MELLON UNIVERSITY				
ALEXANDER, LEROY E	CRYSTAL STRUCTURE OF MODEL COMPOUNDS OF HIGH POLYMERS	R01GM 12396-04	BBCA	29,432
BUCKER, STANLEY	RETINAL SODIUM FLUXES AFTER LIGHT STIMULATION	R01NB 06746-02	VIS	26,853
BUGLIARELLO, GEORGE	HYDRODYNAMIC CHARACTERISTICS OF THE ERYTHROCYTE	R01HE 05557-08	CVB	30,019
GRUNDMANN, CHRISTOPH J	NITRILE OXIDES AS ALKYLATING AGENTS	R01CA 07272-05	MCHB	23,929
GRUNDMANN, CHRISTOPH J	NITRILE OXIDES AS ORGANIC REAGENTS	R01CA 10747-02	MCHB	24,724
KURLAND, ROBERT J	CARBON-13 NMR STUDY OF TRIPHENYLCARBONIUM IONS	R01GM 14188-02	BBCB	13,496
MUELLER, HELMUT	BIOCHEMISTRY OF CONTRACTILE PROTEINS	R01HE 09544-04	BIO	29,258
POPLE, JOHN A	QUANTUM MECHANICAL STUDIES IN BIOCHEMISTRY	R01GM 13905-03	BBCB	33,110
RICE, ROBERT V	BIOPHYSICAL STUDIES ON FIBROUS PROTEINS	R01AM 02809-10	BBCB	77,456
SCHATZ, EDWARD R	BIOMEDICAL SCIENCES SUPPORT GRANT	S05FR 07081-03	NSS	63,922
SOUTHWICK, PHILIP L	SYNTHESIS OF PYRROLIDINE DERIVATIVES	R01GM 04371-13	MCHB	36,396
INSTITUTION TOTAL	11	388,595		
CHILDREN'S HOSPITAL OF PITTSBURGH				
ALBO, VINCENT C	CHILDORENS CANCER STUDY GROUP A	R10CA 07439-05	SRC	32,372
FETTERMAN, GEORGE H	A STUDY OF IMMATURE KIDNEYS BY MICRODISSECTION	R01HD 00659-09	PTHA	24,451
FIREMAN, PHILIP	MECHANISMS OF HYPERSENSITIVITY	R01HD 02662-02	ALY	12,070
GITLIN, DAVID	PLASMA AND CELL PROTEIN METABOLISM	R01HD 00652-05	MET	32,940
GITLIN, DAVID	THE MATERNOFETAL BARRIER AND FETAL METABOLISM	R01HD 01031-04	ALY	25,200
GITLIN, DAVID	ACTIVATION OF PROTEIN TRACERS IN NEONATES	R01HD 01034-04	ALY	13,541
KENNY, FREDERIC M	ADRENOCORTICAL FUNCTION DURING GROWTH AND DEVELOPMENT	R01HD 03195-01A1	END	22,292

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INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRG	DOLLARS
PENNSYLVANIA—(CON.)				
KIESEWETTER, WILLIAM B	EFFECT OF CRYPTORCHIDISM AND HORMONES ON THE TESTIS	RO1HD 01780-03	END	7,737
MEDEARIS, DONALD N JR	GENERAL CLINICAL RESEARCH CENTER - CHILDREN	MO1FR 00084-06	CLR	160,259
MEDEARIS, DONALD N, JR	PATHOGENESIS OF INFECTION IN IMMATURE ANIMALS	RO1HD 02135-04	BM	59,874
MEDEARIS, DONALD N, JR	GENERAL RESEARCH SUPPORT GRANT	SO1FR 05507-06	NSS	55,263
MICHAELS, RICHARD H	IMMUNE MECHANISMS IN RUBELLA VIRUS INFECTION	RO1HD 02736-02	VR	11,312
MICHAELS, RICHARD H	DEVELOPMENTAL ASPECTS OF LOCAL IMMUNITY	RO1HD 02866-02	ALY	35,932
INSTITUTION TOTAL 13	493,243			
DUQUESNE UNIVERSITY				
EHRlich, HOWARD G	ELECTRON MICROSCOPY OF PLANT PARASITISM	RO1AI 06378-04	BM	21,768
GAWRON, OSCAR	STEREOCHEMISTRY OF THE FUMARASE SYSTEM	RO1GM 06245-09S1	PC	624
GAWRON, OSCAR	STEREOCHEMISTRY OF THE FUMARASE SYSTEM	RO1GM 06245-10	PC	50,640
GILLIS, BERNARD T	OXIDATION OF HYDRAZONES	RO1AI 02923-09	MCHA	8,694
LI, NORMAN C	NUCLEAR MAGNETIC RESONANCE IN BIOPHYSICS	RO1GM 10539-06	BBCB	19,756
RILEY, GENE A	MECHANISM OF ACTION OF ADENOSINE 3,5- PHOSPHATE	RO1AM 11318-03	BIO	12,312
INSTITUTION TOTAL 6	113,794			
MAGEE-WOMEN'S HOSPITAL				
CHEZ, RONALD A	IN VITRO STUDY OF EPITHELIAL MEMBRANES IN PREGNANCY	RO1HD 03155-01	HED	29,167
HAYASHI, TERRY	STUDIES ON PLACENTAL METABOLISM	RO1HD 01890-04	REB	28,235
HUTCHINSON, DONALD L	CHANGES IN AMNIOTIC FLUID COMPOSITION AND VOLUME	RO1HD 01403-03	HED	23,917
HUTCHINSON, DONALD L	GENERAL RESEARCH SUPPORT GRANT	SO1FR 05570-04	NSS	30,198
TAYLOR, PAUL M	HYPOXEMIA, ACIDEMIA AND CAPILLARY PERMEABILITY	RO1HD 02704-02	CVB	21,847
ZANGWILL, DONALD P	BACTERIURIA PREMATURITY AND IMMUNITY IN PREGNANCY	RO1HD 00815-04	HED	11,316
INSTITUTION TOTAL 6	144,680			
MONTEFIORE HOSPITAL				
TROEN, PHILIP	HCG AND STEROIDS BIOSYNTHESIS AND METABOLISM	RO1AM 08375-04S1	REB	18,202
INSTITUTION TOTAL 1	18,202			
MOUNT MERCY COLLEGE				
KREKE, CORNELIUS W	PROTEIN AND METAL BINDING IN NEUROLOGICAL DISEASES	RO1NB 04902-10	BBCB	7,703
INSTITUTION TOTAL 1	7,703			
MPC CORPORATION				
GRIFFIN, CLAIBOURNE E	NMR FACILITY FOR BIOMEDICAL STUDIES	P07FR 00292-03	BBCB	50,763
INSTITUTION TOTAL 1	50,763			
PITTSBURGH UNIVERSITY OF				
ABRAHAM, DONALD J	STRUCTURE ELUCIDATION & CHEMISTRY OF VINCA ALKALOIDS	RO1CA 08509-03	PHRA	17,621
ABRAMS, RICHARD	MASS SPECTROMETRIC FACILITY FOR BIOMEDICAL RESEARCH	P07FR 00273-03	MCHA	22,066
ABRAMS, RICHARD	CONTROL FACTORS FOR DNA SYNTHESIS	RO1CA 08395-03	BIO	37,382
AXELROD, A E	METABOLIC REACTIONS & IMMUNOLOGICAL PHENOMENA OF SKIN	RO1AM 00727-14	ALY	53,511
BASFORD, ROBERT E	ENERGY METABOLISM OF BRAIN	RO1NB 01984-08S2	PC	3,112
BASFORD, ROBERT E	ENERGY METABOLISM OF BRAIN	RO1NB 01984-10	PC	34,293
BATES, MARGARET W	METABOLISM OF PLASMA TRIGLYCERIDES	RO1AM 02564-10	MET	14,979
BEATTIE, DIANA S	SYNTHESIS OF MITOCHONDRIAL PROTEIN	RO1HD 02361-02	PC	24,776
BENTLEY, RONALD	BIOCHEMICAL C-METHYLATION OF AROMATIC COMPOUNDS	RO1AM 09311-04	PC	39,184
BENTLEY, RONALD	BIOSYNTHESIS AND UTILIZATION OF AROMATIC COMPOUNDS	RO1GM 08477-08	PC	36,968
BIANCULLI, JOSEPH A	GENERAL RESEARCH SUPPORT GRANT	SO1FR 05455-06	NSS	48,960
BILGER, ROBERT C	AUDITORY DYSFUNCTION THE COCHLEA	P15NB 07790-01	NBPB	73,467
BILGER, ROBERT C	FREQUENCY RESOLUTION IN NORMAL AND IMPAIRED HEARING	RO1NB 03032-08	CMS	23,103
BILGER, ROBERT C	AUDITORY FUNCTION IN PATHOLOGIES	RO1NB 04105-06	CMS	35,813
BLOMSTER, RALPH N	ISOLATION OF ANTITUMOR SUBSTANCES FROM PLANTS	RO1CA 10850-10	MCHB	31,497
BOGNER, PHILLIS H	DEVELOPMENT OF INTESTINAL ABSORPTION MECHANISMS	RO1AM 02353-10	NTN	18,778
BORLE, ANDRE B	PARATHORMONE EFFECT ON MEMBRANE STRUCTURE AND FUNCTION	RO1AM 07867-05	GMB	36,139
BOUDREAU, JAMES C	INFORMATION PROCESSING IN THE AUDITORY SYSTEM	RO1NB 06547-03	CMS	18,326
BRAUDE, ABRAHAM I	EXPERIMENTAL PYELONEPHRITIS	RO1HE 03220-12	PTHA	31,355
BRIGGS, F NORMAN	THE NATURE AND FUNCTION OF MARSH FACTOR	RO1HE 06782-07	PHY	44,647
BRINTON, CHARLES C, JR	GENETICS, STRUCTURE, AND FUNCTION OF BACTERIAL PILI	RO1AI 03242-09	GEN	81,997
BUCKLEY, JOSEPH P	PROGRAM PROJECT IN PHARMACODYNAMICS AND TOXICOLOGY	P11GM 15587-02	PTR	144,276
BUCKLEY, JOSEPH P	MECHANISM OF ACTION OF ANTIHYPERTENSIVE COMPOUNDS	RO1HE 03475-09S1	PHRA	9,540
CAIROLI, VINCENT J	EFFECTS OF THYROXIN ON CARDIAC PACEMAKERS	RO1HE 11490-01	PHRA	20,211
CARTER, JAMES C	SYNTHESIS OF BORANO ACID DERIVATIVES	RO1CA 08222-03	MCHB	23,280
CAUNA, NIKOLAJS	FINE STRUCTURE AND CHEMISTRY OF NERVE ENDINGS	RO1NB 04147-06	PTHA	17,807
CHANNING, CORNELIA P	THE MECHANISM OF LUTEINIZATION IN PRIMATES	RO1HD 03315-01	REB	22,755
CHEEVER, F S	GENERAL RESEARCH SUPPORT GRANT	SO1FR 05416-07	NSS	292,894
CHUNG, ALBERT E	ENZYMOLGY AND METABOLISM OF CYCLOPROPANE FATTY ACIDS	RO1AI 08273-01	PC	15,813
CHUNG, ALBERT E	REGULATION OF COENZYME LEVELS IN BIOLOGICAL SYSTEMS	RO1AM 12104-01	PC	52,724
CIOTTO, ANTONIO	GENERAL RESEARCH SUPPORT GRANT	SO1FR 05451-07	NSS	202,228
COHEN, THEODORE	STEROID SYSTEM NUCLEOPHILIC REACTIONS	RO1AM 06419-05	MCHA	16,422
CONNAMACHER, ROBERT H	STUDY OF A PHENOTYPIC RESISTANCE TO TETRACYCLINE	RO1AI 08192-01	PHRB	23,651
CORNFIELD, JEROME	RESEARCH IN MULTIPARAMETER ESTIMATION AND APPLICATIONS	RO1GM 15004-01	SSS	36,113
CRAVEN, BRYAN M	STRUCTURAL STUDIES ON BARBITURATES	RO1NB 02763-08	BBCB	34,644
DANISHEFSKY, SAMUEL J	SYNTHESIS OF STEROIDS, CAMPTOTHECIN AND EREMOPHILONE	RO1AM 08696-04	MCHA	24,560

TABLE 2—RESEARCH GRANTS, BY AREA, INSTITUTION, AND PRINCIPAL INVESTIGATOR

INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRG	DOLLARS
PENNSYLVANIA—(CON.)				
DAVIS, BERNARD B. JR.	PROXIMAL TRANSTUBULE NA GRADIENT IN MANNITOL DIURESIS	RO1AM 11911-01	GMB	35,329
DE GROAT, WILLIAM C.	NERVOUS CONTROL OF URINARY BLADDER AND LARGE BOWEL	RO1NB 07923-01	NEUB	36,920
DOUGLAS, BODIE E.	STUDIES OF OPTICALLY ACTIVE COORDINATION COMPOUNDS	RO1GM 10829-10	BBCA	44,905
DRAPANAS, THEODORE	METABOLIC RESPONSES TO SURGERY OF THE LIVER	RO1AM 09159-04	GM	37,455
DRAUS, FRANK J.	COMPARATIVE STUDIES OF SALIVARY MUCOIDS	RO1AM 05338-07	DEN	23,554
DRAUS, FRANK J.	RADIOGRAPHIC AND HISTOLOGICAL ANALYSIS OF CALCULUS	RO1DE 01588-07	DEN	22,432
EDMONDS, MARY P.	NUCLEOTIDE HOMOPOLYMER SYNTHESIS IN MAMMALIAN CELLS	RO1AM 10074-03	BIO	27,543
EICHENHOLZ, ALFRED	HOMEOSTASIS AND PATHOLOGY OF ACID-BASE BALANCE	RO1HE 11650-02	CVB	31,158
EICHHORN, JOHN H.	HORMONES AND TRANSPORT PROCESSES IN ORAL TISSUES	RO1DE 02244-03S1	DEN	979
EPSTEIN, SHELDON M.	THE ROLE OF THE HYPERPLASTIC LIVER NODULE IN CARCINOGEN	RO1CA 10667-01	PTHB	18,164
FARBER, EMMANUEL	CHEMICAL PATHOLOGY OF LESIONS PRODUCED BY ETHIONINE	RO1AM 05590-07	NTN	42,348
FARBER, EMMANUEL	HISTOCHEMICAL LOCALIZATION OF OXIDATIVE ENZYMES	RO1AM 05644-07	PTHA	34,920
FARBER, EMMANUEL	METABOLISM DURING LIVER CARCINOGENESIS	RO1CA 06074-07	MBY	37,670
FARBER, EMMANUEL	STUDIES ON BASIC REACTION PATTERNS IN PATHOLOGY	RO1GM 10269-06	PTHB	49,449
FARNSWORTH, NORMAN R.	ISOLATION OF ANTINEOPLASTIC ALKALOIDS FROM PLANTS	RO1CA 08228-04	MCHBR	45,556
FEINGOLD, DAVID S.	POLYSACCHARIDE SYNTHESIS BY MICROORGANISMS	RO1GM 08820-07	MBC	43,002
FIELD, JAMES B.	EFFECTS OF TSH ON THYROID CARBOHYDRATE METABOLISM	RO1AM 06865-06	MET	55,530
FIELD, JAMES B.	STUDIES IN GLYCOGEN STORAGE DISEASE	RO1AM 08333-04S1	MET	667
FIELD, JAMES B.	STUDIES IN GLYCOGEN STORAGE DISEASES	RO1AM 08333-05	MET	15,257
FINCK, HENRY	CYTOCHEMICAL STUDIES OF NUCLEIC ACIDS AND PROTEINS	RO1GM 07896-08	CBY	13,236
FISHER, BERNARD	STUDIES IN HOMOTRANSPLANTATION	RO1AI 08206-11	PTHA	32,750
FISHER, BERNARD	EFFECT OF ARTERIALIZATION AND OF SHUNT UPON THE LIVER	RO1AM 00369-16	SCYB	17,412
FISHER, BERNARD	STUDY OF HUMORAL FACTORS IN LIVER REGENERATION	RO1AM 04651-07S1	GMA	4,945
FISHER, BERNARD	STUDIES OF THE DORMANT TUMOR CELL	RO1CA 05716-08	PTHB	39,895
FISHER, BERNARD	ANTICOAGULANTS, CHEMOTHERAPY AND TUMOR METASTASES	RO1CA 05949-07	PHRB	29,293
FISHER, BERNARD	THE LYMPHATIC SYSTEM IN CANCER DISSEMINATION	RO1CA 10112-01A1	PTHB	38,811
FORREST, EDWARD J.	INTER-DISCIPLINARY STUDIES IN CLEFT PALATE	PO1DE 01697-06	DEP	389,135
FORREST, EDWARD J.	GENERAL RESEARCH SUPPORT GRANT	SO1FR 05338-07	NSS	84,580
FROMM, GERHARD H.	EFFECT OF ANTI CONVULSANTS ON THE TRIGEMINAL NUCLEUS	RO1NB 08389-01	NEUB	8,501
FROMM, GERHARD H.	NEURON ACTIVITY AND CORTICAL STEADY POTENTIALS	RO1NB 08390-01	NEUB	9,484
FUCHS, FRANKLIN	ANALYSIS OF CELLULAR CA COMPARTMENTS IN MUSCLE	RO1AM 10551-03	PHY	22,206
GALLA, STEPHEN J.	EFFECTS OF ANESTHESIA ON INTERMEDIARY METABOLISM	RO1GM 13965-02	MET	30,242
GIBSON, ROBERT H.	COMMUNICATION BY ELECTRICAL STIMULATION OF THE SKIN	RO1NB 06304-04	CMS	31,972
GILBERTSON, JOHN R.	A-GLYCEROL ETHERS IN HEART AND ADIPOSE TISSUE	RO1HE 08642-04S1	MET	4,005
GILBERTSON, JOHN R.	A-GLYCEROL ETHERS IN HEART AND ADIPOSE TISSUE	RO1HE 08642-05	MET	35,945
GOLOBLATT, PETER J.	ULTRASTRUCTURE OF IMMUNOLOGICALLY RESPONSIVE CELLS	RO1AI 07725-02	ALY	12,689
GOLOBLATT, PETER J.	PATHOLOGY OF THE NUCLEOLUS IN EXPERIMENTAL CARCINOGENE	RO1CA 10686-01	PTHB	36,600
GRIFFIN, CLAIBOURNE E.	PHOTOCHEMISTRY OF IUDR AND RELATED STRUCTURES	RO1CA 08513-03	MCHA	17,659
GRIFFIN, CLAIBOURNE E.	RING JUNCTION AZAPOLYCYCLICS AND AZASTEROIDS	RO1GM 13920-03	MCHA	20,954
HA, HONGCHIEH	ORGANIZATION OF THE LATERAL CERVICAL NUCLEUS	RO1NB 06074-03	NEUA	12,607
HALLIDAY, DAVID	BIOMEDICAL SCIENCES SUPPORT	SO5FR 07084-03	NSS	74,864
HAMMON, WILLIAM M.	ARBOVIRUS DISEASES OF THE FAR EAST AND FLORIDA	RO1AI 02686-10	VR	42,179
HAMMON, WILLIAM MC D.	POSSIBLE VIRAL ETIOLOGY OF HUMAN CANCER	RO1CA 04574-10	VR	90,403
HAMMON, WILLIAM MCD	DEVELOPMENT OF JAPANESE B ENCEPHALITIS VIRUS VACCINES	R22AI 07989-02	SSS	50,714
HAYES, RAYMOND L.	ACTION OF STEROIDS ON EMBRYONIC CELL MEMBRANES	RO1HD 03216-01	MBY	11,250
HELLSTROM, HAROLD R.	MYOCARDIAL INFARCT AS A CAUSE OF CORONARY OCCLUSION	RO1HE 11835-01	CVA	6,236
HO, CHIEN	PHYSICAL-CHEMICAL STUDY OF BOVINE CASEIN INTERACTIONS	RO1AM 09763-03	BBCB	29,601
HO, CHIEN	PHYSICAL-CHEMICAL STUDIES OF HEMOGLOBINS	RO1HE 10383-03	BBCA	11,000
HO, MONTO	CELL IMMUNITY NATURAL INHIBITORS OF VIRAL ACTIVITY	RO1AI 02953-08S1	VR	38,184
HO, MONTO	CELL IMMUNITY NATURAL INHIBITORS OF VIRAL ACTIVITY	RO1AI 02953-09A1	VR	70,419
HOFFEE, PATRICIA A.	FUNCTION AND MECHANISM OF ACTION OF DR5P ALDOLASE	RO1AM 12152-01	BIO	55,618
HOFMANN, KLAUS	STUDY OF PEPTIDES POSSESSING BIOLOGICAL ACTIVITY	RO1AM 01128-11S1	PC	7,402
HOFMANN, KLAUS	STUDY OF PEPTIDES POSSESSING BIOLOGICAL ACTIVITY	RO1AM 01128-12	PC	119,160
HOLLINGSWORTH, CHARLES A.	FLOW BIREFRINGENCE OF SUSPENSIONS OF RIGID PARTICLES	RO1GM 10932-06	BBCB	11,999
JEFFREY, GEORGE A.	PROGRAMMING FOR BIOCHEMICAL STRUCTURE DETERMINATION	RO1GM 05412-10	BBC	44,942
JEFFREY, GEORGE A.	CRYSTAL STRUCTURAL STUDIES IN CARBOHYDRATE CHEMISTRY	RO1GM 11293-05	BBCB	52,243
KALSER, SARAH C.	EFFECT OF HYPOTHERMIA ON DRUG METABOLISM	RO1AM 07702-05	PHRA	17,340
KENT, ALLEN	NOTATION STUDIES ON PYRIMIDINE DERIVATIVES	RO1GM 11987-03S1	BBCB	1,666
KNOBIL, ERNST	PRIMATE RESOURCE FOR STUDIES IN REPRODUCTIVE PHYSIOLOGY	PO6FR 00298-03	PME	131,980
KNOBIL, ERNST	REPRODUCTIVE PHYSIOLOGY IN THE MACAQUE	RO1AM 05654-08	HED	41,575
KNOBIL, ERNST	STUDIES ON THE PHYSIOLOGY OF GROWTH HORMONE	RO1AM 05655-08	END	48,573
KORITZ, SEYMOUR B.	ADRENAL METABOLISM POSSIBLY RELATED TO ACTH ACTION	RO1AM 03676-09	END	22,661
KOROS, AURELIA	REGULATION OF DNA SYNTHESIS IN ANTIBODY-PRODUCING CELLS	RO1AI 07170-03	ALY	27,249
KOROS, AURELIA M.	REGULATION OF DNA SYNTHESIS IN ANTIBODY-PRODUCING CELLS	RO1AI 07170-02S1	ALY	8,839
LAMY, FRANCOIS	ELASTASE AND ELASTIN	RO1HE 02975-12	BBCB	23,986
LANSING, ALBERT I.	EXPERIMENTAL CYTOLOGY OF AGING CELLS AND TISSUES	RO1HD 02741-07	HDP	57,005
LASSER, ELLIOTT C.	THE TISSUE PARTITIONS AND TOXICITY OF CONTRAST MEDIA	RO1AM 05414-06S1	RAD	15,477
LASSER, ELLIOTT C.	THE TISSUE PARTITIONS AND TOXICITY OF CONTRAST MEDIA	RO1GM 15630-07	RAD	51,884
LASSER, ELLIOTT C.	BIOPHYSICAL STUDIES ON VIRAL STRUCTURE AND FUNCTION	PO1GM 10403-06	GMP	156,424
LAUFFER, MAX A.	ELECTRON MICROSCOPY OF GAUCHERS DISEASE	RO1AM 10809-02	PTHA	18,714
LEE, ROBERT E.	CHEMOTHERAPEUTIC BIOASSAY OF HUMAN CANCER IN VITRO	RO1CA 10412-01	PHRB	24,549
LEIGHTON, JOSEPH	BLOOD COAGULATION AND HEMORRHAGIC DISEASE	RO1HE 02254-13	HEM	69,086
LEWIS, JESSICA H.	PLATELET LIFESPAN AND PLATELET TRANSFUSIONS	RO1HE 03036-10S1	HEM	11,830

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INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRG	DOLLARS
PENNSYLVANIA—(CON.)				
LIEBERMAN, IRVING	MECHANISMS OF CONTROL OF MAMMALIAN CELL MULTIPLICATION	RO1CA 06663-07	MBY	80,995
LOMBARDI, BENITO	PATHOGENESIS OF EXPERIMENTAL FATTY LIVERS	RO1AM 06334-06	MET	31,860
MAGOVERN, GEORGE J	TESTING OF CLOT RESISTANT VALVULAR PROSTHESES	RO1HE 11138-02	SGYA	22,358
MAST, TRUMAN E	CONTRALATERAL STIMULATION OF COCHLEAR NUCLEUS	RO1NB 07829-01	CMS	26,213
MC BURNEY, DONALD H	A PSYCHOPHYSICAL STUDY OF GUSTATORY ADAPTATION	RO1NB 07873-01	EXP	25,224
MC DONALD, ROBERT H, JR	INOTROPIC ALTERATION OF MYOCARDIAL ENERGETICS	RO1HE 10947-02	CVA	26,627
MC LAIN, PAUL L	NERVOUS COMPONENT IN DIGITALIS PHARMACOLOGY	RO1HE 08059-05	PHRA	9,251
MC MANUS, IVY R	THE A-KETOGLUTARATE DEHYDROGENATION COMPLEX	RO1AM 11147-02	PC	23,460
MC MANUS, IVY ROSABELLE	METABOLIC ORIGIN OF ENDOGENOUS ETHANOL	RO1AM 02914-10	BIO	13,898
MINTZ, DANIEL H	GROWTH HORMONE SECRETION RATES	RO1AM 10949-02	END	23,309
MOLDAVE, KIVIE	MECHANISM OF PROTEIN BIOSYNTHESIS	RO1AM 11032-02	BIO	38,273
MURDOUGH, HERSCHEL V	STUDY OF EXCRETION OF TRACE METALS	RO1AM 10417-03	GMA	19,423
MYERS, JACK D	GENERAL CLINICAL RESEARCH CENTER	MO1FR 00056-07	CLR	274,602
NAKADA, DAISUKE	RIBOSOME FORMATION AND RIBOSOMAL FUNCTION	RO1AM 12096-01	BIO	69,702
PHILLIPS, BRUCE A	STRUCTURE AND ASSEMBLY OF VIRAL CAPSIDS	RO1AI 08368-01	VR	33,889
PREUSS, HARRY G	THE OXIDATIVE METABOLISM OF GLUTAMINE BY THE KIDNEY	RO1AM 11525-02	GMB	19,655
RALPH, CHARLES L	NEURAL CONTROL OF FROG MSH	RO1AM 11684-01	END	14,227
REDGATE, EDWARD S	NEURAL CONTROL OF ACTH RELEASE	RO1NB 04095-07S1	NEUA	17,672
ROBERTS, JAY	PHARMACOLOGY OF GENESIS OF CARDIAC RHYTHMICITY	RO1HE 10916-03	PHRA	32,783
ROBIN, EUGENE D	STUDIES OF CEREBRAL FUNCTION AND PULMONARY FUNCTION	RO1HE 05059-08S1	CVB	41,848
SALVIN, SAMUEL B	TUBERCULIN HYPERSENSITIVITY AND CELLULAR IMMUNITY	R22AI 08528-01	SSS	67,852
SANDLER, RIVKA B	NEUROHUMORS IN THE HYPOTHALAMUS	RO1AM 11185-02	ENO	12,472
SAX, MARTIN	CRYSTAL STRUCTURAL STUDIES OF THE PHOSPHOLIPIDS	RO1HE 09068-03S1	BBCB	2,400
SAX, MARTIN	BIOCHEMICAL MONO AND POLYPHOSPHATE CRYSTAL STRUCTURES	RO1HE 09068-04	BBCB	29,849
SCHUEVER, JAMES	MYOCARDIAL ISCHEMIA EKG AND METABOLIC CORRELATES	RO1HE 09727-03S1	CVA	2,206
SCHULTZ, STANLEY G	STUDIES ON INTESTINAL TRANSPORT	RO1AM 11449-01	PHY	22,175
SELL, STEWART	STUDIES ON RABBIT LYMPHOCYTES IN VITRO	RO1AI 07125-03	ALY	15,534
SELL, STEWART	IMMUNOGLOBULIN CLASSES OF ANTIBODY FORMING CELLS	RO1AI 07712-02	ALY	16,038
SHAPIRO, ALVIN P	PSYCHOPHYSIOLOGIC MECHANISMS IN HYPERTENSIVE DISEASE	RO1HE 05711-08	CVA	30,789
SHULL, KENNETH H	METABOLISM OF ATP IN ETHIONINE-TREATED RATS	RO1AM 06541-06	MET	20,253
SIDRANSKY, HERSCHEL	PATHOGENESIS OF PULMONARY ASPERGILLOSIS	RO1AI 05519-05	BM	21,776
SIDRANSKY, HERSCHEL	CHEMICAL PATHOLOGY OF AMINO ACID DEFICIENCIES	RO1AM 05908-07	NTN	28,471
SIDRANSKY, HERSCHEL	STUDIES ON HISTOGENESIS OF LIVER CANCER	RO1CA 07465-05	PTHB	24,668
STEMKE, GERALD W	ALLOTYPY OF RABBIT GAMMA-GLOBULIN	RO1AI 06991-03	ALY	44,259
STERNGLASS, ERNEST J	DEVELOPMENT AND EVALUATION OF ELECTRONIC RADIOGRAPHY	RO1GM 15805-01	RAD	135,887
SWEETLEY, CHARLES C	CHEMISTRY AND METABOLISM OF MAMMALIAN SPHINGOLIPIDS	RO1AM 04307-08	PC	30,648
SZULMAN, ARON, E	BLOOD GROUP SUBSTANCES IN HUMAN TISSUES	RO1AI 06443-04	ALY	28,927
TAULBEE, ORRIN E	A COMPUTER FACILITY FOR RESEARCH IN THE LIFE SCIENCES	P07FR 00250-03	COM	29,630
TONG, WINTON	METABOLISM AND ENDOCRINE FUNCTION IN THE THYROID	RO1AM 06439-06	END	74,125
Tsuchitani, CHIYOKO	SINGLE UNIT ANALYSIS OF THE SUPERIOR OLIVARY COMPLEX	RO1NB 07212-02	NEUA	32,275
URQUHART, JOHN	ADRENOCORTICAL HORMONE DISTRIBUTION TO TARGET TISSUES	RO1GM 14637-05	END	44,327
URQUHART, JOHN	ARTERIAL PRESSURE REGULATION DURING CONSCIOUSNESS	RO1HE 10763-02	CVA	17,063
VINCENT, WALTER S	STUDIES ON NUCLEOLI RIBOSOME RELATIONSHIPS	RO1GM 11480-05	MBY	34,566
VOSS, JAMES F	PROBABILISTIC VERBAL LEARNING	RO1HD 00957-06	EXP	36,018
WALD, NIEL	CYTOGENETICS OF POST-IRRADIATION AND VIRAL LEUKEMIA	RO1CA 08466-02S1	RAD	3,736
WALD, NIEL	CYTOGENETICS OF POST-IRRADIATION AND VIRAL LEUKEMIA	RO1CA 08466-03	RAD	34,967
WALD, NIEL	A BIOMECHANICAL IMAGE PROCESSING PROGRAM	RO1GM 15247-02	COM	367,017
WESTERMAN, MAXWELL P	STUDIES OF ERYTHROPOIESIS	RO1HE 06270-07	HEM	15,093
WHITSEL, BARRY L	CORTICAL COLUMNAR ORGANIZATION STATIC AND DYNAMIC	RO1NB 07712-01	NEUA	23,335
WILDE, RALPH C	COOPERATIVE STUDY OF BREAST CANCER THERAPY	R10CA 03356-11	SRC	24,628
WOLFE, HARVEY	FACTORS AFFECTING QUALITY OF NURSING CARE	R21NU 00192-02	NR	24,933
YOUNGNER, JULIUS S	STUDIES OF CELLULAR RESISTANCE TO VIRUS INFECTIONS	RO1AI 06264-04	VR	51,922
INSTITUTION TOTAL	161	6,798,811		
WESTERN PENNSYLVANIA HOSPITAL				
JENA, MILTON	PROTEOLYTIC ACTIVITY OF NORMAL AND CANCER SERA	RO1CA 06345-08	MET	35,416
INSTITUTION TOTAL	1	35,416		
SAYRE				
DONALD GUTHRIE FOUNDATION FOR MEDICAL RESEARCH				
SEWELL, WILLIAM H	TRIPLE MAMMARY PEDICLE FOR CORONARY ISUFFICIENCY	RO1HE 11318-01S1	SGYB	588
SEWELL, WILLIAM H	TRIPLE MAMMARY PEDICLE FOR CORONARY INSUFFICIENCY	RO1HE 11318-02	SGYB	16,391
INSTITUTION TOTAL	2	16,979		
UNIVERSITY PARK				
PENNSYLVANIA STATE UNIVERSITY				
ALLCOCK, HARRY R	POLY-DIAMINOPHOSPHAZENES	RO1HE 11418-01	MCHB	25,568
AMANN, RUPERT P	PHYSIOLOGY OF THE RABBIT TESTIS AND EPIDIDYMS	RO1HD 01356-04	REB	15,679
BAUMGARDT, B R	REGULATION OF FOOD INTAKE IN THE RUMINANT	RO1AM 12023-01	NTN	41,130
BELLIS, EDWARD D	BEHAVIOR FAT DEPOSITION AND HIBERNATION	RO1HE 06262-07	PHY	11,013
BENKOVIC, STEPHEN J	PHOSPHATE ACTIVATION MECHANISMS	RO1GM 13306-03	BIO	24,696
BERNHEIM, ROBERT A	SPIN-SPIN COUPLING IN NUCLEAR MAGNETIC RESONANCE	RO1GM 10274-05S1	BBCB	1,305
BUSKIRK, ELSWORTH R	OBESITY AND PHYSIOLOGICAL RESPONSE TO ENVIRONMENT	RO1AM 08311-04	AFY	58,181

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INVESTIGATOR	PROJECT TITLE	GRANT NO	IRG	DOLLARS
PENNSYLVANIA—(CON.)				
BUSS, EDWARD G	INFLUENCE OF A MUTANT GENE ON RIBOFLAVIN METABOLISM	RO1GM 07830-08	GEN	28,336
COX, DENNIS H	MATERNAL MINERAL METABOLISM AND FETAL DEVELOPMENT	RO1HD 02103-03	NTN	10,748
DAVIDS, NORMAN	ANALYSIS OF STRESS IN PULSATILE DYNAMICS	RO1HE 11289-02	CVA	27,628
DI VESTA, FRANCIS J	SYMBOLIC PROCESSES IN CHILDRENS BEHAVIOR	RO1HD 02025-03	DBR	16,796
DUNNE, HOWARD W	EMBRYONIC DEATH AND INFERTILITY DUE TO ENTEROVIRUSES	RO1HD 02565-03	VR	36,005
FLIPSE, ROBERT J	AMINO ACID METABOLISM BY SPERMATOZOA	RO1HD 00039-05	MET	24,640
HALE, EDGAR B	BIOMEDICAL SCIENCES SUPPORT	S05FR 07082-03	NSS	78,277
JORDAN, JOSEPH	ELECTRON TRANSFER KINETICS AND MECHANISMS	RO1HE 02342-12	BBCB	31,754
KARAKAWA, WALTER W	IMMUNOCHEMISTRY OF STAPHYLOCOCCAL MUCOPEPTIDE	RO1AI 08015-01	ALY	24,401
MC CARL, RICHARD L	LIPID METABOLISM AND FUNCTION IN TISSUE CULTURE CELLS	RO1HE 10018-03	MET	13,440
MORRIS, MICHAEL D	ORGANOTIN REAGENTS FOR FLUORIDE ANALYSIS	RO1DH 00101-02	MCHB	10,515
MUELLER, ERWIN W	FIELD ION MICROSCOPY OF BIOLOGICAL MOLECULES	RO1GM 12286-04	BBCA	24,105
MUELLER, WERNER J	SKELETAL METABOLISM OF AVIAN SPECIES	RO1AM 04362-07	GMB	31,433
MUMMA, RALPH D	LIPID METABOLISM AND FUNCTION	RO1AM 08481-05	PC	22,492
OLOFSON, ROY A	NEW METHODS OF PEPTIDE SYNTHESIS	RO1GM 13980-04	MCHB	51,985
PATTON, STUART	STRUCTURE AND SYNTHESIS OF THE MILK FAT	RO1HE 03632-10	MET	20,201
PAZUR, JOHN H	GLYCOPROTEINS OF MICROBIAL AND PLANT ORIGIN	RO1AM 10822-02	PC	33,318
PHILLIPS, ALLEN T	METABOLIC REGULATION OF CATABOLIC ENZYMES	RO1AM 11619-03	PC	26,132
POOTJES, CHRISTINE F	PHAGE RELEASE IN LYSOGENIC A TUMEFACIENS STRAINS	RO1CA 10370-01	VR	8,464
PUBOLS, BENJAMIN H, JR	NEURAL CORRELATES OF SOMATIC SENSIBILITY	RO1NB 06371-03	PHY	15,453
SCHRAER, HARALD	THE ULTRASTRUCTURE OF CALCIUM SUPPORTING TISSUES	RO1DE 01764-06	DN	42,671
SCHRAER, ROSEMARY S	CELLULAR METABOLISM IN AVIAN OVIDUCT	RO1AM 02970-07	MET	21,218
SHAMMA, MAURICE	THE CHEMISTRY OF ALKALOIDS AND RELATED COMPOUNDS	RO1GM 06008-06	MCHB	21,290
STROTHER, GREENVILLE K	MICROSPECTROPHOTOMETRY OF VISUAL SYSTEMS	RO1NB 06978-02	VIS	16,934
TERSHAK, DANIEL R	EARLY RNA SYNTHESIS IN POLIOVIRUS INFECTED CELLS	RO1AI 06810-02S1	VR	1,500
ZIMMERMAN, LEONARD N	PROTEINASE BIOSYNTHESIS IN STREPTOCOCCUS FAECALIS	RO1AI 06485-04	MBC	13,855
INSTITUTION TOTAL	33	831,163		
WARREN				
PENNSYLVANIA STATE DEPARTMENT OF PUBLIC WELFARE--WARREN STATE HOSPITAL				
WARDI, AHMAD	PENTOSE-CONTAINING POLYSACCHARIDES IN NERVOUS TISSUE	RO1NB 05932-03	PC	11,831
INSTITUTION TOTAL	1	11,831		
WASHINGTON				
WASHINGTON & JEFFERSON COLLEGE				
HARRISON, JOHN R	GROWTH AND DIFFERENTIATION OF EMBRYONIC EYE	RO1NB 06241-04	MBY	18,197
INSTITUTION TOTAL	1	18,197		
YORK				
YORK HOSPITAL				
SCHUMACHER, HAROLD R	DNA SYNTHESIS IN LEUKEMIA AND MONONUCLEOSIS	RO1CA 08245-03	HEM	17,506
INSTITUTION TOTAL	1	17,506		
STATE TOTAL	850	40,721,902		
RHODE ISLAND				
BARRINGTON				
BARRINGTON COLLEGE				
EATON, GORDON J	IMPLANTATION AND LETHALITY IN YELLOW MICE	RO1HD 00036-05	GEN	14,085
FORBES, PAUL O	STUDIES ON UV RADIATION CARCINOGENESIS IN MICE	RO1CA 08493-03S1	RAD	3,900
INSTITUTION TOTAL	2	17,985		
KINGSTON				
GORDON RESEARCH CONFERENCES				
HAUROWITZ, FELIX	GORDON RESEARCH CONFERENCE ON IMMUNOLOGY	R13AI 08411-01	ALY	9,200
INSTITUTION TOTAL	1	9,200		
RHODE ISLAND UNIVERSITY OF				
BECKMAN, CARL H	MECHANISM OF HOST RESISTANCE TO INFECTION	RO1GM 12364-04	TMP	12,462
DAIN, JOEL A	GANGLIOSIDE INDUCTION DURING EMBRYONIC DEVELOPMENT	RO1NB 05104-04A1	PC	15,151
FISHER, HAROLD W	CELLULAR RNA IN TUMOR VIRUS INFECTION	RO1CA 07787-04	VR	19,552
FULLER, GEORGE C	RELATIONSHIP OF COLLAGEN SYNTHESIS TO ATHEROSCLEROSIS	RO1HE 11578-01	MET	28,430
HUTCHISON, VICTOR H	METABOLISM AND TEMPERATURE REGULATION IN REPTILES	RO1GM 10156-03S1	PHY	80
PURVIS, JOHN L	INCRP. OF KREBS CYCLE INTERMEDIATES INTO MITOCHONDRIA	RO1GM 09806-05	BIO	28,983
TREMBLAY, GEORGE C	REGULATION OF PYRIMIDINE BIOSYNTHESIS IN THE RAT	RO1HD 03168-01	MET	16,738
TURCOTTE, JOSEPH G	SYNTHESIS OF POTENTIAL PHOSPHOLIPID ANTICANCER AGENTS	RO1CA 08955-02	MCHB	10,291
WINN, HOWARD E	ACOUSTICAL COMMUNICATION	RO1NB 06397-04	CMS	24,660
INSTITUTION TOTAL	9	156,347		
PROVIDENCE				
BROWN UNIVERSITY				
BARTOSHUK, ALEXANDER K	HUMAN NEONATAL EEG CORRELATES OF NEUROMORPHOLOGY	RO1HD 01814-06	NEUA	14,205
BRAY, PHILIP J	QUADRUPOLE RESONANCE STUDIES OF MOLECULAR CRYSTALS	RO1CA 08041-04	BBCB	48,113
BURNRIGHT, ROBERT C	A CENTER FOR AGING RESEARCH AT BROWN UNIVERSITY	PO1HD 00671-08	HDP	130,459

TABLE 2—RESEARCH GRANTS, BY AREA, INSTITUTION, AND PRINCIPAL INVESTIGATOR

INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRG	DOLLARS
RHODE ISLAND—(CON.)				
CHA, SUNGMAN	SUBSTRATE-LEVEL PHOSPHORYLATION IN HEART MUSCLE	RD1GM 14093-02	PC	22,057
CHAPMAN, KENT M	TRANSDUCTION AND ENCODING IN MECHANORECEPTORS	R01NB 06478-03	PHY	15,162
CHASE, HERMAN B	SKIN CYCLES AND IONIZING RADIATIONS	R01CA 00592-17	RAD	51,600
CIABATTONI, JOSEPH	REACTIONS OF CYCLOPROPENONES AND RELATED SYSTEMS	R01GM 14579-02	MCHA	22,284
CLAPP, LEALLYN B	CHEMISTRY OF ETHYLENIMINES	R01CA 07521-05	MCHB	29,048
COLEMAN, JOHN R	PROTEIN BIOSYNTHESIS DURING MYOGENESIS IN VITRO	R01HD 00047-05	MBY	27,190
EBNER, FORD F	AN ANATOMICAL ANALYSIS OF NEOCORTICAL ORGANIZATION	R01NB 06551-03	NEUA	29,003
EDDS, MAC V, JR	EMBRYONIC ORIGIN AND DISTRIBUTION OF COLLAGEN	R01AM 01755-11	CBY	25,366
ENGEN, TRYGG	ODOR DISCRIMINATION IN HUMAN INFANTS	R01HD 02358-02	EPR	17,147
FAIN, JOHN N	HORMONAL CONTROL OF LIPID METABOLISM	R01AM 10149-03	MET	28,618
FENTON, PAUL F	METABOLIC EFFECTS OF HORMONES SOME GENETIC ASPECTS	R01HD 01227-16	MET	19,686
GALLETTI, PIERRE M	SYNTHESIS OF ARTIFICIAL LUNG AND KIDNEY SYSTEMS	R01HE 11945-01	SGYB	80,942
GIBBS, JULIAN H	STATISTICAL MECHANICS OF BIOLOGICAL MACROMOLECULES	R01GM 10906-07	BBCC	37,297
GOLDSTEIN, SIDNEY	CHANGING CONSUMPTION PATTERNS OF THE AGED	R01HD 01550-03S1	DBR	698
GOLDSTEIN, SIDNEY	CHANGING CONSUMPTION PATTERNS OF THE AGED	R01HD 01550-04	DBR	22,496
HODOSH, MILTON	REACTIONS OF PERIODONTAL TISSUES TO IMPLANTED TEETH	R01DE 01215-08	DEN	30,558
LEDUC, ELIZABETH H	BIOMEDICAL SCIENCES SUPPORT	S05FR 07085-03	NSS	85,808
LIPSITT, LEWIS P	SENSORY DISCRIMINATION AND LEARNING IN INFANTS	R01NB 04268-06	MNHA	40,200
MARSHALL, JEAN M	PROPERTIES OF CARDIAC AND SMOOTH MUSCLE	R01HE 10187-02S1	PHY	2,988
MARSHALL, JEAN M	PROPERTIES OF CARDIAC AND SMOOTH MUSCLE	R01HE 10187-03	PHY	30,453
MARSHALL, JEAN M	GENERAL RESEARCH SUPPORT GRANT	S01FR 05664-01	NSS	86,192
MIECH, RALPH P	NEURONAL VS GLIAL METABOLISM OF NUCLEOTIDES	R01NB 06034-04	BIO	32,805
NACE, HAROLD R	STEROID CHEMICAL AND BIOLOGICAL REACTIVITY	R01AM 11024-02	MCHA	21,295
PARKS, ROBERT E, JR	COENZYMES CONTAINING PURINE AND PYRIMIDINE ANALOGUES	R01CA 07340-05	PHRB	69,355
PIERREL, ROSEMARY	PARAMETERS OF GENERALIZATION AND DISCRIMINATION	R01HD 00928-07	EXP	24,717
PUTNAM, SERPAS J	COMPARATIVE STUDIES OF THE CORTEX	R01NH 07840-01	NEUA	29,535
PYSH, EUGENE S	VACUUM UV OPTICAL STUDY OF BIOLOGICAL CHROMOPHORES	R01GM 14689-01	BBCA	47,719
QUEVEDO, WALTER C, JR	RESPONSE OF PIGMENT CELLS TO X-AND UV-RADIATIONS	R01CA 06097-07	RAD	22,114
RIGGS, LORRIN A	THE HUMAN ERG IN RESPONSE TO MONOCHROMATIC LIGHT	R01NB 01453-11	VIS	22,408
ROSENBLITH, JUDY F	NEONATAL ASSESSMENTS AND FOLLOW-UP VALIDATIONS	R01HD 02559-08	DBR	22,216
ROTMAN, M BORIS	TRANSPORT SYSTEMS FOR GALACTOSE IN E COLI	R01AM 11194-02	BIO	32,182
ROTMAN, M BORIS	BIOLOGICAL USES OF FLUOROGENIC ASSAYS FOR ENZYMES	R01GM 14198-02	CBY	33,496
SCHRIER, ALLAN M	LABORATORY PRIMATE NEWSLETTER	R01FR 00419-01	PME	7,681
SHEPP, BRYAN E	LEARNING & TRANSFER IN DISCRIMINATIONS BY RETARDATES	R01HD 01349-03S1	EXP	4,761
SHIPP, WILLIAM S	GENETICS AND REGULATION OF MEMBRANE-BOUND ENZYMES	R01AI 08595-01	MCB	35,640
SIMEONE, FIORINDO A	STUDIES OF EXPERIMENTAL AND CLINICAL SHOCK	R01HE 12534-01	SGYA	66,734
SIQUELAND, EINAR R	ONTOGENY OF VISUAL AND AUDITORY EXPLORATION IN INFANTS	R01HD 03386-01	DBR	47,101
STEIM, JOSEPH M	DIFFERENTIAL THERMAL ANALYSIS OF PROTEIN DENATURATION	R01GM 14696-02	BBCA	28,950
STEWART, PETER A	SYSTEMS ANALYSIS OF RESPIRATORY AND RENAL FUNCTION	R01GM 14877-02	COM	20,056
STRAUSS, ELLIOTT W	ELECTRON MICROSCOPIC STUDY OF FAT ABSORPTION	R01GM 16293-01	GMA	54,721
SUTERA, SALVATORE P	ERYTHROCYTE MOTION IN CAPILLARIES	R01HE 09263-02S1	CVB	12,311
VAN LANCKER, JULIEN L	BIOCHEMICAL PATHOLOGY OF IRRADIATION	R01GM 14395-02	RAD	75,046
WELTMAN, JOEL K	FLUORESCENCE ENHANCEMENT STUDY OF HAPTEN BINDING	R01AI 07754-02	ALY	12,048
WERTHESSEN, NICHOLAS T	LIPID BIOSYNTHESIS OF THE HUMAN REPRODUCTIVE TRACT	R01HD 02599-03	REB	21,692
WILSON, J WALTER	NUCLEAR PHENOMENA IN THE MOUSE LIVER	R01CA 00510-21	CBY	25,281
WILSON, J WALTER	ELECTRON MICROSCOPY OF NORMAL AND TUMOR TISSUES	R01CA 04046-10	CBY	1,476
YAGER, C DEAN	ANALYSIS OF VISION	R01NB 07811-01	EXP	23,051
INSTITUTION TOTAL	50	1,691,961		
PROVIDENCE COLLEGE				
STOKES, WILLIAM M	SOME ASPECTS OF THE METABOLISM OF STEROLS	R01CA 02851-12	PC	33,206
INSTITUTION TOTAL	1	33,206		
RHODE ISLAND COLLEGE				
VERY, PHILIP S	DEVELOPMENTAL ASPECTS OF INTELLECTIVE ABILITIES	R01HD 03270-01S1	MNHA	3,381
VERY, PHILIP S	DEVELOPMENTAL ASPECTS OF INTELLECTIVE ABILITIES	R01HD 03270-02	DBR	20,815
INSTITUTION TOTAL	2	24,196		
RHODE ISLAND HOSPITAL				
BARKER, BARBARA E	ISOLATION AND CHARACTERIZATION OF PHYTOMITOGENS	R01GM 13186-03	PHRA	25,746
FARNES, PATRICIA	FACTORS INFLUENCING MYELOCYTIC SURVIVAL IN VITRO	R01CA 10785-03	HEM	28,229
HAMOLSKY, MILTON W	GENERAL RESEARCH SUPPORT GRANT	S01FR 05644-02	NSS	67,848
LEONE, LOUIS A	PARTICIPATION IN ACUTE LEUKEMIA GROUP B	R10CA 08025-04	SRC	58,618
MC DUFF, HENRY C, JR	ADJUVANT UTERINE CANCER CHEMOTHERAPY	R01CA 07364-05	SRC	6,048
MUSIKER, HAROLD R	THE NURSE LEADER ROLE AND ITS IMPACT ON NURSING CARE	R02NU 00172-03	NR	38,624
STEIN, MYRON	PHYSIOLOGIC EFFECTS OF EXPERIMENTAL PULMONARY EMBOLISM	R01HE 10017-03	CVA	36,815
INSTITUTION TOTAL	7	261,928		
STATE TOTAL	72	2,194,823		
SOUTH CAROLINA				
CHARLESTON				
SOUTH CAROLINA HISTORICAL SOCIETY				
CHILDS, ST JULIEN R	INFLUENCE OF DISEASE ON SOCIETY, SO CAROLINA 1696-1776	R01LM 00497-01	HLS	11,140

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INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRG	DOLLARS
SOUTH CAROLINA—(CON.)				
INSTITUTION TOTAL		1	11,140	
SOUTH CAROLINA MEDICAL COLLEGE OF				
BAGWELL, ERVIN E	CARDIAC DYNAMICS FOLLOWING CORONARY EMBOLIZATION	RO1HE 10411-03	CVB	12,180
BERNTHAL, THEODORE G	CAROTID CHEMORECEPTORS AND CHRONIC HYPOXIA-HYPOCAPNIA	RO1HE 08857-05	PHY	25,810
BONNER, WALTER M, JR	CARTILAGE POLYSACCHARIDES IN OSTEOARTHRITIS	RO1AM 09899-03	GM	17,400
BRADHAM, GILBERT B	THERMODYNAMIC MANIFESTATIONS OF SEVERE SHOCK	RO1GM 14173-03	SGYA	62,710
BUSE, MARIA G	FACTORS THAT MODIFY INSULIN ACTION	RO1AM 02001-11	MET	54,053
CURRY, HIRAM B	CORTICAL & CEREBRAL CIRCULATION IN HEALTH & DISEASE	RO1NB 04766-03S2	NEUA	4,225
CURRY, HIRAM B	CORTICAL AND CEREBRAL CIRCULATION IN HEALTH AND DISEASE	RO1NB 04766-04	NEUA	10,064
CURRY, HIRAM B	CORTICAL AND CEREBRAL CIRCULATION IN HEALTH AND DISEASE	RO1NB 04766-05	NEUA	16,173
GALE, GLEN R	PHARMACOLOGY OF DERIVATIVES OF NATURAL COMPOUNDS	RO1GM 13958-03	PHRA	29,503
GAZES, PETER C	ANTI-ARRHYTHMIC DRUGS IN ACUTE MYOCARDIAL INFARCTION	RO1HE 05973-06S1	SRC	8,311
GAZES, PETER C	COOPERATIVE STUDY OF DRUGS AND CORONARY HEART DISEASE	RO1HE 11063-02	SRC	73,215
GODFREY, EARL H	STUDIES OF FACTORS AFFECTING MUSCLE ENZYMES	RO1NB 06991-02	PTHA	10,442
HENNIGAR, GORDON R	ELECTRON MICROSCOPY-EXPERIMENTAL PATHOLOGY	RO1AM 10956-02	PTHA	20,881
HOCH, JOHN HAMPTON	A HISTORY OF PHARMACOGNOSY	RO1LM 00571-01	HLS	8,685
KNISELY, MELVIN H	VASOMOTOR REGULATION IN THE DENTAL PULP	RO1DE 02433-03	DEN	9,755
KNISELY, MELVIN H	PATHOLOGIC CIRCULATORY PHYSIOLOGY, ANALYTIC STUDIES	RO1HE 04176-10	SSS	102,252
LEE, WILLIAM H, JR	PSYCHOMETRIC CHANGES FOLLOWING CARDIAC SURGERY	RO1HE 12050-01	SGYA	29,572
METZ, BERNARD	POSSIBLE CHOLINERGIC FACTORS IN RESPIRATORY PHYSIOLOGY	RO1NB 07149-02	PHY	10,988
PANNELL, LOLITA	THE ROLE OF STREPTOPHAGE IN RHEUMATIC FEVER	RO1AI 07327-02	BM	14,221
RICHARDSON, STUART N	HEMOGLOBIN COMPONENTS DURING VARIATION IN ERYTHROPOIESIS	RO1HE 10572-05	HEM	17,426
RITTENBURY, MAX S	STUDIES IN EXPERIMENTAL PANCREATITIS	RO1AM 11325-01S1	PTHB	30,906
SPICER, SAMUEL S	MORPHOCHEMICAL STUDIES WITH LIGHT & ELECTRON MICROSCOPY	RO1AM 11028-02	PTHA	36,586
WALTON, ROBERT P	GENERAL RESEARCH SUPPORT GRANT	SO1FR 05420-07	NSS	126,401
WARING, JOSEPH I	MEASUREMENT OF CHANGES IN HEART CONTRACTILE FORCE	RO1HE 00040-21	PHY	21,574
WOHLTMANN, HULDA J	HISTORY OF MEDICINE IN SOUTH CAROLINA	RO1LM 00528-01	HLS	13,254
WOODS, EUGENE F	MODE OF ACTION OF INSULIN ON MUSCLES	RO1AM 12332-01	MET	47,416
WORTHINGTON, WARD C, JR	DRUGS AND ELECTRO-MECHANICAL COUPLING IN THE HEART	RO1HE 11321-02	PHRA	23,446
	RELEASING FACTORS IN HYPOPHYSEAL PORTAL BLOOD GRF	RO1AM 10520-03	END	22,956
INSTITUTION TOTAL		28	860,405	
CLEMSON				
CLEMSON UNIVERSITY				
BORGMAN, ROBERT F	PATHOGENESIS OF GALLSTONES AND LIPID METABOLISM	RO1AM 07027-06	NTN	23,237
BRULEY, DUANE F	MATHEMATICAL STUDIES OF OXYGEN DIFFUSION IN THE BRAIN	RO1NB 06957-02	NEUB	26,057
BUNGAY, HENRY R, III	GROWTH IN MIXED CULTURES OF MICROORGANISMS	RO1EM 00283-01	BM	19,098
HUFFMAN, JOHN W	A SYNTHESIS OF VERATRAMINE	RO1HE 11170-02	MCHA	10,588
HUFFMAN, JOHN W	SYNTHESIS OF IBOGA ALKALOIDS	RO1NB 04589-05	MCHB	12,325
HULBERT, SAMUEL F	KINETICS OF CORROSION OF PROSTHETIC MATERIALS	RO1AM 10694-02	SGYA	28,363
SPENCER, HAROLD G	PENETRANT CLUSTERING AND DIFFUSION IN MEMBRANES	RO1HE 10536-03	BBCB	8,719
INSTITUTION TOTAL		7	128,387	
COLUMBIA				
SOUTH CAROLINA UNIVERSITY OF				
AMMA, ELMER L	MOLECULAR STRUCTURE AND SPECTRA OF METAL CHELATES	RO1GM 13985-03	MCHB	32,126
CUNNINGHAM, EARLENE B	ARGININE VASOPRESSIN AND ITS POSSIBLE ROLE IN STRESS	RO1HE 12372-01	GMB	24,595
HEMPY, ANN P	NURSING PREPARATION OF PATIENTS FOR COLONIC RADIOLOGY	R21NU 00303-01	NR	29,374
INSTITUTION TOTAL		3	86,095	
GREENVILLE				
FURMAN UNIVERSITY				
KUBLER, DONALD G	MODEL STUDIES FOR GLYCOSIDE HYDROLYSIS	RO1AM 11244-02	MCHB	10,574
INSTITUTION TOTAL		1	10,574	
STATE TOTAL		40	1,096,601	
SOUTH DAKOTA				
VERMILLION				
SOUTH DAKOTA UNIVERSITY OF				
GAUSH, CHARLES R	LIPIDS OF VIRUS INFECTED CELLS	RO1AI 05478-06	VR	37,447
KNABE, GEORGE W, JR	GENERAL RESEARCH SUPPORT GRANT	SO1FR 05421-07	NSS	44,849
MARSHALL, FINLEY D, JR	HOMOCARNOSINE METABOLISM IN BRAIN	RO1NB 06137-03	MET	11,040
NEUHAUS, OTTO W	CONTROL OF HEPATIC BIOSYNTHESIS OF PLASMA PROTEINS	RO1AM 11146-02	MET	53,973
PEANASKY, ROBERT J	PURIFICATION OF PROTEINS WITH BIOLOGICAL ACTIVITY	RO1GM 16203-01	BIO	15,950
READ, WILLARD O	TAURINE IN THE HEART-ANTIFIBRILLATORY POTENTIAL	RO1HE 06044-08	PHY	13,467
SCOTT, EARL B	HISTOPATHOLOGY OF AMINO ACID DEFICIENCIES	RO1AM 00289-19	PTHA	6,765
SMITH, PAUL F	LIPIDS OF PLEUROPNEUMONIA-LIKE ORGANISMS	RO1AI 04410-07	MBC	25,962
WELTY, JOSEPH D, JR	AMINO ACIDS OF CONTRACTILE PROTEINS OF FAILING HEARTS	RO1HE 09234-04	CVB	6,646
INSTITUTION TOTAL		9	216,099	
STATE TOTAL		9	216,099	

TABLE 2—RESEARCH GRANTS, BY AREA, INSTITUTION, AND PRINCIPAL INVESTIGATOR

INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRG	DOLLARS
TENNESSEE				
JEFFERSON CITY				
CARSON-NEWMAN COLLEGE				
BAHNER, CARL T	SYNTHESIS OF COMPOUNDS FOR CANCER CHEMOTHERAPY STUDY	RO1CA 03717-11	PHRB	36,861
INSTITUTION TOTAL 1	36,861			
KNOXVILLE				
TENNESSEE UNIVERSITY OF				
ANDERSON, BRUCE M	MITOCHONDRIAL STUDIES OF SUBSTITUTED PYRIDINES	RO1AM 08812-04	BIO	21,749
BELL, SANDRA L	EFFECT OF FLUORODEOXYURIDINE ON VICIA FABA	RO1CA 07264-04	GEN	9,272
CHERNOFF, AMOZ I	BIOCHEMICAL AND GENETIC STUDIES OF HEMOGLOBIN	RO1AM 02956-10	HEM	48,000
CHERNOFF, AMOZ I	GENERAL RESEARCH SUPPORT GRANT	SO1FR 05541-03	NSS	45,454
COGGIN, JOSEPH H, JR	FUNCTIONAL IMMUNITY IN AN ONCOGENIC VIRUS-HOST SYSTEM	RO1CA 10429-01	VR	28,452
CRAGLE, RAYMOND G	KIDNEY TRANSPLANTATION IN DIZYGOTIC CATTLE TWINS	RO1AM 10684-03	SGYA	24,151
FULLER, R CLINTON	STRUCTURAL REQUIREMENTS FOR PHOTOSYNTHESIS	RO1GM 15595-02	PC	37,963
KRETCHMAR, ARTHUR L	HEMOPOIETIC RECOVERY AND ERYTHROPOIETIN ACTION	RO1AM 11894-01	HEM	59,338
LANGE, ROBERT D	DEVELOPMENT OF AN ANIMAL FACILITY AND TESTING PROGRAM	P06FR 00365-01	SSS	97,590
LANGE, ROBERT D	ERYTHROPOIETIN - IMMUNOASSAY AND CHARACTERIZATION	RO1HE 10567-03	HEM	34,874
LEVIN, ALFRED P	A STUDY OF PERIOD DAMAGE EFFECTS ON ENZYME ACTIVITY	RO1AM 12581-01	BIO	22,016
LOZZIO, BISMARCK B	AN EXPERIMENTAL MODEL FOR HEREDITARY HYDRONEPHROSIS	RO1AM 12490-01	GMA	27,434
SMITH, HILTON A	BIOMEDICAL SCIENCES SUPPORT	SO5FR 07088-02	NSS	41,457
SOLOMON, ALAN	PROTEINS IN MULTIPLE MYELOMA AND RELATED BLOOD DISEASES	RO1CA 10056-03	ALY	48,194
INSTITUTION TOTAL 14	545,944			
MEMPHIS				
BAPTIST MEMORIAL HOSPITAL				
BRADFUTE, GEORGE A, JR	MECHANICAL PROPERTIES OF CARTILAGE	RO1AM 11198-02	SGYB	9,135
DOWLING, CHARLES V	COOPERATIVE STUDY OF DRUGS AND CORONARY HEART DISEASE	RO1HE 11518-02	SRC	1,540
INSTITUTION TOTAL 2	10,675			
SOUTHERN COLLEGE OF OPTOMETRY				
PORTER, VONNE F	BASIC PARAMETERS OF THE TROXLER EFFECT	RO1NB 06681-01S1	VIS	11,564
PORTER, VONNE F	BASIC PARAMETERS OF THE TROXLER EFFECT	RO1NB 06681-02	VIS	30,913
INSTITUTION TOTAL 2	42,477			
SOUTHWESTERN AT MEMPHIS				
LYONS, HAROLD	POLYSACCHARIDES FROM INTERVERTEBRAL DISCS	RO1AM 03749-08	BBCB	15,594
INSTITUTION TOTAL 1	15,594			
ST. JUDE CHILDREN'S RESEARCH HOSPITAL				
CHEUNG, WAI Y	CYCLIC PHOSPHODIESTERASE OF CENTRAL NERVOUS SYSTEM	RO1NB 08059-01	BIO	41,574
DARLINGTON, ROBERT W	SEQUENTIAL DEVELOPMENT OF EQUINE ABORTION VIRUS	RO1AI 05765-05	VR	15,671
ENNIS, HERBERT L	ANTIBIOTIC INHIBITORS OF PROTEIN SYNTHESIS	RO1GM 12359-03S1	BIO	1,852
ENNIS, HERBERT L	ANTIBIOTIC INHIBITORS OF PROTEIN SYNTHESIS	RO1GM 12359-04	BIO	15,988
GRANOFF, ALLAN	MULTIPLICATION AND GENETICS OF MYXOVIRUSES	RO1AI 05343-06	GEN	39,259
GRANOFF, ALLAN	INTERACTION OF THE LUCKE VIRUS AND AMPHIBIAN CELLS	RO1CA 07055-06	VR	48,553
MC AUSLAN, BRIAN R	ENZYME INDUCTION IN VIRUS INFECTED CELLS	RO1AI 08488-01	VR	46,884
MORRISON, MARTIN	RELATION OF LACTOPEROXIDASE TO ORAL FLORA AND CARIES	RO1DE 02792-01	BIO	27,988
MORRISON, MARTIN	STRUCTURE AND FUNCTION OF LACTOPEROXIDASE	RO1GM 15913-01	BIO	28,207
MORRISON, MARTIN	STUDIES OF CYTOCHROME OXIDASE	RO1GM 15919-01	BBCA	44,978
PINKEL, DONALD	CHEMOTHERAPY OF CANCER	RO1CA 07594-05	SRC	79,298
PINKEL, DONALD	GENERAL RESEARCH SUPPORT GRANT	SO1FR 05584-04	NSS	54,945
PINKEL, DONALD P	CHILDHOOD CANCER RESEARCH CLINICAL CENTER	P02CA 08480-03	SSS	437,890
SELLS, BRUCE H	GROWTH HORMONE FROM RAT PITUITARY TUMORS	RO1AM 07375-05	END	27,505
INSTITUTION TOTAL 14	910,592			
TENNESSEE UNIVERSITY OF				
ANGER, LORIN E	SPATIAL VECTORCARDIOGRAPHY IN INFANTS AND CHILDREN	RO1HE 05755-06S1	CVA	5,035
AUTIAN, JOHN	POLYMERIC MATERIALS FOR MEDICAL APPLICATIONS	RO1ES 00292-01	TOX	47,793
AVERILL, ROBERT L	PITUITARY ACTIVATION BY HYPOTHALAMIC NEUROHUMORS	RO1AM 11379-02	END	21,849
BENSON, BRYANT	STUDIES ON A SERUM INHIBITOR OF INSULIN	RO1AM 11733-01	MET	32,231
BICKS, RICHARD O	DELAYED HYPERSENSITIVITY REACTIONS IN THE GI TRACT	RO1AM 09384-04	GM	44,685
BIGGS, ALBERT W	STUDIES INTO THE ETIOLOGY OF PROSTATITIS	RO1AM 10771-02	SGYA	19,613
BRODY, DANIEL A	CARDIOVASCULAR COMPUTER PROJECT	PO1HE 09495-07	HEP	138,206
BRODY, DANIEL A	APPLIED BIOPHYSICS OF ECG LEADS AND STETHOGRAPHY	RO1HE 01362-16	CVA	27,143
BROWN, FOUNTAINE C	CYSTATHIONINE METABOLISM IN BRAIN	RO1NB 04454-05	MET	9,221
BUCOVAZ, EDSSEL T	THE EFFECT OF AMINO ACID ON ANALOGS ON PROTEIN SYNTHESIS	RO1AM 09131-04	BIO	21,689
CALLISON, M K	GENERAL RESEARCH SUPPORT GRANT	SO1FR 05423-07	NSS	231,902
CALLISON, MASTON K	GENERAL CLINICAL RESEARCH CENTER	MO1FR 00211-04	CLR	424,991
CHANG, FREDERIC C	SYNTHESIS AND STUDY OF MODIFIED STEROIDS	RO1CA 05011-08S1	MCHA	944
CHANG, FREDERIC C	SYNTHESIS AND STUDY OF MODIFIED STEROIDS	RO1CA 05011-09	MCHA	16,787
COHN, SIDNEY A	STUDIES OF THE PERIODONTIUM	RO1DE 02380-01A1	DEN	22,554

TABLE 2—RESEARCH GRANTS, BY AREA, INSTITUTION, AND PRINCIPAL INVESTIGATOR

INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRG	DOLLARS
TENNESSEE—(CON.)				
DI LUZIO, N R	ANTIOXIDANTS AND FATTY LIVER DEVELOPMENT	RO1AM 08084-05	TOX	28,080
DI LUZIO, NICHOLAS R	RETICULO-ENDOTHELIAL INVOLVEMENT IN LIPID METABOLISM	RO1HE 05367-09	PTHB	35,400
DIGGS, LEMUEL W	SICKLE CELL DISEASE	RO1HE 07275-06	HEM	48,266
EVANS, JAMES S	NEUROHUMORAL CONTROL OF THE ADENOHYPOPHYSIS	RO1HD 02457-02	END	18,600
FILKINS, JAMES P	RETICULOENDOTHELIAL FUNCTION AND SHOCK RESISTANCE	RO1HE 11499-01	CVB	17,219
FISHER, JAMES W	INFLUENCE OF HORMONES ON ERYTHROPOIETIN PRODUCTION	RO1AM 02973-09	HEM	43,493
FITZGERALD, LAURENCE R	EFFECTS OF ACTINOMYCIN D ON TOOTH DEVELOPMENT	RO1DE 02339-03	DEN	16,342
FITZGERALD, LAURENCE R	METABOLIC CONTROLS OF TOOTH FORMATION	RO1DE 02682-03	DEN	14,291
FITZGERALD, LAURENCE R	TOOTH DEVELOPMENT FOLLOWING FETAL OR NEONATAL ANOXIA	RO1HD 01848-02S1	DEN	1,603
GINSKI, JOHN M	ERYTHROCYTES AND THE MICROCIRCULATION OF THE HEART	RO1HE 11208-02	CVB	16,171
GROSVENOR, CLARK E	NEURAL AND HORMONAL REGULATION OF LACTATION	RO1AM 03637-09	END	20,984
HAGEN, A AINSWORTH	METABOLISM OF ESTROGENS	RO1AM 11201-02	END	15,939
HILL, ROBERT J	VARIANT FORMS OF HEMOGLOBIN A	RO1HE 06914-07	HEM	12,539
HILL, ROBERT J	REACTIVITY AND CONFORMATION OF PROTEINS	RO1HE 08867-05	BBCA	28,713
IRVING, CHARLES C	STUDIES ON CHEMICAL CARCINOGENESIS	RO1CA 05490-08	PHRB	10,963
KELLY, RICHARD T	PATHOGENESIS OF PNEUMOCOCCAL INFECTION	RO1AI 08586-01	BM	25,175
KELLY, RICHARD T	BIOCHEMICAL STUDIES OF THE BRAIN IN MENINGITIS	RO1NB 07886-01	PTHA	12,191
KNOTT, DAVID H	EFFECT OF ETHANOL ON CARDIOVASCULAR FUNCTION	RO1HE 11355-02	CVB	19,558
KRAUS, ALFRED P	GLUTATHIONE INSTABILITY WITH OTHER RED CELL DEFECTS	RO1AM 03803-09	HEM	21,706
LAWRENCE, WILLIAM H	CARDIOVASCULAR ACTIVITY OF EXTRACTS FROM PVC PLASTICS	RO1HE 11130-02	TOX	15,246
MASI, ALFONSE T	EXPERIMENTAL CLINICAL INVESTIGATION PROGRAM IN R A	RO1AM 12049-02	SSS	107,833
MOON, RICHARD C	HORMONES INFLUENCING MAMMARY GROWTH AND CARCINOMA	RO1AM 05105-09	END	22,393
MUIRHEAD, ERNEST E	RENAL TRANSPLANTS AND EXTRACTS IN HYPERTENSION	RO1HE 09765-04	CVB	124,258
MURPHEY, FRANCIS	UNIVERSITY OF TENN CEREBROVASCULAR RESEARCH CENTER	PO1NB 06826-02	NBPA	122,544
MURPHEY, FRANCIS	A COOPERATIVE STUDY OF ACUTE SUBARACHNOID HEMORRHAGE	RO1NB 02380-11	SSS	8,720
MURPHEY, FRANCIS M	PROFOUND HYPOTHERMIA CEREBROVASCULAR PROBLEMS	RO1NB 05651-05	NEUA	76,264
MURRELL, LEONARD R	PANCREATIC ISLETS IN ORGAN CULTURE	RO1AM 12406-01	PTHB	11,672
NASH, CLINTON B	ALTERATION OF DIGITALIS ARRHYTHMIAS BY RESERPINE	RO1HE 08046-05	PHRA	12,266
NEWMAN, WILEY C, JR	CHEMICAL CARCINOGENESIS AND THE THYROID	RO1CA 10323-02	PTHB	14,537
NORTON, WALTER L	MICROVASCULAR INJURY IN HUMAN DISEASE	RO1HE 12385-01	PTHA	40,865
PETERSON, SHAILER	GENERAL RESEARCH SUPPORT GRANT	S01FR 05342-07	NSS	54,682
REGER, JAMES F	STUDIES ON SPECIALIZED CONDUCTILE AND MOTILE CELLS	RO1NB 06285-04	CBY	14,676
ROBERTS, AUDREY N	ANTIGEN-ANTIBODY RELATIONSHIPS IN VIVO AND IN VITRO	RO1AI 04217-07	ALY	35,889
RYTEL, MICHAEL W	MECHANISMS OF RESISTANCE TO VIRAL INFECTIONS	RO1AI 07299-03	VR	26,553
SCHREIER, PHIL C	ADJUVANT UTERINE CANCER CHEMOTHERAPY	RO1CA 07389-05	SRC	5,722
SOPHANOPOULOS, ALKIS J	THERMODYNAMICS OF REVERSIBLE PROTEIN DENATURATION	RO1GM 10167-05S1	BBCB	7,200
SPRUNT, DOUGLAS H	STUDY OF POLYSACCHARIDES FROM INTERVERTEBRAL DISCS	RO1AM 03748-08	BBCB	8,990
SPRUNT, DOUGLAS H	DEVELOPMENT OF SEROLOGICAL TEST FOR CANCER	RO1CA 09053-17S1	IMB	5,202
SPURR, GERALD B	HEPATIC FUNCTION IN HYPERTHERMIA	RO1AM 11555-01	GMA	8,465
STARR, JASON L	BIOCHEMISTRY OF INDUCTION OF ANTIBODY SYNTHESIS	RO1AI 06909-02S1	ALY	9,614
STOLLERMAN, GENE H	STREPTOCOCCAL IMMUNITY AND RHEUMATIC FEVER	RO1HE 09561-04	ALY	65,661
SUNDT, THORALF M, JR	EVOLUTION AND TREATMENT OF CEREBRAL INFARCTION	RO1NB 06822-02	NEUA	25,408
TODD, WILLIAM M	DEOXYRIBONUCLEOTIDE SYNTHESIS IN VIRUS-INFECTED CELLS	RO1AI 06062-05	VR	16,817
TROOP, ROBERT C	EFFECT OF HEPARIN ON METABOLISM OF ADRENAL STEROIDS	RO1AM 09151-03S1	END	9,942
VAN MIDDLESWORTH, LESTER	METABOLISM OF THYROXINE	RO1AM 04689-08	END	14,519
VOGEL, HOWARD H, JR	NEOPLASMS AFTER FISSION NEUTRON IRRADIATION	RO1CA 10635-01	RAD	29,233
WOOD, JOHN L	METABOLISM OF AROMATIC HYDROCARBONS	RO1CA 01228-17	BIO	16,639
YORK, J LYNDA L	CHEMISTRY OF ACTIVE SITES OF NON-HEME IRON PROTEINS	RO1GM 14191-02	BBCB	36,338
INSTITUTION TOTAL	63	2,420,024		
NASHVILLE				
GEORGE PEABODY COLLEGE FOR TEACHERS				
DUNN, LLOYD M	RESEARCH PROGRAM ON RETARDED INTELLECTUAL DEVELOPMENT	PO1HD 00973-05	HDP	246,779
HOBBS, NICHOLAS	IMPLEMENTATION GRANT, KENNEDY CENTER, PEABODY	PO1HD 02877-02	HDP	61,700
HOBBS, NICHOLAS	BIOMEDICAL SCIENCES SUPPORT	S05FR 07087-03	NSS	40,926
TOMLINSON, GUS	MECHANISM OF DIFFERENTIATION IN ACANTHAMOEBA SP	RO1GM 12637-03	CBY	16,939
INSTITUTION TOTAL	4	366,344		
MEHARRY MEDICAL COLLEGE				
AUDITORE, JOSEPH V	HUMAN BRAIN PEPTIDES, AMINO ACIDS AND AMINES	RO1NB 03520-07	PHRA	44,268
HOLLETT, CHARLOTTE R	ROLE OF ANS IN LIPID METABOLISM	RO1AM 09336-03S1	MET	10,211
JOHNSON, CHARLES W	FACTORS INFLUENCING HYPERSENSITIVITY	PO1AI 06085-03S1	IMB	32,881
JOHNSON, CHARLES W	GENERAL RESEARCH SUPPORT GRANT	S01FR 05422-07	NSS	69,824
LEVITCH, MARK E	REGULATION OF INTERCONNECTING METABOLIC PATHWAYS	RO1CA 10703-02	MCB	12,970
MOBLEY, EUGENIA L	GENERAL RESEARCH SUPPORT GRANT	S01FR 05341-07	NSS	29,095
NAVALKAR, RAMCHANDRA G	IMMUNOLOGIC STUDIES ON LEPROSY	R22AI 08647-01	SSS	21,388
OLSON, ERIK J	CARBAMYL PHOSPHATE SYNTHESIS IN BRAIN	RO1NB 07663-01	BIO	13,866
TAYLOR, JOHN C	EFFECTS OF SUBMAX GLAND EXTRACT ON TOOTH ERUPTION	RO1DE 02086-01A2	DEN	13,151
THOMAS, JOHN	CARDIOVASCULAR DISEASE CLINICAL PROGRAM PROJECT	PO1HE 06349-07	HEP	137,444
THOMAS, JOHN	COOPERATIVE STUDY OF RENOVASCULAR HYPERTENSION	RO1HE 07798-06	SRC	23,257
INSTITUTION TOTAL	11	408,355		
VANDERBILT UNIVERSITY				
ANDREWS, JOHN S	CORNEAL LIPIDS	RO1NB 07037-03	MET	32,944

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INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRG	DOLLARS
TENNESSEE—(CON.)				
BARNEY, GEORGE H	BIOCHEMICAL AND PATHOLOGICAL CHANGES IN ZINC DEFICIENCY	RO1AM 09898-03	NTN	12,756
BARNEY, GEORGE H	COPPER DEFICIENCY	RO1HE 12103-01	NTN	30,487
BASS, ALLAN D	THE ACTION OF HORMONES ON AMINO ACID TRANSPORT	RO1AM 05474-07	MET	25,325
BATSON, RANDOLPH	ESTABLISHMENT OF A CARDIOVASCULAR RESEARCH & TRAINING CT	RO1HE 11787-01	HEPB	137,321
BATSON, RANDOLPH	GENERAL RESEARCH SUPPORT GRANT	SO1FR 05424-07	NSS	256,896
BEDFORD, JOEL S	DOSE-TIME FACTORS INFLUENCING CELLULAR RADIOSENSITIVITY	RO1CA 10410-02	RAD	21,274
BOGITSCH, BURTON J	ULTRASTRUCTURAL LOCALIZATION OF ENZYMES IN HELMINTHS	RO1AI 08058-01	TMP	43,857
BRILL, A BERTRAND	KINETICS & FUNCTION OF BLOOD PLATELETS	RO1HE 07759-06	HEM	22,764
BUSH, MILTON T	METABOLIC INTERACTION OF DRUGS	RO1NB 03534-07	PHRA	36,506
CALDWELL, WILLIAM L	ALTERATION OF RENAL REACTION TO RADIATION	RO1CA 10083-02	RAD	16,304
CHEATHAM, WILLIAM J	INDUCED VIRUS INFECTIONS OF CNS - ELECTRON MICROSCOPY	RO1AI 04039-08	PTHB	22,735
CHERRY, JERRIE	REDUCTION OF VELOPHARYNGEAL SPACE WITH TEFLON	RO1DE 02684-01	CMS	27,932
CLAYTON, KEITH N	NONCORRECTED ERRORS IN DISCRIMINATION LEARNING	RO1HD 00924-07	EXP	23,022
COHEN, STANLEY	CONTROL OF EPIDERMAL GROWTH AND KERATINIZATION	RO1HD 00700-05	CBY	32,940
COLOWICK, SIDNEY P	ENZYMATIC OXIDATION AND PHOSPHORYLATION	RO1AM 03914-10	PC	50,533
COLOWICK, SIDNEY P	ENZYMATIC OXIDATION AND PHOSPHORYLATION	RO1AM 03914-11	BIO	56,937
COLOWICK, SIDNEY P	THE ROLE OF GLYCOLYSIS IN TUMOR GROWTH	RO1CA 04910-09	PC	23,188
CONIGLIO, JOHN G	BIOSYNTHESIS AND INTERCONVERSIONS OF FATTY ACIDS	RO1AM 06483-06	PC	35,376
CUNNINGHAM, LEON W	THE GLYCOPOLYMER REGION OF COLLAGEN	RO1AM 11821-01	PC	33,227
CUNNINGHAM, LEON W	CHEMICAL MODIFICATION IN PROTEIN STRUCTURE ANALYSIS	RO1CA 03640-11	BBCA	29,700
CUNNINGHAM, LEON W	A PROPOSAL FOR HEALTH SCIENCES ACHIEVEMENT PROGRAM	SO4FR 06067-02	NSS	350,000
DALE, W ANDREW	VASCULAR REPAIRS	RO1HE 09116-03S1	SGYA	4,479
DARBY, WILLIAM J	STUDIES OF MALNUTRITION IN THE MIDDLE EAST	RO1AM 08317-05	NTN	76,485
DAVIES, JACK	LUTEAL AND INTERSTITIAL CELL FUNCTION IN PREGNANCY	RO1HD 00132-04	REB	28,440
DAVIES, JACK	PLACENTAL-OVARIAN INTERRELATIONSHIPS	RO1HD 00971-06	REB	19,331
DE BALBIAN VERSTER, F	ROLE OF ACH AND GABA IN EPILEPTOGENIC FOCI	RO1NB 06835-02	NEUA	20,009
DES PREZ, ROGER M	PHYSIOLOGIC CHANGE PRODUCED BY GRAM NEGATIVE BACTERIA	RO1HE 08399-05	HEM	29,309
DI SABATO, GIOVANNI	COENZYME BINDING TO ENZYMES AND CONFORMATION OF ENZYMES	RO1AM 11472-02	PC	17,687
ELLIOTT, JAMES H	STUDIES OF OCULAR HYPERSENSITIVITY	RO1NB 06959-03	VIS	36,359
ENGEL, ERIC	HEREDITARY PREDISPOSITIONS TO CHROMOSOMAL ABNORMALITIES	RO1GM 11615-05	GEN	32,593
FAHMY, ALY	HORMONES AND ULTRASTRUCTURE OF EPIPHYSEAL CARTILAGE	RO1AM 11767-01	GMB	14,109
FAHMY, ALY	MAST CELL ENZYMES - SURGICAL HEMORRHAGIC Oozing	RO1HE 06567-07	HEM	17,087
FELTS, PHILIP W	KREBS CYCLE ACTIVITY IN KETONEGENESIS-GLUCONEOGENESIS	RO1AM 11177-02	MET	14,483
FIELD, LAMAR	BIOLOGICALLY ORIENTED ORGANIC SULFUR CHEMISTRY	RO1AM 11685-01	MCHA	40,632
FLEET, WILLIAM F, JR	VIRUS SAMPLING METHODS AND VIRUS SHEDDING IN CHILDREN	RO1AI 07752-02	VR	16,183
FLEISCHER, SIDNEY	THE STRUCTURAL AND FUNCTIONAL ROLE OF LIPIDS	RO1GM 12831-04S1	PC	3,489
FLEISCHER, SIDNEY	THE STRUCTURAL AND FUNCTIONAL ROLE OF LIPIDS	RO1GM 12831-05	PC	61,424
FOSTER, JOHN H	LIVER AND PORTAL VEIN SYSTEM	RO1HE 06016-08	SGYA	27,406
FOX, ROBERT	THE SUPPRESSION MECHANISM IN BINOCULAR RIVALRY	RO1NB 07619-05	EXP	20,884
GOSS, DONALD A	RESEARCH IN PRIMATES AND OTHER MAMMALS	PO1HD 00673-05S1	HDP	21,787
HAMILTON, ROBERT L	LIPOPROTEIN TRANSPORT IN LIVER AND BLOOD	RO1HE 11814-01	PTHA	25,332
HARRIS, THOMAS M	BIOGENESIS OF PHENOLIC COMPOUNDS	RO1GM 12848-04	MCHA	27,077
HARSHMAN, SIDNEY	CHEMICAL AND BIOLOGICAL STUDIES ON PROTEIN FRAGMENTS	RO1AI 06280-03S1	ALY	10,698
HARSHMAN, SIDNEY	SERUM MUCCOIDS IN CANCER CLINICAL AND CHEMICAL STUDY	RO1CA 10462-01	PTHB	40,953
HARTMANN, ROBERT C	CELLULAR ENZYME DEFECT IN NOCTURNAL HEMOGLOBINURIA	RO1HE 03509-11	HEM	48,353
HASH, JOHN H	STUDIES ON STAPHYLOCOCCAL METABOLISM	RO1AI 06712-04	MBC	19,914
HEIMBERG, MURRAY	HORMONAL CONTROL OF FAT METABOLISM	RO1AM 01677-11	MET	52,546
HORN, ROBERT G	LEUKOCYTE CYTOLOGY AND FUNCTION	RO1HE 10048-03S1	PTHA	1,562
HORN, ROBERT G	LEUKOCYTE CYTOLOGY AND FUNCTION	RO1HE 10048-04	PTHA	37,396
HURWITZ, LEON	DRUG ACTION ON ISOLATED SMOOTH MUSCLE	RO1AM 02235-10	PHRA	19,397
INAGAMI, TADASHI	ROLE OF SPECIFICITY SITE IN ENZYME CATALYSIS	RO1GM 14703-02	BIO	23,912
JENKINS, DAVID E, JR	HUMAN RED CELL, ANTIBODY AND COMPLEMENT INTERACTIONS	RO1AM 10545-03	ALY	13,158
JOESTEN, MELVIN D	MODELS FOR PHOSPHATE LINKAGES	RO1GM 15451-01	BBCA	25,098
KOENIG, M GLEN	HOST MECHANISMS OPERATIVE IN CHRONIC INFECTIONS	RO1AI 03082-09	BM	52,325
KONO, TETSURO	PROPERTIES OF ISOLATION SARCOLEMMMA	RO1AM 06725-07	PC	17,384
LAGEMANN, ROBERT T	BIOMEDICAL SCIENCES SUPPORT	SO5FR 07089-03	NSS	49,861
LANDON, ERWIN J	DESOXYCORTICOSTERONE AND OXIDATIVE METABOLISM	RO1AM 04703-08	GMB	37,036
LANDON, ERWIN J	RENAL MEMBRANE RECEPTORS FOR DIURETIC MERCURIALS	RO1AM 08649-05A1	PHRA	32,367
LAW, DAVID H	STUDIES ON GASTRIC INHIBITORY SUBSTANCE	RO1AM 09368-03	GM	25,616
LE QUIRE, VIRGIL S	RESPONSES OF THE VASCULAR SYSTEM TO EMBOLIZATION	RO1HE 01570-15	PTHA	39,578
LE QUIRE, VIRGIL S	PATHOGENESIS OF FAT EMBOLISM	RO1HE 10197-03	PTHA	28,256
LENHERT, P GALEN	STRUCTURE OF BIOLOGICAL MOLECULES	RO1AM 09085-05	BBCA	29,894
LERMAN, LEONARD S	MOLECULAR ASPECTS OF MUTATION	RO1GM 13767-03	BBCA	81,460
LIDDLE, GRANT W	PITUITARY-ADRENAL PHYSIOLOGY AND PHARMACOLOGY	RO1AM 05318-07	END	76,008
LIEBERT, ROBERT M	THE LEARNING OF SELF-REWARD STANDARDS BY CHILDREN	RO1HD 03573-01	DBR	15,683
MANN, GEORGE V	ATHEROGENESIS AND AGING IN PRIMATES	RO1HE 03926-10	PTHA	33,590
MC CONNELL, FREEMAN E	EXPERIMENTAL STUDIES IN HEREDITARY DEAFNESS	RO1NB 06408-03	CMS	38,284
MC KEE, LONNIE C, JR	IRON METABOLISM AND ERYTHROKINETICS	RO1AM 11165-02	HEM	30,225
MC VEIGH, ILDA	FACTORS AFFECTING THE GROWTH OF HISTOPLASMA CAPSULATUM	RO1AI 03524-06S1	BM	2,500
MENG, H C	LIPOLYTIC ENZYMES IN PLASMA AND TISSUES	RO1HE 04372-08	MET	37,502
MITCHELL, WILLIAM M	STUDIES ON THE STRUCTURE OF COLLAGEN	RO1AM 10833-02	PC	12,471
MOSIG, GISELA	GENETIC RECOMBINATION AND REPLICATION IN BACTERIOPHAGE	RO1GM 13221-03	GEN	21,055
NAJJAR, VICTOR A	CARBOHYDRATE ENZYMES AND PLASMA PROTEINS	RO1AI 06191-04	PC	110,400

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INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRG	DOLLARS
TENNESSEE—(CON.)				
NEAL, ROBERT A	A STUDY OF THIAMINE METABOLISM	RO1AM 10297-03	NTN	15,919
NEAL, ROBERT A	THE DETOXIFICATION OF PHOSPHOROTHIOATE INSECTICIDES	RO1ES 00075-03S1	TOX	305
NEAL, ROBERT A	ENZYMIC MECHANISMS OF INSECTICIDE METABOLISM	RO1ES 00075-04	TOX	22,317
NEWMAN, ELLIOT V	GENERAL CLINICAL RESEARCH CENTER	MO1FR 00095-08	CLR	736,841
NEWMAN, ELLIOT V	CIRCULATORY PHYSIOLOGY MULTI-DISCIPLINARY PROGRAM	PO1HE 08195-06	HEPA	563,672
NUNNALLY, JUM C	LEARNING OF INCENTIVE VALUE IN CHILDREN	RO1HD 03083-01	EXP	31,374
OATES, JOHN A	RESEARCH CENTER FOR CLINICAL PHARMACOLOGY AND DRUG TOX	PI1GM 15431-02	PTR	525,402
OATES, JOHN A	THE ACTION AND RELEASE OF VASOACTIVE SUBSTANCES	RO1HE 08668-05	PHRB	32,808
OATES, JOHN A	ANTIHYPERTENSIVE AGENTS-PHARMACOLOGY	RO1HE 10842-02	PHRB	25,133
PARK, CHARLES R	HORMONAL REGULATION OF METABOLISM	PO1AM 07462-05	AMP	250,766
PARK, JANE H	STUDIES ON 3-PHOSPHOGLYCERALDEHYDE DEHYDROGENASE	RO1GM 07884-08	BIO	22,260
PEARSON, WILLIAM N	STUDIES OF THIAMINE METABOLISM	RO1AM 07709-05	NTN	33,925
PEARSON, WILLIAM N	STUDIES OF IRON ABSORPTION	RO1AM 10090-03	NTN	14,224
POST, ROBERT L	THE ION-PUMP IN THE ERYTHROCYTE	RO1HE 01974-14	PHY	55,393
QUINN, ROBERT W	SIGNIFICANCE OF NON-TYPABLE GROUP A STREPTOCOCCI	RO1AI 07438-02	BM	25,820
REGEN, DAVID M	MECHANISM OF CONTROL OF LIVER CHOLESTEROL SYNTHESIS	RO1AM 09875-03	MET	13,422
SANDERS, JAY W	THE BRIEF TONE TEST IN DIAGNOSTIC AUDIOLOGY	RO1NB 07445-01	CMS	16,332
SASTRY, B V RAMA	BIOLOGICAL SIGNIFICANCE OF CHOLINESTERS OTHER THAN ACH	RO1NB 04699-05	PHRA	23,520
SCOTT, H WILLIAM, JR	GASTRIC FREEZING IN DUODENAL ULCER PATIENTS	RO1AM 07543-04	SRC	15,154
SCOTT, H WILLIAM, JR	MECHANICAL FACTORS IN ATHEROGENESIS	RO1HE 03047-12	SGYA	46,334
SCOTT, H WILLIAM, JR	COOPERATIVE STUDY OF RENOVASCULAR HYPERTENSION	RO1HE 06647-07	SRC	42,391
SCOTT, H WILLIAM, JR	INTESTINAL BYPASS IN EXPERIMENTAL ATHEROSCLEROSIS	RO1HE 11192-02	SGYA	69,789
SELL, SARAH H	NATURAL ANTIBODIES TO H. INFLUENZAE	RO1AI 06110-05	BM	30,647
SUTHERLAND, EARL W, JR	THE ACTION OF SYMPHOMIMETIC AMINES	RO1HE 08332-05S1	PHRA	21,155
SUTHERLAND, EARL W, JR	ACTION OF SYMPATHOMIMETIC AMINES	RO1HE 08332-06	PHRA	122,644
TARBELL, D STANLEY	CHEMICAL STUDIES ON ANTIBIOTICS	RO1AI 08424-01	MCHA	46,981
TOUSTER, OSCAR	PROTEIN SYNTHESIS IN TUMOR CELLS	RO1CA 07489-05	BIO	27,366
WARD, JAMES W	A STUDY OF EXTRAPYRAMIDAL PATHWAYS AND MECHANISMS	RO1NB 01954-10	PHY	19,532
WARD, PAUL H	EXPERIMENTAL STUDIES ON VESTIBULAR MECHANISMS	RO1NB 05674-04	CMS	34,807
WARD, PAUL H	TEMPORAL BONE HISTOPATHOLOGIC RESEARCH	RO1NB 05690-04	CMS	21,720
WARD, PAUL H	THE EFFECTS OF LOCAL ANESTHETICS ON THE INNER EAR	RO1NB 06363-02	CMS	19,831
WARNOCK, LAKEN G	STUDIES ON EXPERIMENTAL THIAMINE DEFICIENCY	RO1AM 10200-03	NTN	8,967
WIESMEYER, HERBERT	VIRAL INFLUENCE ON CELLULAR REGULATORY MECHANISMS	RO1AI 05254-06	MBC	25,239
WILSON, BENJAMIN J	TOXINS OF FUNGI AND MOLLY FEED DISEASE	RO1AI 07000-04	TOX	32,345
ZUKOSKI, CHARLES F	IN VITRO STUDIES ON ALLOGRAFT REJECTION	RO1AI 08169-01	IMB	16,514
INSTITUTION TOTAL	109	5,951,940		
OAK RIDGE				
OAK RIDGE ASSOCIATED UNIVERSITIES				
BALISH, EDWARD	THE MORPHOGENESIS AND PATHOGENICITY OF CANDIDA ALBICANS	RO1CA 10503-01	MBC	30,500
BIRO, EDWARD D	MANGANESE DETERMINATIONS IN BRAIN AFTER PHENOTHIAZINE	RO1AM 12746-01	PTHA	16,284
GENGOZIAN, NAZARETH	IMMUNOLOGY OF HEMATOPOIETIC CHIMERISM	RO1AM 09289-03S1	IMB	66
GENGOZIAN, NAZARETH	IMMUNOLOGY OF HEMATOPOIETIC CHIMERISM	RO1AM 09289-04	IMB	83,034
INSTITUTION TOTAL	4	129,884		
STATE TOTAL	225	10,838,690		
TEXAS				
ABILENE				
ABILENE CHRISTIAN COLLEGE				
MC CORD, TOMMY J	SYNTHESIS AND BIOLOGICAL STUDIES OF FOLIC ACID ANALOGS	RO1AM 04060-09	BIO	10,292
INSTITUTION TOTAL	1	10,292		
AUSTIN				
TEXAS UNIVERSITY OF				
AIRTH, ROBERT L	THIAMINASE ENZYMES IN ORGANISMS	RO1AM 11222-02	MBC	13,436
ALEXANDER, MARY L	GENETIC DAMAGE INDUCED BY CHEMICALS AND RADIATIONS	RO1CA 07265-05	GEN	29,586
BAULD, NATHAN L	TROPYLIUMONIUM SALTS	RO1CA 10744-01	MCHB	19,781
BIESELE, JOHN J	INVESTIGATIONS OF CHROMOSOMES	RO1GM 15875-04	GEN	36,630
BLOCH, DAVID P	STUDIES ON HISTONE METABOLISM	RO1GM 09654-07	MBY	26,385
BROWN, JAMES R	STUDIES ON PRIMARY AND TERTIARY STRUCTURE OF PROTEINS	RO1HD 02899-02	PC	18,187
BUSH, GUY L	CYTOGENETICS AND EVOLUTION OF THE TEPHRITIDAE	RO1GM 14600-02	GEN	9,350
CAPALDI, EGIDIO J	ROLE OF AFTEREFFECTS IN PARTIAL REINFORCEMENT	RO1HD 00949-06	EXP	25,609
COLLINS, MICHAEL F	CELLULAR SURFACE PROPERTIES IN DEVELOPMENT	RO1HD 02932-01	CBY	24,926
COX, DAVID J	PREFERENTIAL HYDRATION OF PROTEINS	RO1GM 11749-04A1	BBCA	16,962
GARDINER, WILLIAM C, JR	ELECTRON SPIN RESONANCE OF TRANSIENT SPECIES	RO1GM 12471-04	BBCB	23,895
HAMILTON, TERRELL H	THE CHEMODIFFERENTIATION OF THE AVIAN UROGENITAL SYSTEM	RO1HD 00726-07	CBY	19,718
HARDESTY, BOYD A	FACTORS LIMITING IN VITRO PROTEIN SYNTHESIS	RO1AM 09143-04	PC	50,083
HOARE, DEREK S	AMINO ACID BIOSYNTHESIS IN PHOTOSYNTHETIC BACTERIA	RO1AI 06447-03S1	BIO	8,290
JACOBSON, ANTOINE G	CAUSAL FACTORS IN AMPHIBIAN DEVELOPMENT	RO1HD 00725-07	CBY	22,441
JUDD, BURKE H	GENE ORGANIZATION AND FUNCTION IN DROSOPHILA	RO1GM 12334-04	GEN	36,495
JURTSUK, PETER, JR	MICROBIAL D - HYDROXYBUTYRIC DEHYDROGENASE	RO1GM 12279-04	MBC	23,869
KITTO, GEORGE B	ENZYME STRUCTURE AND ITS RELATION TO TAXONOMY	RO1AI 07853-01	MBC	18,348

TABLE 2—RESEARCH GRANTS, BY AREA, INSTITUTION, AND PRINCIPAL INVESTIGATOR

INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRG	DOLLARS
TEXAS—(CON.)				
KOJIMA, KEN-ICHI	CYTOGENETICS, POPULATION AND THEORETICAL GENETICS	P01GM 15769-01	GMP	338,203
LAGOWSKI, JEANNE M	BIOCHEM AND GENETIC ASPECTS OF PTERIDINE METABOLISM	RO1AM 09973-03	PC	13,350
LANKFORD, CHARLES E	CELLULAR DIVISION AND GROWTH CONTROL MECHANISMS	RO1HD 01840-02S1	BM	247
LANKFORD, CHARLES E	CELLULAR DIVISION AND GROWTH CONTROL MECHANISMS	RO1HD 01840-04	BM	25,096
LANKFORD, CHARLES E	VIRULENCE FACTORS AND IMMUNOGENS OF CHOLERA VIBRIOS	R22AI 08625-01	SSS	35,128
LARIMER, JAMES L	UNIT AND MULTIUNIT NEUROPHYSIOLOGY	RO1NB 05423-04	PHY	26,133
LONG, WALTER K	RED BLOOD CELL ENZYMES IN RELATION TO HUMAN DISEASES	RO1HE 04516-09	HEM	54,921
LONGENECKER, J B	PLASMA AMINO ACID STUDIES	RO1AM 08890-04	NTN	26,298
LONGENECKER, J B	EXPERIMENTAL PHENYLKETONURIA IN INFANT RATS	RO1HD 02669-02	MET	24,232
MABRY, TOM J	BIOCHEMICAL SYSTEMATIC STUDIES IN THE GENUS BAPTISIA	RO1GM 11111-05	GEN	15,674
MAGUIRE, MARJORIE P	CHROMOSOME MECHANISMS AND STRUCTURE	RO1GM 15281-01	GEN	7,039
MANDY, WILLIAM J	IMMUNOCHEMICAL PROPERTIES OF A NEW SERUM FACTOR	RO1AI 07184-03	ALY	26,201
MEYERS, JACK E	METABOLIC CONTROLS IN ALGAE	RO1GM 11300-05	PC	38,880
MYERS, JACK E	METABOLIC CONTROLS IN ALGAE	RO1GM 11300-04S1	PC	1,456
NICOL, JOSEPH A	PHOTOBIOLOGY OF MARINE ANIMALS	RO1NB 07867-01	SSS	2,710
OLIVER, CLARENCE P	GENE CONTROL OF PROTEIN STRUCTURE AND FUNCTION	RO1AM 08331-04	GEN	51,619
POWERS, E LAWRENCE	PHYSICO-CHEMICAL STUDIES OF CELLULAR RADIATION INJURY	RO1GM 13557-03	RAD	83,155
REED, LESTER J	BIOCHEMISTRY OF O-KETO ACID DEHYDROGENATION COMPLEXES	RO1GM 06590-09	BIO	54,873
RIGGS, AUSTEN F	BIOCHEMISTRY OF HEMOGLOBINS	RO1GM 05818-05	BIO	25,047
RIPPERGER, EUGENE A	TRANSIENT THERMODYNAMICS OF TISSUE	RO1GM 12469-04	SGYB	20,940
RODE, LEONARD J, JR	BACTERIAL ENDOSPORES STRUCTURE AND GERMINATION	RO1AI 07582-02	BM	15,932
ROGERS, LORENE L	BIOMEDICAL SCIENCES SUPPORT	S05FR 07091-03	NSS	94,066
SAVAGE, DWAYNE C	INFLUENCES OF NORMAL MICROFLORA ON GUT HISTOLOGY	RO1AI 08254-01	BM	26,016
SPENCE, JANET T	REINFORCEMENT CONDITIONS IN CHILDRENS LEARNING	RO1HD 01980-03	EXP	15,409
SUTTON, H ELDON	GENETIC AND CHEMICAL STUDIES OF PROTEIN VARIATIONS	RO1GM 09326-07	GEN	78,961
WAGNER, ROBERT P	STUDIES IN BIOCHEMICAL GENETICS	P01GM 12323-04	GMP	118,505
WAGNER, ROBERT P	STUDIES IN BIOCHEMICAL GENETICS	P01GM 12323-04S1	GMP	46,061
WALKER, JAMES R	REGULATION OF BACTERIAL CELL DIVISION	RO1AI 08286-01	MBG	34,250
WHEELER, MARSHALL R	EVOLUTIONARY, CHEMICAL AND RADIATION GENETICS	RO1GM 11609-05	GMP	287,703
WYSS, ORVILLE	BACTERIAL CYSTS	RO1AI 02830-09	BM	26,400
ZIEGLER, DANIEL M	THE MECHANISM OF MICROSOMAL OXYGENASES	RO1GM 12360-04	PC	38,113
INSTITUTION TOTAL	49	2,076,609		
COLLEGE STATION				
TEXAS AGRICULTURAL AND MECHANICAL UNIVERSITY				
BOTTINO, NESTOR R	LIPASE RESISTANT GLYCERIDES	RO1AM 11216-02	MET	22,435
BREUER, LESLIE H JR	ASPARAGINE BIOSYNTHESIS AND METABOLIC CONTROL IN RATS	RO1AM 11121-02	NTN	12,167
BROWN, SIDNEY O	SENSORY PERCEPTION FOLLOWING GAMMA IRRADIATION	RO1NB 05346-03S1	RAD	21,234
BROWN, SIDNEY O	DELAYED SENSORY EFFECTS OF PRENATAL IRRADIATION	RO1NB 05346-04A1	RAD	30,959
DILLON, LAWRENCE S	PHYLOGENY OF THE BRAIN	RO1NB 06525-02	NEUA	21,818
FANGUY, ROY C	CELLULAR ANTIGENS, DISEASE AND PHYSIOLOGICAL FITNESS	RO1HE 09050-17	GEN	14,640
GLEISTER, CHESTER A	LABORATORY ANIMAL RESOURCES CENTER	P06FR 00274-02	SSS	124,771
HARTLEY, HERMAN O	ESTIMATION FOR UNBALANCED FACTORIAL DATA	RO1GM 14213-02S1	SSS	519
HOWES, JAMES R	THE QUAIL QUARTERLY	P06FR 00485-01	AR	6,000
KERR, KIRKLYN M	STUDIES ON THE ROLE OF MYCOPLASMA IN HEART DISEASE	RO1AI 07978-02	ALY	32,412
MARTELL, ARTHUR E	METAL CHELATE COMPOUNDS RELATED TO VITAMIN B6	RO1AM 11694-02	BBGB	29,753
MOORE, RICHARD W	A RHEUMATOID ARTHRITIS MODEL - SWINE MYCOPLASMOSIS	RO1AM 10366-03	GM	41,437
MOORE, RICHARD W	INTESTINAL MICROORGANISMS AND ATHEROSCLEROSIS	RO1HE 10814-02	PTHA	45,583
NAGYVARY, JOSEPH	SOME NOVEL SYNTHESIS OF OLIGONUCLEOTIDES	RO1GM 16213-01	MCHA	26,988
REISER, RAYMOND	LIPID ABSORPTION, TRANSPORT AND STRUCTURE	RO1AM 06011-07	NTN	102,673
REISER, RAYMOND	CHOLESTEROL FUNCTION IN NUTRITION OF THE SUCKLING	RO1AM 10871-02	PTHA	15,356
SUTTLE, A D JR	BIOMEDICAL SCIENCES SUPPORT	S05FR 07090-03	NSS	47,889
INSTITUTION TOTAL	17	596,634		
DALLAS				
BAYLOR UNIVERSITY				
BISHOP, JACK G	CARDIOVASCULAR & METABOLIC STUDIES IN ORAL PHYSIOLOGY	RO1HE 09049-12	PHY	19,701
BISHOP, JACK G	GENERAL RESEARCH SUPPORT GRANT	S01FR 05343-07	NSS	32,623
COLLIER, RICHARD E	ADJUVANT UTERINE CANCER CHEMOTHERAPY	RO1CA 07385-05	SRC	8,355
DILL, RUSSELL E	CHEMICAL STIMULATION OF EXTRAPYRAMIDAL NUCLEI	RO1NB 07739-01	NEUB	9,540
TOMPSETT, RALPH	COMBINED ACTION OF ANTIMICROBIAL DRUGS	RO1AI 07703-02	BM	22,052
TOMPSETT, RALPH	GENERAL RESEARCH SUPPORT GRANT	S01FR 05577-04	NSS	39,261
INSTITUTION TOTAL	6	131,532		
CALLIER HEARING AND SPEECH CENTER				
MOUSHEGIAN, GEORGE	CODING OF AUDITORY STIMULI BY THE NERVOUS SYSTEM	RO1NB 07925-01	CMS	53,576
INSTITUTION TOTAL	1	53,576		
J. K. AND S. L. WADLEY RESEARCH INSTITUTE AND BLOOD CENTER				
HILL, JOSEPH M	MEDICAL COMPUTER SCIENCE LABORATORY	P07FR 00197-04	COM	44,125
SPEER, ROBERT J	NATURE AND ACTIVITY OF LIPID-PROTEIN COMPLEXES	RO1HE 09918-03	HEM	23,426
INSTITUTION TOTAL	2	67,551		

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INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRG	DOLLARS
TEXAS—(CON.)				
SOUTHERN METHODIST UNIVERSITY				
MC CARTHY, JOHN L	ADRENAL CORTICOSTEROIDOGENESIS	R01AM 05744-07	END	19,028
INSTITUTION TOTAL	1	19,028		
SOUTHWEST CENTER FOR ADVANCED STUDIES				
BAUERLE, RONALD H	MECHANISM OF GENE EXPRESSION AND ITS REGULATION	R01GM 14206-02S2	GEN	30
BAUERLE, RONALD H	MECHANISM OF GENE EXPRESSION AND ITS REGULATION	R01GM 14206-03	GEN	30,227
BREMER, HANS	IN VITRO SYNTHESIS OF RNA	R01GM 15142-02	PC	60,052
CLOWES, R C	GENERAL RESEARCH SUPPORT GRANT	SOIFR 05646-02	NSS	129,313
CLOWES, ROYSTON C	PROGRAM IN MOLECULAR BIOLOGY	P01GM 13234-03	GMP	303,007
CLOWES, ROYSTON C	EXTRACHROMOSOMAL ELEMENTS IN ENTEROBACTERIACEAE	R01GM 14394-02	GEN	74,442
HARM, WALTER F	EFFECTS OF UV GENETIC MATERIAL	R01GM 12813-03S1	GEN	126
HARM, WALTER F	EFFECTS OF UV ON GENETIC MATERIAL	R01GM 12813-04	GEN	57,955
HAUSMANN, RUDOLF L	MECHANISM OF EXCLUSION IN BACTERIOPHAGE	R01GM 14024-02	GEN	48,155
JAGGER, JOHN	PROTECTION AND RECOVERY FROM UV-DAMAGE IN BACTERIA	R01AI 06971-03	RAD	43,700
KRONE, WINFRID	BIOCHEMICAL EFFECTS OF HUMAN CHROMOSOMAL ABERRATIONS	R01HD 01733-03	GEN	21,833
LANNI, YVONNE T	STRUCTURE AND GROWTH OF BACTERIOPHAGE	R01AI 08262-02	GEN	52,722
MC CORQUODALE, D JAMES	THE TRANSFER OF BIOLOGICAL INFORMATION	R01GM 16212-01	PC	23,617
INSTITUTION TOTAL	13	845,179		
TEXAS UNIVERSITY OF				
ADAMS, REUBEN H	EFFECT OF PREGNANCY ON LIVER FUNCTION	R01HD 01176-06S1	GM	1,743
ADAMS, REUBEN H	EFFECT OF PREGNANCY ON LIVER FUNCTION	R01HD 01176-07	GM	22,226
ASHBY, EBERT A	NEUROSECRETION IN PERICARDIAL ORGANS	R01NB 06623-03	PHY	19,815
BASHOUR, FOUAD A	SPLANCHNIC HEMODYNAMICS AND HEPATIC CELL FUNCTIONS	R01HE 07739-05S1	CVA	4,618
BASHOUR, FOUAD A	SPLANCHNIC HEMODYNAMICS AND HEPATIC CELL FUNCTIONS	R01HE 07739-06	CVA	40,592
BAXTER, CHARLES R	CIRCULATORY CHANGES AND FLUID VOLUMES IN BURNS	R01HE 08771-05	SGYB	25,580
BELLI, JAMES A	RADIATION RESPONSE OF MAMMALIAN CELLS	R01CA 08162-04	RAD	44,784
BONTE, FREDERICK J	RADIOISOTOPE SCANNING OF BLOOD POOLS	R01HE 05181-08	RAD	66,989
CHAPMAN, JOHN S	CRYOGLOBULINS AND INHIBITORY FACTORS IN SARCOID SERUM	R01AI 06788-03	ALY	12,216
CLARK, WILLIAM K	MODIFICATION OF POST TRAUMATIC EPILEPSY BY DRUGS	R01NB 07447-01	NEUA	16,444
COMBES, BURTON	SPLANCHNIC HEMODYNAMICS AND SPLANCHNIC METABOLISM	R01HE 03439-11	GM	64,153
CROUT, J RICHARD	MECHANISM OF ACTION OF SYMPATHOMIMETIC AMINES	R01AM 07704-05	PHRA	25,926
CROUT, J RICHARD	EFFECT OF ANESTHETICS ON THE HEART	R01GM 14439-02	PHRA	13,093
DIETSCHY, JOHN M	INTESTINAL STEROL AND FATTY ACID SYNTHESIS	R01HE 09610-03S1	MET	33,869
DIETSCHY, JOHN M	INTESTINAL STEROL AND FATTY ACID SYNTHESIS	R01HE 09610-04	MET	51,273
EISENBERG, SEYMOUR	BLOOD VISCOSITY IN CEREBROVASCULAR & CORONARY DISEASE	R01HE 08501-04	CVA	9,336
FIELDS, WILLIAM S	CEREBROVASCULAR CLINICAL RESEARCH CENTER	P02NB 07770-01	NBPA	242,438
FIELDS, WILLIAM S	EXTRACRANIAL ARTERIAL OCCLUSION-CENTRAL REGISTRY	R01HE 11755-02	SRC	130,297
FINK, CHESTER W	COLLAGEN METABOLISM AND GROWTH	R01AM 07238-05	GMA	16,317
FORDTRAN, JOHN S	WATER AND SOLUTE MOVEMENT IN THE HUMAN INTESTINE	R01AM 06506-06	GMA	72,484
FOSTER, DANIEL W	REGULATION OF KETOGENESIS & LIPOGENESIS IN TISSUES	R01CA 08269-07	MET	30,148
FRENKEL, EUGENE P	SOUTHWESTERN CANCER CHEMOTHERAPY STUDY	R10CA 03796-10S1	SRC	16,412
GOVIER, WILLIAM C	DIGITALIS GLYCOSIDES AND MYOCARDIAL CATECHOLAMINES	R01HE 11136-01S1	PHRA	3,926
GROLLMAN, ARTHUR	STUDIES ON CARDIO-RENAL VASCULAR FUNCTION	R01HE 07916-06	CVA	25,985
GROSSMAN, ROBERT G	MICROELECTRODE STUDIES OF THE SUBSTANTIA NIGRA	R01NB 05429-04	NEUA	22,045
HOLLAND, ROBERT H	ARSENIC CARCINOGENESIS AND LUNG CANCER	R01CA 03694-11	PTHB	8,685
JOHNSON, ROBERT L, JR	PULMONARY CAPILLARY VOLUME AND MEMBRANE DIFFUSION	R01HE 07744-06	CV	33,321
JOHNSTON, JOHN M	INTESTINAL ABSORPTION OF LIPIDS	R01AM 03108-09	MET	36,499
KAPLAN, NORMAN M	THE ROLE OF RENIN AND ALDOSTERONE IN HYPERTENSION	R01HE 11639-01	GMB	48,997
LO SPALLUTO, JOSEPH J	FORMATION OF MACROGLOBULIN ANTIBODIES	R01AI 05479-05	ALY	20,314
LOUDON, ROBERT G	AIR SAMPLING FOR TUBERCLE BACILLI	R01AI 07870-01	BM	31,111
LYNN, JOHN R	A RAPID, FULL FIELD, COMPUTER-DRIVEN STATIC PERIMETER	R01NB 06774-01S1	VIS	22,220
MAC DONALD, PAUL C	MEASUREMENT OF EXTRA-GLANDULAR ESTROGEN IN THE HUMAN	R01AM 06912-06	END	47,349
MADISON, LEONARD L	HEPATIC GLUCOSE PRODUCTION, UTILIZATION AND BALANCE	R01AM 04236-08	MET	61,157
MC CANN, SAMUEL M	NEUROHUMORAL CONTROL OF THE ANTERIOR PITUITARY	R01AM 10073-03	END	74,127
MITCHELL, JERE H	HUMAN ADAPTATION TO ENVIRONMENTAL AND EXERCISE STRESS	P01HE 06296-08	HEPA	195,800
MITCHELL, JERE H	MECHANISMS OF CARDIAC CONTROL	R01HE 07717-06	CVA	33,479
MOSCATELLI, EZIO A	BIOCHEMISTRY OF SPHINGOSINE AND SPHINGOLIPIDS	R01NB 06770-02	PC	14,531
PIKE, ROBERT M	CHARACTERIZATION OF CHOLERA ANTIBODIES	R22AI 07887-02	SSS	6,646
PORTER, JOHN C	HYPOTHALAMIC CONTROL OF ACTH AND LH SECRETION	R01AM 01237-12	END	65,662
PRAGER, MORTON D	HUMAN BLOOD GROUP ANTIBODIES AND OTHER PROTEINS	R01AM 12394-01	HEM	16,350
PRITCHARD, JACK A	THE REPRODUCTIVE TRACT AND IRON DEFICIENCY	R01HD 03604-01	HED	36,707
PRITCHARD, JACK A	TRANSPLACENTAL BLEEDING IN HUMAN PREGNANCY	R01HD 03605-01	HED	13,765
PRITCHARD, JACK A	HEMATOLOGIC ALTERATIONS IN PREGNANCY	R01HE 02516-11S1	HEM	11,880
ROSENBLUM, EUGENE D	STAPHYLOCOCCAL AND STAPHYLOPHAGE GENETICS	R01AI 03093-09	BM	20,821
SANFORD, JAY P	HOST FACTORS IN CHRONIC PYELONEPHRITIS	R01HD 00851-10	ALY	63,102
SCHENKER, STEVEN	BILIRUBIN METABOLISM IN NEONATAL LIVER AND BRAIN	R01NB 05841-04	HED	29,239
SELDIN, DONALD W	REGULATION OF FLUID, ELECTROLYTE, AND ACID-BASE BALANCE	P01HE 11662-01	HEPA	235,453
SELTZER, HOLBROOKE S	NATURE OF THE DIABETIC LESION	R01AM 04708-08	MET	26,248
SHIRES, GEORGE T	PROGRAM STUDY OF THE TRAUMATIZED PATIENT	P01GM 14892-01A1	GMP	326,989
SHIRES, GEORGE T	EVALUATION OF SALINE SOLUTIONS IN THERAPY OF SHOCK	R01GM 05428-10	SGYB	59,667

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INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRG	DOLLARS
TEXAS—(CON.)				
SITERI, PENTTI K	ORIGIN OF ESTROGEN IN PREGNANCY	RO1HD 00107-05	END	63,135
SIPERSTEIN, ELEANOR R	FURTHER INVESTIGATION OF THE ACTH-PRODUCING CELLS	RO1AM 10105-03	PTHA	23,987
SIPERSTEIN, MARVIN D	CONTROL OF CHOLESTEROL SYNTHESIS KREBS CYCLE ACIDS	RO1CA 08501-04	MET	106,201
SKINNER, NEWMAN S, JR	REGULATION OF SKELETAL MUSCLE BLOOD FLOW	RO1HE 10614-02	CVB	14,125
SMILEY, JAMES D	SYNOVIAL ANTIGEN IN RHEUMATOID ARTHRITIS	RO1AM 08418-04	IMB	23,856
SPRAGUE, CHARLES C	GENERAL RESEARCH SUPPORT GRANT	SO1FR 05426-07	NSS	323,264
SRERE, PAUL A	STRUCTURES AND MECHANISMS OF CITRATE ENZYMES	RO1AM 11313-01S1	PC	3,941
SRERE, PAUL A	STRUCTURES AND MECHANISMS OF CITRATE ENZYMES	RO1AM 11313-02	PC	33,834
STEMBRIDGE, VERNIE A	ULTRASTRUCTURE & HISTOCHEMISTRY OF HUMAN NEOPLASMS	RO1CA 06368-07	PTHB	26,371
STERN, JACK	MODULATION OF HUMAN SPINAL REFLEXES	RO1NB 04300-05	NEUA	10,008
SULKIN, S EDWARD	STUDIES ON RABIES IN INSECTIVOROUS BATS	RO1AI 02316-10	VR	17,040
TAUBER, STUART D	STUDIES OF GASTRIN AND PARATHYROID HORMONE	RO1AM 10403-03	GM	27,226
TAUROG, ALVIN	THYROID FUNCTION AND IODINE METABOLISM	RO1AM 03612-09	END	33,660
TIDWELL, HERBERT C	EFFECT OF UNSATURATED FATS ON BLOOD LIPID LEVELS	RO1AM 10717-02	NTN	7,338
UNGER, ROGER H	GLUCOREGULATORY PEPTIDE HORMONES IN HEALTH AND DISEASE	RO1AM 02700-10	END	37,451
VANATTA, JOHN C	NA 24 METABOLISM STUDIES IN HYPERTENSION	RO1HE 01574-15	CVA	25,681
WEBB, WATTS R	STUDIES IN METABOLIC ARREST	RO1GM 14293-02	SGYA	59,088
WEBB, WATTS R	PROBLEMS IN CARDIOPULMONARY TRANSPLANTATION	RO1HE 08946-05	SGYB	37,110
WHALLEY, PEGGY J	ASYMPTOMATIC BACTERIURIA IN PREGNANCY	RO1HD 02840-02	BM	30,726
WILLIS, WILLIAM D, JR	SYNAPTIC CONNECTIONS OF SPINAL CORD NEURONS	RO1NB 04779-05	NEUB	31,606
WILSON, JEAN D	MECHANISM OF ACTION OF HORMONES ON PROTEIN METABOLISM	RO1AM 03892-09	MET	18,152
WILSON, JEAN D	ACTION OF HORMONES ON PROTEIN & RNA METABOLISM	RO1AM 03892-10	PC	36,845
WILSON, JEAN D	CHOLESTEROL METABOLISM IN THE INTACT ANIMAL	RO1AM 08749-04	PC	41,873
WORTHEN, HOWARD G	ENZOMORPHOLOGY OF RENAL TUBULAR MATURATION	RO1AM 11093-02	PTHA	18,320
ZIFF, MORRIS	IMMUNOLOGIC AND OTHER ASPECTS OF THE RHEUMATIC DISEASES	RO1AM 09989-03	GM	162,699
ZIFF, MORRIS	EXPERIMENTAL CLINICAL INVESTIGATION IN R A	RO1AM 12035-02	SSS	15,803
INSTITUTION TOTAL	77	3,782,168		
DENTON				
NORTH TEXAS STATE UNIVERSITY				
BROWN, RUSSELL V	EXPERIMENTAL PHENYLKETONURIA IN MICE	RO1AM 10938-02	MET	6,652
NORTON, SCOTTY J	STUDIES OF PROLYL RNA	RO1AM 07599-04S1	BIO	389
NORTON, SCOTTY J	STUDIES OF PROLYL RNA	RO1AM 07599-05	BIO	13,422
SCHOLES, VERNON E	PHOSPHORUS METABOLISM IN PREMALIGNANCY AND MALIGNANCY	RO1CA 07527-05	PTHB	22,870
TRUITT, B PRICE	SYNTHESIS OF OXAZIRIDINES FOR ANTITUMOR TESTING	RO1CA 10530-01	MCHA	18,693
INSTITUTION TOTAL	5	62,026		
TEXAS WOMAN'S UNIVERSITY				
VOSE, GEORGE P	BONE MINERAL WITH RELATION TO FRACTURING	RO1AM 02641-10	RAO	10,650
VOSE, GEORGE P	CLINICAL APPLICATIONS OF RADIOGRAPHIC DENSITOMETRY	RO1AM 07461-06	GMB	17,228
INSTITUTION TOTAL	2	27,878		
FORT WORTH				
TEXAS CHRISTIAN UNIVERSITY				
EVANS, SELBY H	SPATIAL OPERATIONS FOR A PERCEPTUAL MODEL	RO1NB 07460-02	SSS	12,286
GARDNER, EARL W	SURFACE MORPHOLOGY OF VIBRIO CHOLERAEE	R22AI 07633-02	SSS	19,799
SECRET, E LEIGH	BIOMEDICAL SCIENCES SUPPORT GRANT	SO5FR 07106-01	NSS	39,930
INSTITUTION TOTAL	3	72,015		
GALVESTON				
TEXAS UNIVERSITY OF				
ANIGSTEIN, LUDWIK	HORMONE ANTISERUM EFFECTS ON MALIGNANT GROWTH	RO1CA 08013-04	IMB	33,346
BAKER, R DAVID	PATTERNS OF ABSORPTION ALONG THE SMALL INTESTINE	RO1AM 05778-07	PHY	22,227
BASS, JOSEPH A	IMMUNIZATION AGAINST PSEUDOMONAS AERUGINOSA	RO1AI 07834-02	ALY	17,033
BLOCKER, T G, JR	GENERAL RESEARCH SUPPORT GRANT	SO1FR 05427-07	NSS	267,247
BLOCKER, TRUMAN G	TEXAS MEDICAL BRANCH RESEARCH COMPUTATION FACILITY	PO7FR 00024-04	CDM	151,560
BLOCKER, TRUMAN G, JR	GENERAL CLINICAL RESEARCH CENTER	MO1FR 00073-06	CLR	346,952
BOWMAN, BARBARA H	GENETIC CONTROL OF PROTEIN STRUCTURE	RO1HD 03321-01	GEN	23,724
BOWMAN, BARBARA H	GENETIC CONTROL OF THE STRUCTURE OF HUMAN PROTEINS	RO1HD 03321-02	GEN	61,833
BRYAN, GEORGE T	ALDOSTERONE PRODUCTION IN ADRENOGENITAL SYNDROME	RO1AM 07616-05	END	22,830
DEISS, WILLIAM P	STUDIES OF THYROGLOBULIN SYNTHESIS AND PROTEOLYSIS	RO1AM 12556-01	END	24,661
DEISS, WILLIAM P, JR	EFFECTS OF PARATHYROID HORMONE ON BONE	RO1AM 12745-01	MET	26,082
DERRICK, JOHN R	VASOPRESSOR ACTION DURING HEMORRHAGE AND HYPONATREMIA	RO1HE 10935-02	SGYB	24,340
DODGE, WARREN F	ACUTE GLOMERULONEPHRITIS: COURSE AND PROGNOSIS	RO1AM 08430-06	PTHA	21,152
DUNCAN, DONALD	ELECTRON MICROSCOPY OF THE NERVOUS SYSTEM	RO1NB 00690-14	CBY	27,450
EWERT, ADAM	DISTRIBUTION OF BRUGIA MALAYI IN VERTEBRATE HOSTS	R22AI 08260-01	SSS	15,023
FISH, JAY C	LYMPHOCYTE DEPLETION AND HOMOGRAF SURVIVAL	RO1AM 11143-02	IMB	26,279
GOLDMAN, ARMOND S	CELLS OF HUMAN CLOSTRUM IMMUNOLOGIC PROPERTIES	RO1HD 02966-01A1	IMB	28,928
GOODALL, MC CHESNEY	ORTHOSTATIC POSTURAL HYPOTENSION	RO1HE 11294-02	GMB	37,664
GUEST, M MASON	PROGRAM PROJECT RESEARCH IN HEMATOLOGY AND RHEOLOGY	PO1HE 10893-02	SSS	249,097
HALL, CHARLES E	MACROMOLECULES AND HYPERTENSIVE VASCULAR DISEASE	RO1HE 08054-05	CVB	19,896
HALL, CHARLES E	HORMONAL & DIETARY MODIFICATION OF NACL TOXICITY	RO1HE 09911-03	END	15,884
HILD, WALTHER J	TISSUE CULTURE OF NERVOUS TISSUE	RO1NB 03114-07S1	CBY	20,353
JENNINGS, F LAMONT	ELECTRON MICROSCOPIC STUDIES IN PATHOLOGY	RO1CA 04207-10	PTHA	17,628

TABLE 2—RESEARCH GRANTS, BY AREA, INSTITUTION, AND PRINCIPAL INVESTIGATOR

INVESTIGATOR	PROJECT TITLE	GRANT NO	IRG	DOLLARS
TEXAS—(CON.)				
KOENIG, VIRGIL L	SOLUBLE PROTEINS OF THE CRYSTALLINE LENS	RO1NB 05456-04	BBCB	23,680
LEVIN, WILLIAM C	SOUTHWEST CANCER CHEMOTHERAPY STUDY	R10CA 03096-11	SRC	64,051
LEWIS, STEPHEN	SURGICAL SEQUELAE OF THERMALTRAUMA	RO1GM 10903-05S1	SGYB	532
LEWIS, STEPHEN	SURGICAL SEQUELAE OF THERMALTRAUMA	RO1GM 10903-06	SGYB	38,715
MILLS, GORDON C	PHYSIOLOGICAL REGULATION OF ERYTHROCYTE METABOLISM	RO1HE 02579-12	HEM	19,469
NEAL, JACK	ATMOSPHERIC CARCINOGENS IN A DENSE PETROCHEMICAL AREA	RO1CA 08147-04	PTHB	17,208
NEWMAN, FRANK S	PHAGE-HOST RELATIONSHIPS IN VIBRIO CHOLERAE	RO1AI 07309-03	BM	8,505
NOWINSKI, KURT W	CYTOCHEMISTRY OF RENAL COMPENSATORY HYPERTROPHY	RO1HE 07961-06	PTHB	25,639
NOWINSKI, WIKTOR W	WORKSHOP CONFERENCE COMPENSATORY RENAL HYPERTROPHY	R13HE 11895-01	NSS	10,140
OLSON, LEROY J	DIAGNOSIS AND PATHOGENESIS OF VISCERAL LARVA MIGRANS	RO1AI 02732-10	TMP	22,138
RAPPOPORT, DONALO A	FISH BRAIN RNA CHANGES DURING OLFACTORY STIMULATION	RO1NB 07707-01	NEUB	22,520
REMMERS, AUGUST R	THE PYELOGRAM UREA WASHOUT TEST IN RENAL HYPERTENSION	RO1HE 09189-03S1	CVA	1,032
RODIN, ALVIN E	RELATIONSHIP OF PINEAL TO TUMOR GROWTH	RO1CA 07882-04	PTHB	9,925
SARLES, HARRY E	SODIUM EXCRETION IN HYPERTENSIVE PREGNANT PATIENTS	RO1HE 09183-03S1	CVA	1,586
SARLES, HARRY E	THE DIALYSIS OF LYMPH IN CHRONIC RENAL FAILURE	RO1HE 09955-02S1	SGYA	8,016
SCHNEIDER, ROSE G	HEMOGLOBIN VARIANTS IN RELATION TO DISEASE	RO1AM 00780-17	HEM	66,621
SHETLAR, M R	PARATHYROID AND MUCOPOLYSACCHARIDES	RO1AM 11418-02	GMB	21,981
SHETLAR, MARVIN R	GLYCOPROTEINS AND MUCOPOLYSACCHARIDES OF TUMOR TISSUE	RO1CA 10222-03	PC	22,390
SMITH, LELAND L	ORIGINS OF ATHEROSCLEROSIS	RO1HE 10160-02S1	MET	914
SMITH, LELAND L	ORIGINS OF ATHEROSCLEROSIS	RO1HE 10160-03	MET	15,420
STUBBS, DONALD W	CONTROL OF ALDONOLACTONASE ACTIVITY BY SOMATOTROPIN	RO1AM 09669-03	MET	7,598
TRAVIS, LUTHER B	PATHOGENESIS OF GROWTH ONSET DIABETES	RO1AM 07736-05	MET	18,703
TRAVIS, LUTHER B	PATHOGENESIS OF STEROID-RESISTANT NEPHROSIS	RO1AM 11282-02	PTHA	55,670
VERWEY, WILLARD F	ISOLATION OF PROTECTIVE ANTIGEN FROM VIBRIO COMMA	RO1AI 04602-07	ALY	33,996
VERWEY, WILLARD F	THE PREPARATION OF IMPROVED CHOLERA VACCINES	R22AI 07630-02	SSS	53,414
WILLIAMS, ROGER D	FLUID AND PROTEIN SHIFTS WITH VARIOUS FLUID INFUSIONS	RO1HE 10599-03	SGYB	9,823
YATES, ROBERT D	ELECTRON MICROSCOPY-STEROID PRODUCING CELLS	RO1AM 08222-05	CBY	14,961
YATES, ROBERT D	MICROSCOPIC STUDIES, CAROTID BODY	RO1NB 05665-04	NEUB	7,842
INSTITUTION TOTAL	51 2,103,678			
HOUSTON				
BAYLOR UNIVERSITY				
ALEXANDER, JAMES K	CIRCULATION AND RESPIRATION IN OBESITY	RO1HE 03006-12	CVA	23,140
ALFORD, BOBBY R	NEUROPHYSIOLOGIC STUDIES OF THE AUDITORY SYSTEM	RO1NB 04099-05S1	CMS	13,671
BAR-SELA, MILDRED E	STUDIES ON THE NEURAL CONTROL OF PUBERTY	RO1NB 04645-06	END	29,963
BLATTNER, RUSSELL J	GENERAL CLINICAL RESEARCH CENTER FOR CHILDREN	MO1FR 00188-04	CLR	210,785
BLATTNER, RUSSELL J	STUDY OF MECHANISM OF THALIDOMIDE DEFECTS	RO1HD 01916-03	HED	22,411
BLATTNER, RUSSELL J	SOUTHWESTERN CANCER CHEMOTHERAPY STUDY	R10CA 03161-11	SRC	33,906
BLEVINS, CHARLES E	TYMPANIC AND LARYNGEAL MUSCLE INNERVATION PATTERNS	RO1NB 06625-02S1	CMS	1,433
BRADFORD, F KEITH	SUBARACHNOID AND SUBDURAL HEMORRHAGE	RO1NB 01919-09	NEUA	2,461
BRESNICK, EDWARD	TRANSCRIPTION AND TRANSLATION PROCESSES IN FETAL LIVER	RO1CA 10290-02	BIO	15,438
BUSCH, HARRIS	NUCLEAR PROTEINS, THE TUMOR NUCLEOLUS AND MESSENGER RNA	RO1CA 08182-04	PC	154,070
CALEY, DAVID W	MORPHOLOGY OF NERVE TISSUES DEVELOPMENT AND FUNCTION	RO1NB 07450-01	NEUB	34,869
COATS, ALFRED C	RECORDED BODY SWAY IN EVALUATION OF EQUILIBRIUM	RO1NB 07715-01	CMS	17,687
CRAWFORD, E STANLEY	EXTRACRANIAL ARTERIAL OCCLUSION-JOINT STUDY	RO1HE 04763-09	SRC	17,855
CRITCHLOW, B VAUGHN	NEURAL MECHANISMS AND CYCLIC PITUITARY FUNCTIONS	RO1AM 03385-09	END	44,014
DE BAKEY, MICHAEL E	CARDIOVASCULAR & LIPID CLINICAL RESEARCH CENTER	PO2HE 05435-08	HEP	2,990,837
DE BAKEY, MICHAEL E	CARDIOVASCULAR SURGICAL INVESTIGATIONS	RO1HE 03137-10S1	SGYA	77,645
DELMONTE, LILIAN	TUMOR-HOST RELATIONSHIP IN MOUSE LEUKEMOID REACTIONS	RO1CA 07788-04S1	PTHB	4,123
DELMONTE, LILIAN	TUMOR-HOST RELATIONSHIP IN MOUSE LEUKEMOID REACTIONS	RO1CA 07788-05	PTHB	61,786
DI FERRANTE, NICOLA M	STUDY OF ACID MUCOPOLYSACCHARIDES	RO1AM 10811-03	GMA	63,977
EIBAND, JOHN M	PREVENTION OF HEPATITIS AFTER CARDIOVASCULAR SURGERY	RO1HE 10224-02	SRC	16,780
FELDMAN, GERALD L	THE LIPIDS IN EXPERIMENTALLY-INDUCED CATARACTS	RO1NB 04277-07	PC	43,844
FERNBACH, DONALD J	CLINICAL INVESTIGATION OF PEDIATRIC NEOPLASIA	PO1CA 07357-05	PHRB	106,969
FREEDMAN, DAVID A	EGO FORMATION OF CONGENITAL SENSORY DEFICITS	RO1HD 02763-02	DBR	35,355
FREEMAN, ROBERT G	PHOTOSENSITIZATION OF THE EYE	RO1NB 03689-07	VIS	24,145
GEROW, FRANK J	INVESTIGATION OF SILICONE IMMERSION BURN THERAPY	RO1GM 11856-05	SGYA	40,836
GHIDONI, JOHN J	FORMATION OF CELLULAR PSEUDOINTIMAS	RO1HE 11277-02	SGYA	24,603
GUILFORD, FREDERICK R	SOUTHERN TEMPORAL BONE BANKS RESEARCH CENTER	RO1NB 06593-03	CMS	11,467
GUILLEMIN, ROGER C	HYPOTHALAMIC NEUROHUMORS AND PITUITARY FUNCTION	RO1AM 08290-05	END	132,929
GYORKEY, FERENC	ZINC IN THE NORMAL AND DISEASED PROSTATE	RO1CA 10646-01	PTHB	22,141
HETTIG, ROBERT A	SOUTHWESTERN CANCER CHEMOTHERAPY STUDY	R10CA 03392-11	SRC	32,594
HOFF, HEBBEL E	STUDIES IN THE HISTORY OF PHYSIOLOGY	RO1LM 00453-02	HM	7,682
HORNING, EVAN C	RESEARCH IN ANALYTICAL BIOCHEMISTRY FOR HUMAN STUDIES	PO1GM 13901-02	GMP	257,266
HORNING, MARJORIE G	RESEARCH ON TOXICOLOGICAL PROBLEMS OF DRUGS	PO1GM 16216-01	PTR	503,524
HUGGINS, RUSSELL A	FLUID COMPARTMENTS FROM BIRTH TO MATURITY	RO1HE 11395-01	HED	40,725
IGARASHI, MAKOTO	PARTIAL ABLATION OF VESTIBULAR SYSTEM AND EQUILIBRIUM	RO1NB 07237-01S1	CMS	696
IGARASHI, MAKOTO	PARTIAL ABLATION OF VESTIBULAR SYSTEM AND EQUILIBRIUM	RO1NB 07237-02	CMS	23,132
JORDAN, PAUL H, JR	GASTRIC SECRETION CONTROLLING MECHANISMS	RO1AM 09399-03S1	GMA	8,107
JORDAN, PAUL H, JR	GASTRIC SECRETION CONTROLLING MECHANISMS	RO1AM 09399-04	GMA	23,217
KELLAWAY, PETER	THE ORIGIN AND MECHANISM OF CORTICAL RHYTHMS	RO1NB 02468-09	NEUA	20,592
KIT, SAUL	BIOCHEMICAL ASPECTS OF VIRAL CARCINOGENESIS	RO1CA 06656-06	VR	146,021
KNOX, JOHN M	RESPONSE OF SKIN TO MONOCHROMATIC LIGHT	RO1CA 08408-03	GM	31,903

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INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRG	DOLLARS
TEXAS—(CON.)				
LANE, MONTAGUE	INDUCTION AND EFFECTS OF HUMAN RIBOFLAVIN DEFICIENCY	RO1CA 05630-07	NTN	27,707
LIEBELT, ROBERT A	ROLE OF ADIPOSE TISSUE IN LIPOGENESIS	RO1AM 01230-12	MET	36,147
LIEBELT, ROBERT A	HORMONAL FACTORS IN MOUSE NEOPLASIA	RO1CA 04517-09	END	39,595
LIEBELT, ROBERT A	URETHAN CARCINOGENESIS IN MICE	RO1CA 06240-07	PTHB	18,439
LIPSCOMB, HARRY S	DIRECT MEASUREMENT OF PLASMA ACTH	RO1AM 04122-07	END	26,758
MAZOW, JACK B	IMMUNOLOGIC STUDIES OF RESPIRATORY MUCOSA AND SPUTUM	RO1AI 06963-02	IMB	11,321
MELNICK, JOSEPH L	BASIC AND APPLIED STUDIES IN HUMAN VIROLOGY	PO1AI 05382-05	AIP	180,000
MELNICK, JOSEPH L	POSSIBLE ROLE OF VIRUSES IN HUMAN CANCER	RO1CA 04600-10	VR	194,164
MERRILL, JOSEPH M	GENERAL CLINICAL RESEARCH CENTER - CHRONIC	MO1FR 00129-05	CLR	121,106
MERRILL, JOSEPH M	GENERAL CLINICAL RESEARCH CENTER	MO1FR 00134-04	CLR	231,767
MERRILL, JOSEPH M	GENERAL CLINICAL RESEARCH CENTER	MO1FR 00350-02	CLR	388,992
MERRILL, JOSEPH M	GENERAL RESEARCH SUPPORT GRANT	SO1FR 05425-07	NSS	409,052
NICHOLS, BUFORD L	ELECTROLYTE PHYSIOLOGY IN MALNOURISHED INFANTS	RO1AM 11285-02	GMB	21,153
O NEAL, ROBERT M	INTESTINAL MICROORGANISMS AND ATHEROSCLEROSIS	RO1HE 10813-02	PTHA	5,600
PERRY, J H	STRUCTURE AND FUNCTION OF THE HYPOTHALAMUS	RO1NB 01032-12	PTHA	34,136
PRUITT, RAYMOND D	CARDIOVASCULAR & LIPID CLINICAL RESEARCH CENTER	PO2HE 05435-07S1	HEPB	319,051
RABIN, ERWIN R	VIRAL HEPATITIS IN LIVER ORGAN CULTURE	RO1AI 08536-01	VR	22,173
RAPP, FRED	STUDY OF THE REPLICATION OF VIRUSES	RO1CA 10036-07	VR	31,074
SABAWALA, PHIROZE B	MUSCLE RELAXANTS IN SURGERY OF THE NEWBORN	RO1GM 14874-02	PHRA	12,355
SCHINDLER, WILLIAM J	FETAL AND NEONATAL PITUITARY-THYROID PHYSIOLOGY	RO1HD 02200-01A1	END	26,965
SCHWARTZ, ARNOLD	ION TRANSPORT IN CARDIAC MUSCLE	RO1HE 07906-06	PHRA	32,384
SCOTT, F BRANTLEY	MICTURITION STUDIES AFTER SPINAL CORD INJURY	RO1NB 03751-06	SGYA	31,605
SHARP, JOHN T	STREPTOCOCCI, PPLO AND L FORMS IN RHEUMATIC DISEASES	RO1AM 06450-06	ALY	44,367
SHARP, JOHN T	STUDY OF THE NATURAL HISTORY OF RHEUMATOID ARTHRITIS	RO1AM 12042-02	SSS	21,092
SOUTH, MARY A	THE IGA LOCAL ANTIBODY SYSTEM OF MUCOUS SURFACES	RO1AI 08227-02	ALY	15,187
SPENCER, WILLIAM A	III B U C M COMPUTATIONAL RESEARCH CENTER PROGRAM	PO7FR 00259-03S1	COM	205,872
SPJUT, HARLAN J	DRUG INDUCED COLONIC POLYPS AND CARCINOMAS IN RATS	RO1CA 06828-07	PTHB	29,331
STANTON, HUBERT C	ADRENERGIC BLOCKADE AND CARDIOVASCULAR FUNCTION	RO1HE 10521-03	PHRA	19,689
TRENTIN, JOHN J	IRRADIATION PROTECTION AND HISTOCOMPATIBILITY	RO1CA 03367-12	IMB	103,938
TRENTIN, JOHN J	ONCOGENIC EFFECTS AND ROLE OF HUMAN VIRUSES IN CANCER	RO1CA 06941-06	VR	294,213
VICK, ROBERT L	A CELLULAR BASIS OF CARDIAC ARRHYTHMIA	RO1HE 08372-05	PHY	11,043
WAGNER, JACKSON W	SEXUAL DIFFERENTIATION OF NEUROENDOCRINE SUBSTRATES	RO1HD 01630-03	END	16,243
WATT, THOMAS B, JR	FOCAL BLOCK STUDIES OF HIS-BUNDLE PATHWAYS	RO1HE 10400-02S1	CVA	314
WILLIAMS, ROBERT P	IRON, PEPTIDES AND VIRULENCE RELATIONSHIPS IN ANTHRAX	RO1AI 01535-11	BM	22,843
YOW, MARTHA D	THE ETIOLOGY OF INFANTILE DIARRHEA	RO1AI 02963-09	BM	56,271
INSTITUTION TOTAL	76 8,436,546			
HOUSTON SPEECH AND HEARING CENTER				
JERGER, JAMES F	AUDIOLOGIC CORRELATES OF CENTRAL AUDITORY DISORDERS	RO1NB 05044-05	CMS	31,873
INSTITUTION TOTAL	1 31,873			
HOUSTON UNIVERSITY OF				
CATES, LINDLEY A, JR	PHOSPHAMIDE-PHOSPHAMIDASE INTERACTION VITRO-VIVO	RO1CA 08711-03	PHRB	8,623
GRATCH, GERALD	PIAGETS THEORY OF INFANTS OBJECT CONCEPTS	RO1HD 03181-01	DBR	24,873
INSTITUTION TOTAL	2 33,496			
MEDICAL ARTS PUBLISHING FOUNDATION				
CUMLEY, RUSSELL W	ONCOLOGICAL WORD BANK	RO1CA 10182-01S1	CSP	46,734
CUMLEY, RUSSELL W	ONCOLOGICAL WORD BANK	RO1CA 10182-02	BCM	119,087
INSTITUTION TOTAL	2 165,821			
RICE UNIVERSITY				
ANSEVIN, KRYSZYNA D	NUCLEAR CHANGES DURING CELL DIFFERENTIATION	RO1HD 01662-02	MBY	14,125
BAHLER, ALAN S	IMPLANTABLE ARTIFICIAL CIRCULATORY PUMPING SYSTEMS	PO1HE 09251-05	SSS	236,273
CAMPBELL, JAMES W	NITROGEN METABOLISM IN MOLLUSCS	RO1AI 05006-05	TMP	20,056
ELBEIN, ALAN D	BIOSYNTHESIS OF UNUSUAL CARBOHYDRATES IN BACTERIA	RO1AI 07738-02	MBC	17,472
GORDON, WILLIAM E	SO5FR 07103-02	NSS	65,870
PHILPOTT, CHARLES W	ION TRANSPORT AND POLYANIONS OF THE CELL SURFACE	RO1GM 13516-03	MBY	26,833
READ, CLARK P	CHEMICAL BASIS OF PARASITISM	RO1AI 01384-11	TMP	42,448
STEVENS, ROBERT V	TOTAL SYNTHESIS OF VINDOLINE	RO1CA 10390-01	MCHA	26,213
STORCK, ROGER L	RIBOSOMES IN MOLDS MORPHOLOGY	RO1AI 07804-02	BM	33,045
STORCK, ROGER L	INTEGRATED PROGRAM IN THE SCIENCES BASIC TO HEALTH	SO4FR 06136-01	NSS	325,000
SUBTELNY, STEPHEN	THE NUCLEUS IN DIFFERENTIATION AND EMBRYOGENESIS	RO1CA 11087-01	CBY	19,830
TURNER, RICHARD B	TOTAL SYNTHESIS OF SELECTED NATURAL PRODUCTS	RO1CA 08956-02	MCHA	19,916
WALKER, JAMES B	METABOLISM OF GUANIDINO COMPOUNDS	RO1GM 12807-05	PC	37,356
INSTITUTION TOTAL	13 884,437			
TEXAS MEDICAL CENTER				
EASTWOOD, RICHARD T	REGIONAL COMPUTER FACILITY AT THE TEXAS MEDICAL CENTER	PO7FR 00254-03S1	COM	299,635
INSTITUTION TOTAL	1 299,635			
TEXAS SOUTHERN UNIVERSITY				
SADLER, WILLIAM A	SURVIVAL AND FUNCTION OF ENDOCRINE ALLOGRAFTS	RO1AM 08079-05	IMB	14,706
INSTITUTION TOTAL	1 14,706			

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INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRG	DOLLARS
TEXAS—(CON.)				
TEXAS UNIVERSITY OF				
ALEXANIAN, RAYMOND	BONE MARROW KINETICS	R01AM 09155-04	HEM	24,936
ALEXANIAN, RAYMOND	SOUTHWEST CANCER CHEMOTHERAPY STUDY	R10CA 03195-11	SRC	23,623
ANDERSON, DAVID E	GENETICS OF SKIN TUMORS	R01CA 08381-03	GEN	36,828
BELL, WILLIAM H	SURGICAL-ORTHODONTICS AND BONE HEALING	R01DE 02664-02	DEN	28,998
BENOLKEN, ROBERT M	VISUAL MECHANISMS	R01NB 08326-01	VIS	13,919
BEVELANDER, GERRIT	CYTOPHYSIOLOGY AND E M STRUCTURE OF MINERALIZING CELLS	R01DE 01825-06	OEN	33,582
BOWEN, JAMES M	STUDIES ON DNA VIRUS-CELL GENOME INTERACTIONS	R01CA 10242-02	VR	38,456
BROWNING, HENRY C	HORMONAL CONTROL OF NORMAL AND NEOPLASTIC TISSUES	R01CA 02880-13	END	29,023
BURDETTE, WALTER J	ONCOGENIC VIRUSES, CHROMOSOMAL ABERRATIONS, AND MUTATION	R01CA 08910-02	GEN	40,178
BURDETTE, WALTER J	MECHANISM OF TUMORIGENESIS	R01CA 10037-03	PTHB	89,632
BURDETTE, WALTER J	METABOLISM OF CARDIAC MUSCLE DURING ARREST	R01HE 10901-02	PC	15,440
CHANG, JEFFREY P	CHEMICAL AND HISTOCHEMICAL STUDIES OF CARCINOGENESIS	R01CA 05312-08	PTHB	31,998
CLARK, R LEE	CANCER CLINICAL RESEARCH	P02CA 05831-07	SSS	718,300
CLARK, R LEE	II BIOMEDICAL COMPUTATION AT THE UNIVERSITY OF TEXAS	P07FR 00258-03S1	COM	200,579
CLARK, R LEE	ANNUAL SYMPOSIUM ON FUNDAMENTAL CANCER RESEARCH	R13CA 10507-01A1	MBY	16,968
CLARK, R LEE	TENTH INTERNATIONAL CANCER CONGRESS-HOUSTON, 1970	R13CA 10898-01	NSS	50,000
CLARK, R LEE	GENERAL RESEARCHUPPORT GRANT	S01FR 05511-06	NSS	453,705
FLETCHER, GILBERT H	EXTENSION OF RADIOTHERAPY RESEARCH	P02CA 06294-07	RAD	202,406
FLETCHER, GILBERT H	ESTABLISHMENT OF CLINICAL RADIOTHERAPY RESEARCH UNIT	P02CA 10006-02	RAD	101,655
FLETCHER, GILBERT H	EVALUATION OF SUPERVOLTAGE THERAPY	R01CA 05654-08	RAD	20,617
FLETCHER, GILBERT H	INITIATION & DEVELOPMENT OF RADIOTHERAPY STUDIES	R01CA 07913-04S1	NSS	18,325
FLETCHER, GILBERT H	INITIATION & DEVELOPMENT OF RADIOTHERAPY STUDIES	R01CA 07913-05	NSS	20,000
FREI, EMIL III	PROTECTED ENVIRONMENT AND CANCER	R10CA 10042-03	NSS	230,120
FREIREICH, EMIL J	SOUTHWEST COOPERATIVE CHEMOTHERAPY GROUP	R10CA 10376-01	SRC	51,977
HAMPTON, JOHN K, JR	THE PERIODONTIUM AND EXPERIMENTAL SIMIAN BONE DISEASE	R01DE 02791-01	GMB	31,411
HAMPTON, JOHN K, JR	BIOLOGY OF THE PINCHE (OEDIPOMIDAS OEDIPUS)	R01HE 10986-02	SSS	22,362
HART, JACQUELINE S	LYMPHOMA TASK FORCE, ADMINISTRATIVE-RESEARCH SUPPORT	R10CA 10892-01	SRC	16,696
HNILICA, LUBOMIR S	PROTEINS OF THE CELL NUCLEUS	R01CA 07746-05	PC	52,481
HOWE, CLIFTON D	SOUTHWEST COOPERATIVE CHEMOTHERAPY GROUP	R10CA 06444-07	SRC	53,183
HSU, T C	FINE STRUCTURE STUDIES ON NUCLEAR COMPONENTS	R01GM 15887-03	MBY	42,154
HUMPHREY, RONALD M	RADIATION RESPONSE OF IN VITRO MAMMALIAN CELLS	R01CA 04484-10	RAD	41,162
HUTCHINS, MAX O	THYROID-SOMATOTROPHIN RELATIONSHIPS IN NEONATES	R01HD 03066-01	END	21,408
JARDINE, JOHN H	RESEARCH ANIMAL FACILITY INSTITUTIONAL RESOURCE	P06FR 00403-01	AR	315,097
JIRGENSONS, B	CHARACTERIZATION OF PLASMA AND URINARY PROTEINS	R01CA 01785-16	BBCA	64,184
LEVY, BARNET M	THE BIOLOGY OF THE PERIODONTIUM IN HEALTH AND DISEASE	P01DE 02232-03	DEP	232,104
LEVY, BARNET M	CONFERENCE ON THE USE OF PRIMATES IN DENTAL RESEARCH	R13DE 02687-01	NSS	6,885
LUCE, JAMES K	SOUTHWEST COOPERATIVE CHEMOTHERAPY GROUP	R10CA 10379-01	SRC	28,665
LUND, PAUL K	X-RAY FLUORESCENCE STUDIES OF BIOLOGICAL MATERIALS	R01GM 16229-01	BBC	59,415
MANDEL, MANLEY	REGULATION OF DNA SYNTHESIS AND CELL DIVISION	R01CA 10763-01	CBY	45,587
MOORE, E COLLEEN	BIOSYNTHESIS AND ROLE OF DEOXYNUCLEOTIDES	R01CA 04464-10	PC	43,806
MOUNTAIN, CLIFTON F	COOPERATIVE LUNG STUDY PROGRAM	R01CA 07200-05	SRC	2,575
OLSON, JOHN V	GENERAL RESEARCH SUPPORT GRANT	S01FR 05344-07	NSS	118,004
ORENGO, ANTONIO	CONTROL OF ANABOLISM OF PYRIMIDINE RIBO-NUCLEOSIDES	R01CA 10407-01	MBY	29,731
ROSE, GEORGE C	HELICAL AND RELATED MEGAMOLECULES PRODUCED IN VITRO	R01CA 10790-01	BBC	12,145
ROSE, GEORGE C	A STUDY OF LIVING NUCLEI AND GOLGI ZONES IN ORAL CELL	R01DE 01547-07	PTHB	18,480
RUSSELL, WILLIAM O	RESEARCH CLINICAL PATHOLOGY PROGRAM IN CANCER	R01CA 06939-05	SSS	776,733
SCHLAMOWITZ, MAX	BIOCHEMICAL AND IMMUNOCHEMICAL STUDIES OF PEPSIN	R01AM 09322-05	PC	28,114
SHAW, CHARLES R	GENETIC AND COMPARATIVE STUDIES OF ENZYMES	R01GM 15597-01	GEN	69,709
SHAW, MARGERY W	STRUCTURE AND FUNCTION OF HUMAN CHROMOSOMES	R01GM 15361-01	GEN	74,466
SHIVELY, JOHN A	PHYSIOLOGY OF PLATELETS AND THEIR ROLE IN THERAPY	R10CA 08859-02	SRC	142,519
SIMPSON, JOHN W	STUDIES IN GINGIVAL METABOLISM	R01DE 02743-01	DEN	27,291
SINKOVICS, JOSEPH G	A COMPARISON OF MURINE AND HUMAN LEUKEMIA	R01CA 07923-04	VR	60,272
SPERLING, HARRY G	EXCITABILITY OF VISUAL PATHWAYS	R01NB 07608-01S1	VIS	9,990
SPERLING, HARRY G	EXCITABILITY OF VISUAL PATHWAYS	R01NB 07608-02	VIS	39,534
SUIT, HERMAN D	MODIFICATION OF TUMOR RESPONSE TO LOCAL IRRADIATION	R01CA 05047-09	RAD	57,346
SUIT, JOAN L	METABOLIC EVENTS DURING MICROBIAL GENOME INTERACTIONS	R01GM 12433-04	GEN	22,117
TAYLOR, A CECIL	REACTION OF CELLS TO CONTACT WITH THE TOOTH SURFACE	R01DE 02400-02S1	DEN	13
TAYLOR, A CECIL	REACTION OF CELLS TO CONTACT WITH THE TOOTH SURFACE	R01DE 02400-03	DEN	10,822
TAYLOR, GRANT	SOUTHWEST CANCER CHEMOTHERAPY STUDY	R10CA 03713-10S1	SRC	984
TAYLOR, GRANT	SOUTHWEST CANCER CHEMOTHERAPY PEDIATRICS	R10CA 03713-11	SRC	60,789
TAYLOR, GRANT	SOUTHWEST CANCER CHEMOTHERAPY STUDY	R10CA 03754-11	SRC	149,432
TAYLOR, H GRANT	SOUTHWEST CANCER CHEMOTHERAPY STUDY GROUP	R10CA 03754-10S1	SRC	35,233
WALBORG, EARL F, JR	SEPARATION AND QUANTITATION OF SACCHARIDES	R01AM 10130-02S1	PC	4,192
WARD, DARRELL N	THE CHEMISTRY OF LUTEINIZING HORMONE	R01AM 09801-03	END	58,112
WISWELL, OZRO B	HORMONAL CONTROL OF ENDOCRINES IN SUBHUMAN PRIMATES	R01HD 01887-02S1	END	5,461
WISWELL, OZRO B	HORMONAL CONTROL OF ENDOCRINES IN SUBHUMAN PRIMATES	R01HD 01887-03	END	17,881
INSTITUTION TOTAL	66	5,399,810		

TABLE 2—RESEARCH GRANTS, BY AREA, INSTITUTION, AND PRINCIPAL INVESTIGATOR

INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRG	DOLLARS
TEXAS—(CON.)				
SAN ANTONIO				
SANTA ROSA MEDICAL CENTER				
COOPER, ELMER E	COOPERATIVE STUDY OF DRUGS AND CORONARY HEART DISEASE	R01HE 11660-01S1	SRC	12,410
COOPER, ELMER E	COOPERATIVE STUDY OF DRUGS AND CORONARY HEART DISEASE	R01HE 11660-02	SRC	76,694
INSTITUTION TOTAL	2	89,104		
SOUTHWEST FOUNDATION FOR RESEARCH AND EDUCATION				
AXELROD, LEONARD R	STUDIES IN STEROID INTERMEDIATE METABOLISM	R01AM 03270-09	END	86,019
BUSS, DAVID H	SYNTHESIS OF FLUORONUCLEOSIDES	R01CA 10304-02	MCHA	20,881
CHYTIK, FRANK	ENZYMES IN DEVELOPMENT	R01HD 03127-01	PC	60,285
DAMIAN, RAYMOND T	SCHISTOSOME IMMUNITY MECHANISMS IN THE BABOON	R22AI 08398-01	SSS	44,537
GOLDZIEHER, JOSEPH W	BASIC STUDIES OF CLINICAL STEROID ABNORMALITIES	R01AM 03269-09	END	85,075
HENDRICKX, ANDREW G	STUDIES OF MALFORMATIONS IN EARLY HUMAN EMBRYOS	R01HD 02842-01	HED	11,550
KALTER, S S	REFERENCE CENTER FOR THE STUDY OF PRIMATE VIRUSES	P06FR 00361-02	PME	149,100
PURDY, ROBERT H	CHEMISTRY OF THYROXINE BINDING PROTEINS FROM PLASMA	R01AM 09633-04	PC	62,529
REED, O M	STUDIES OF THE DENTITION AND ORAL CAVITY OF PRIMATES	R01DE 02073-03	DEN	15,769
VAGTBORG, HAROLD	STUDY OF BIOLOGICAL PROFILES OF SELECTED PRIMATES	P01GM 13252-03	GMP	553,121
VAGTBORG, HAROLD	RESOURCES FOR STUDY OF BIOLOGICAL PROFILES OF SELECTED P.....	P06FR 00278-03	PME	406,212
VAGTBORG, HAROLD	P06FR 00451-04	PME	285,834
VAGTBORG, HAROLD	USE OF SUBHUMAN PRIMATES IN DRUG EVALUATION	R13GM 14992-02	NSS	24,511
VAGTBORG, HAROLD	GENERAL RESEARCH SUPPORT GRANT	S01FR 05519-06	NSS	218,202
INSTITUTION TOTAL	14	2,023,625		
SOUTHWEST RESEARCH INSTITUTE				
ANDERSON, WALLACE L	RECONSTRUCTION HOLOGRAPHY THREE DIMENSIONAL WAVEFRONT	R01GM 14256-03	SSS	55,339
INSTITUTION TOTAL	1	55,339		
SOUTHWEST TEXAS EDUCATIONAL TELEVISION COUNCIL				
MILLARD, WILLIAM J, JR	INCREASING DENTAL HEALTH EDUCATION IN THE SCHOOLS	R01DH 00109-02	SSS	12,110
INSTITUTION TOTAL	1	12,110		
TEXAS UNIVERSITY OF				
BLUMENTHAL, WILLIAM S	CHRONIC RESPIRATORY EXPOSURE TO PYROLYZED POLYMERS	R01ES 00334-01	TOX	28,694
BURTON, ALEXIS L	CELL DIFFERENTIATION IN DEVELOPING RAT DERMIS	R01AM 11112-03	PTHA	11,933
CAMERON, IVAN L	CELL REPRODUCTION AND ITS CONTROL IN THE BODY	R01AM 16542-01	CBY	16,061
FRIEDBERG, SAMUEL J	GLYCERYL ETHER SYNTHESIS	R01HE 12020-01	MET	43,744
KRONICK, DAVID A	EDUCATIONAL NEEDS IN MEDICAL LIBRARIANSHIP	R01LM 00493-01	NSS	108,492
PANNILL, F C	GENERAL RESEARCH SUPPORT GRANT	S01FR 05654-01	NSS	25,500
WOOD, JOE G	CYTOCHEMICAL INVESTIGATIONS OF ADRENERGIC NEURONS	R01NB 06980-02	NEUB	23,964
INSTITUTION TOTAL	7	258,388		
TRINITY UNIVERSITY				
ESPEY, LAWRENCE L	THE CHEMICAL BASIS OF THE OVULATORY PROCESS	R01HD 02649-02	REB	32,486
INSTITUTION TOTAL	1	32,486		
TEMPLE				
SCOTT AND WHITE MEMORIAL HOSPITAL				
BONNET, JOHN D	CHEMOTHERAPY IN ADVANCED HUMAN MALIGNANCY	R10CA 10187-01A1	SRC	12,814
HIGHTOWER, NICHOLAS C, JR	CHARACTERIZATION OF HUMAN ISOAMYLASES	R01AM 12722-01	GMA	25,856
INSTITUTION TOTAL	2	38,670		
STATE TOTAL	418	27,624,212		
UTAH				
LOGAN				
UTAH STATE UNIVERSITY				
ANDERSON, RICHARD C	CHEMISTRY OF ISOTHIAZOLES	R01GM 14079-02	MCHB	21,656
BURNHAM, BRUCE F	TETRAPYRROLE BIOSYNTHESIS CONTROL MECHANISMS	R01AM 13085-01	BIO	18,648
FARLEY, THOMAS M	MECHANISM AND SITE OF ANTIMYCIN INHIBITION	R01AI 08621-01	MCHA	24,444
HAMMOND, DATUS M	DEVELOPMENT OF BOVINE COCCIDIA IN CULTURED CELLS	R01AI 07488-02	TMP	20,715
MOORE, WILLIAM M	THE PHOTOCHEMISTRY OF RIBOFLAVIN	R01GM 11401-05	MCHB	21,229
OLSEN, RICHARD K	THE SYNTHESIS OF QUINOXALINE ANTIBIOTICS	R01CA 10653-01	MCHA	20,298
SPENCE, JACK T	THE FUNCTION OF MOLYBDENUM IN BIOLOGICAL SYSTEMS	R01GM 08347-08	MCHB	19,548
SPENDLOVE, REX S	BIOLOGICAL AND PHYSICAL PROPERTIES OF REOVIRUS	R01AI 07750-02	VR	30,205
STOKES, ALLEN W	SOCIAL STRESS IN FREE-LIVING GROUND SQUIRRELS	R01HD 02640-02	EPR	10,077
STREET, JOSEPH C	MAMMALIAN METABOL. CHLORINATED HYDROCARBON INSECTICIDES	R01ES 00255-05	TOX	22,796
THORNE, WYNNE	BIOMEDICAL SCIENCES SUPPORT GRANT	S05FR 07093-02	NSS	37,066
INSTITUTION TOTAL	11	246,682		
OGDEN				
OGDEN RESEARCH FOUNDATION				
WILLIAMS, C BASIL	COOPERATIVE STUDY OF DRUGS AND CORONARY HEART DISEASE	R01HE 11377-02	SRC	56,168
INSTITUTION TOTAL	1	56,168		

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INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRG	DOLLARS
UTAH—(CON.)				
PROVO				
BRIGHAM YOUNG UNIVERSITY				
CHRISTENSEN, JAMES J	THERMODYNAMICS OF NUCLEIC ACID-PROTON DISSOCIATION	R01GM 09430-07	BBCA	24,759
COMPTON, LANE A	BIOMEDICAL SCIENCES SUPPORT GRANT	S05FR 07111-01	NSS	39,544
DONALDSON, DAVID M	PHAGOCYTE MIGRATION AND BLOOD BACTERICIDAL ACTIVITY	R01AI 01171-11	ALY	19,500
GUBLER, CLARK J	ENZYMATIC FUNCTIONS OF THIAMINE	R01AM 02448-09S1	NTN	3,412
GUBLER, CLARK J	PHYSIOLOGICAL FUNCTIONS AND METABOLISM OF THIAMINE	R01AM 02448-10A1	NTN	19,726
HENINGER, RICHARD W	QUANTITATIVE ASPECTS OF THYROID HORMONE METABOLISM	R01AM 11220-02	END	18,015
IZATT, REED M	THERMODYNAMIC STUDY OF ACTIVE TRANSPORT OF NA AND K	R01GM 15440-01	BBCA	23,082
MANGUM, JOHN H	METHIONINE SYNTHESIS IN PRIMARY AND VIRUS-INFECTED CELLS	R01GM 14208-03	PC	10,510
MANGUM, JOHN H	FOLATE MEDIATED REACTIONS IN BRAIN METABOLISM	R01NB 07291-02	MET	13,131
NORTH, JAMES A	BIOCHEMISTRY OF CELL RESPONSES TO SV40 VIRUS INFECTION	R01CA 08745-02	VR	39,505
SMITH, MARVIN A	THE ENZYMATIC SYNTHESIS OF OLIGORIBONUCLEOTIDES	R01GM 15298-01	PC	24,379
TRENT, DENNIS W	REPLICATION OF TURLOCK VIRUS IN CELL CULTURE	R01AI 07047-03	VR	19,356
WHITE, FRED G	MECHANISM OF KETOACID OXIDIZING ENZYMES OF HEART	R01HE 10004-03	BIO	10,976
INSTITUTION TOTAL	13	265,895		
SALT LAKE CITY				
HOLY CROSS HOSPITAL				
DOLOWITZ, DAVID A	NEURAL BASIS & DIAGNOSTIC VALUE OF VESTIBULAR REFLEXES	R01NB 07690-01	CMS	6,606
DOLOWITZ, DAVID A	NEURAL BASIS & DIAGNOSTIC VALUE OF VESTIBULAR REFLEXES	R01NB 07690-02	CMS	14,117
MC NEIL, CRICHTON	THE SECRETION OF TISSUE GROUP SUBSTANCES IN CANCER	R01CA 05965-07	HEM	24,201
INSTITUTION TOTAL	3	44,924		
LATTER-DAY SAINTS HOSPITAL				
NELSON, RUSSELL M	LEFT HEART BYPASS FOR PROLONGED CIRCULATORY SUPPORT	R01HE 09634-02S1	SCYA	4,422
WARNER, HOMER R	REGULATING STROKE VOLUME WITH ANALOG COMPUTER	R01HE 03607-10	PHY	40,378
WARNER, HOMER R	REGULATING STROKE VOLUME WITH ANALOG COMPUTER	R01HE 03607-11	PHY	41,406
INSTITUTION TOTAL	3	86,206		
SALT LAKE CLINIC RESEARCH FOUNDATION				
BARKER, ALLAN H	COOPERATIVE STUDY OF DRUGS AND CORONARY HEART DISEASE	R01HE 11661-02	SRC	61,192
INSTITUTION TOTAL	1	61,192		
UTAH UNIVERSITY OF				
ARMELAGOS, GEORGE J	PREHISTORIC BONE GROWTH AND DEVELOPMENT	R01HD 02771-02	GMB	18,640
BERGMAN, NORMAN A	ALVEOLAR-ARTERIAL OXYGEN DIFFERENCE DURING ANESTHESIA	R01HE 11188-02	CVB	2,500
BERLINER, DAVID L	HORMONAL INFLUENCE ON CELL FUNCTION	R01AM 09216-04	END	36,564
BLOOM, SHERMAN	PATHOGENESIS OF EXPERIMENTAL MYOCARDIAL HYPERTROPHY	R01HE 10962-02	PTHA	22,857
BRAY, PATRICK F	THE TEMPORAL LOBE SYNDROME- A LONGITUDINAL STUDY	R01NB 02888-07S1	NEUA	3,591
BROWN, ARTHUR M	INNERVATION OF CORONARY ARTERIES AND HEART	R01HE 10977-02	CVB	45,459
BROWN, WAYNE S	INVESTIGATION BY THERMAL STRESS EFFECTS IN TEETH	R01DE 02771-01	DEN	22,144
CARNES, WILLIAM H	DISTURBANCES OF GROWTH AND MAINTENANCE OF TISSUES	R01CA 05321-08	PTHB	54,260
CARNES, WILLIAM H	VIRUS IN RELATION TO C57BL MOUSE THYMOMA	R01CA 06846-05	PTHB	39,091
CARNES, WILLIAM H	CARDIOVASCULAR STUDIES ON COPPER DEFICIENCY	R01HE 05609-08	PTHA	64,667
CARTWRIGHT, GEORGE E	INVESTIGATIONS IN HEMATOLOGY	P01AM 04489-08	AMP	239,235
CASTLETON, KENNETH B	GENERAL CLINICAL RESEARCH CENTER	M01FR 00064-04	CLR	466,341
CASTLETON, KENNETH B	GENERAL RESEARCH SUPPORT GRANT	S01FR 05428-07	NSS	219,330
COLEMAN, SHERMAN S	TRAUMATIC HIP DISLOCATION ETIOLOGY OF BONE NECROSIS	R01AM 10686-03	SCYG	10,927
DICKMAN, SHERMAN R	PROTEIN SYNTHESIS BY PANCREAS	R01AM 00803-16	PC	28,872
DOUGHERTY, THOMAS F	ADRENOCORTICAL HORMONES AND LEUKEMOGENESIS	R01CA 02317-15	END	41,033
DOUGHERTY, THOMAS F	STEROIDS AS CHEMOTHERAPEUTIC AGENTS	R01CA 05225-07S1	END	18,008
EICHWALD, ERNST J	HOST RESISTANCE TO TRANSPLANTED TISSUES	R01CA 10924-01	GEN	43,038
EIK-NES, KRISTEN B	STEROID METABOLISM IN MALE SEX ORGANS IN VIVO	R01HD 03029-06	END	83,103
ERSHLER, IRVING	COOPERATIVE STUDY OF DRUGS AND CORONARY HEART DISEASE	R01HE 11657-02	SRC	83,954
ESPLIN, DON W	NEUROPHARMACOLOGY OF CENTRALLY ACTING DRUGS	R01NB 00872-12S1	PHRA	22,221
ESPLIN, DON W	NEUROPHARMACOLOGY OF CENTRALLY ACTING DRUGS	R01NB 00872-13	PHRA	56,147
EYRING, EDWARD M	RELAXATION RATE STUDIES OF BIOCHEMICAL EQUILIBRIA	R01AM 06231-07	BBCB	18,544
EYRING, HENRY	EFFECTS OF STRUCTURE ON BIOLOGICAL MECHANISMS	R01GM 12862-03S1	BBC	13,327
EYRING, HENRY	EFFECTS OF STRUCTURE ON BIOLOGICAL MECHANISMS	R01GM 12862-04	BBC	24,968
EYZAGUIRRE, CARLOS E	STUDIES ON THE PERIPHERAL AND CENTRAL NERVOUS SYSTEM	P01NB 07938-01	NBPA	276,134
EYZAGUIRRE, CARLOS E	STUDIES ON CHEMORECEPTOR ACTIVITY OF CAROTID BODY	R01NB 05666-04	NEUB	58,513
GIDDINGS, J CALVIN	BIOMEDICAL CHROMATOGRAPHY A BASIC APPROACH	R01GM 10851-11	BBC	102,442
GOODMAN, LOUIS S	NEUROPHARMACOLOGY AND NEUROCHEMISTRY PROGRAM RESEARCH	P01NB 04553-05	NBPA	175,681
GRANT, DAVID M	CARBON-13 MAGNETIC RESONANCE - METHODS AND THEORY	R01GM 08521-08	BBCB	64,333
GREENLEE, LORANCE L	STUDIES OF REPLICATION OF SMALL CHROMOSOMES	R01AI 07740-02	MBY	16,146
GROSSER, BERNARD I	UPTAKE AND METABOLISM OF CORTICOSTEROIDS BY BRAIN	R01NB 07761-01	NEUB	15,260
HANKS, GEORGE D	GENETIC ANALYSIS OF THE SEX RATIO IN DROSOPHILA	R01GM 13393-02	GEN	6,770
HANSON, MARVIN L	A LONGITUDINAL STUDY OF SWALLOWING IN CHILDREN	R01HD 02211-03	DEN	21,835
HATHAWAY, RALPH R	METABOLISM OF SPERM AND THE CUMULUS CELLS OF EGGS	R01HD 02648-02	REB	26,590
KAISER, IRWIN H	OVARIAN CYCLES AND CIRCADIAN PERIOD LENGTH IN MICE	R01HD 01549-03S1	REB	890
KOLFF, WILLEM J	AN INTRATHORACIC ARTIFICIAL HEART	R01HE 11694-01	CVB	249,280
KUBY, STEPHEN A	STUDIES ON ADENOSINE TRIPHOSPHATE TRANSPHOSPHORYLASES	R01AM 07824-05	BIO	41,190
KUEHL, LE ROY R	INTRACELLULAR SITE OF SYNTHESIS OF SPECIFIC ENZYMES	R01GM 13864-02S1	BID	375

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INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRG	DOLLARS
UTAH—(CON.)				
KUEHL, LE ROY R	INTRACELLULAR SITE OF SYNTHESIS OF SPECIFIC ENZYMES	R01GM 13864-03	BIO	20,433
KUIDA, HIROSHI	HEART FAILURE IN BRISKET DISEASE - ENDOTOXIN SHOCK	R01HE 07618-06	PTHA	97,393
KUNO, MOTOY	MONOSYNAPTIC TRANSMISSION IN SPINAL NEURONS	R01NB 07391-01	NEUB	50,595
LINKER, ALFRED	STRUCTURE AND FUNCTION OF MUCOPOLYSACCHARIDES	R01HE 06080-08	PC	14,026
MARCUS, STANLEY	RESISTANCE TO INFECTIOUS AND NEOPLASTIC DISEASE	R01CA 07302-05	BM	32,509
NELSON, DON H	ENDOCRINE INFLUENCES IN DISEASE	R01AM 11605-03	END	54,540
OGDEN THOMAS E	AN INTRACELLULAR STUDY OF EVOKED THALAMIC ACTIVITY	R01NB 04135-06	VIS	50,479
ORKAND, RICHARD K	LONG-TERM INTERACTIONS OF NEURONS AND GLIA	R01NB 06698-02	PHY	26,471
PERIC-GOLIA, LUDVIK	BILE ACIDS AND CHOLESTEROL POOL	R01AM 08941-04	GMA	50,982
PERL, EDWARD R	ADEQUATE STIMULI FOR SPINAL AND PROJECTION MECHANISMS	R01NB 01576-11	NEUB	60,816
PILAR, GUILLERMO R	GANGLIONIC SYNAPTIC TRANSMISSION	R01NB 07047-02	NEUB	11,919
PILGRIM, H IRA	GENESIS OF RETICULOENDOTHELIAL TUMORS IN MICE	R01CA 05771-08	PTHB	58,034
PRICE, PHILIP B	MEASUREMENT AND PREDICTORS OF PHYSICIAN PERFORMANCE	R01PM 00017-02	HSR	44,500
QUINN, MILDRED	DEVELOPMENT OF FACULTY COMPETENCE IN RESEARCH	R02NU 00167-04	NR	49,584
QUINN, MILDRED D	PREOPERATIVE DISTRESS AND POSTOPERATIVE RECOVERY	R21NU 00246-02	NR	14,025
RENZETTI, ATTILIO D, JR	THE ROLE OF INFECTION IN EMPHYSEMA	R01AI 07614-03	SSS	103,573
RENZETTI, ATTILIO D, JR	REGIONAL LUNG EXPANSION	R01HE 12011-01	CVB	43,496
RILLING, HANS C	EFFECT OF LIGHT ON BACTERIAL CAROTENOID PRODUCTION	R01GM 08321-08	PC	31,011
ROBINS, ROLAND K	SYNTHESIS OF CERTAIN POTENTIAL PURINE ANTAGONISTS	R01CA 08109-04	MCHB	88,581
ROGOLSKY, MARVIN	MAPPING OF SPORE GENES IN BACILLUS SUBTILIS	R01AI 08494-01	MBC	21,324
SAMUELS, LEO T	BIOSYNTHESIS AND ACTION OF STEROID HORMONES	R01AM 06730-06	END	62,338
SPIKES, JOHN D	BIOMEDICAL SCIENCES SUPPORT	S05FR 07092-03	NSS	72,601
STEVENS, LAWRENCE E	PRESERVATION OF ISOLATED KIDNEYS BY PERFUSION	R01HE 10253-03	SGYA	26,347
SWEAT, MAX L	ADRENAL METABOLISM AND CORTICOSTEROID BIOSYNTHESIS	R01AM 01803-11	END	36,574
SWEAT, MAX L	MECHANISM OF GROWTH IN ENDOMETRIAL TISSUE	R01HD 00472-12	END	40,416
VELICK, SIDNEY F	THE PROPERTIES AND METABOLISM OF INDIVIDUAL PROTEINS	R01HE 09282-05	PC	18,181
WALKER, JOHN L, JR	MECHANISMS OF ION MOVEMENTS THROUGH MEMBRANES	R01GM 14328-02	PHY	16,405
WARD, JOHN R	MYOPLASMA VARIANTS IN EXPERIMENTAL ARTHRITIS	R01AM 02255-10	BM	18,480
WARD, JOHN R	AUTORADIOGRAPHIC DISTRIBUTION OF LABELED ADJUVANT	R01AM 07952-04	ALY	14,339
WARD, JOHN R	EXPERIMENTAL CLINICAL INVESTIGATION PROGRAM IN R A	R01AM 12058-02	SSS	68,784
WARNER, HOMER R	COMPUTER FACILITY FOR MEDICAL COMMUNITY	P07FR 00012-06	COM	226,245
WEAVER, ROBERT G	ETIOLOGY AND PATHOGENESIS OF HYDRONEPHROSIS	R01AM 05397-06S1	PTHA	6,664
WEAVER, ROBERT G	PERIPHERAL ARTERY RESPONSES IN VASCULAR HYPERTENSION	R01HE 08784-03S1	CVA	167
WEAVER, ROBERT G	PERIPHERAL ARTERY RESPONSES IN VASCULAR HYPERTENSION	R01HE 08784-04	CVA	26,982
WEST, CHARLES D	THYROID HORMONE BLOOD LEVELS AND SECRETORY RATES	R01AM 10118-03	END	9,656
WILLIAMS, MAX L	FRACTURE IN DENTAL MATERIALS USING EPR	R01DE 02615-01	DEN	26,447
WINTROBE, MAXWELL M	MUSCULAR DYSTROPHY AND HEREDITARY DISORDERS	P01AM 00002-22	AMP	204,275
WOLBACH, ROBERT A	RENAL EXCRETION OF PHOSPHATE	R01AM 06973-06	PHY	16,297
INSTITUTION TOTAL	77	4,549,749		
STATE TOTAL	109	5,310,816		
VERMONT				
BENNINGTON				
BENNINGTON COLLEGE				
LYON, IRVING	GUT POTENTIALS AND NAO AND SUGAR FLUXES	R01AM 12424-01	PHY	11,527
INSTITUTION TOTAL	1	11,527		
HENRY W. PUTNAM MEMORIAL HOSPITAL				
LEDINKO, NADA	EFFECTS OF TUMORIGENIC ADENOVIRUSES ON CELLS	R01CA 10409-01	VR	31,344
TOOLAN, HELENE W	STUDIES ON HUMAN VIRUSES O CANCER, AGED CELLS	R01CA 07826-05	VR	52,310
USATEGUI-GOMEZ, MAGDALENA	THE PLACENTA AS A SECRETORY ORGAN	R01HD 02373-01A1	HEB	19,815
INSTITUTION TOTAL	3	103,469		
BURLINGTON				
VERMONT UNIVERSITY OF				
ABAJIAN, JOHN, JR	CARDIOVASCULAR EFFECTS OF HALOTHANE ANESTHESIA	R01HE 05512-06S1	PHRB	3,069
ALPERT, NORMAN R	MUSCLE EFFICIENCY AND CONTRACTILE MECHANISMS	R01HE 10892-03	PHY	26,120
ALPERT, NORMAN R	REGULATION OF HEAT PRODUCTION AND WORK IN HEART MUSCLE	R01HE 11611-02	MET	34,429
ANDREWS, EDWARD C JR	GENERAL CLINICAL RESEARCH CENTER	M01FR 00109-05	CLR	10,855
ANDREWS, EDWARD C, JR	GENERAL RESEARCH SUPPORT GRANT	S01FR 05429-07	NSS	163,555
BEEKEN, WARREN L	ROLE OF LYSSOMAL ENZYMES IN HEPATIC NECROSIS	R01AM 10773-02	MET	33,034
BLAIR, EMIL	HYPOXIA IN SHOCK - FLOW DISTRIBUTION AND METABOLISM	R01HE 11493-01	SGYB	68,254
CALDWELL, EDGAR J	PULMONARY MECHANICS IN HEALTH AND DISEASE	R01HE 10585-03	CVA	17,629
CHAMBERS, ALFRED H	COCHLEAR HAIR CELL METABOLISM AND COCHLEAR POTENTIALS	R01NB 04143-06	CMS	18,860
CHAMBERS, WILBERT F	ENDOCRINE ALTERATION AND NERVOUS SYSTEM FUNCTION	R01NB 04808-05	NEUA	10,551
CHIPMAN, ROBERT K	INHIBITION OF REPRODUCTION	R01HD 01141-04	NP	28,886
CLEMMONS, JACKSON J	AMINOPROPIONITRILE INJURY TO CONNECTIVE TISSUE	R01AM 07314-06	PTHA	25,740
DUNIHE, FRED W	FINE STRUCTURE OF GLOMERULI AND PURKINJE FIBERS	R01HE 05946-08	MBY	30,339
FORSYTH, BEN R	INFECTION AND IMMUNITY IN CHRONIC BRONCHITIS	R01AI 07958-02	VR	51,287
GANS, JOSEPH H	EFFECT OF CATECHOLAMINES ON CHOLESTEROL METABOLISM	R01HE 11681-01	MET	21,357
GJESSING, ERLAND C	A STUDY OF TWO PROTEOLYTIC ENZYMES FROM THE PANCREAS	R01AM 02024-09S1	BIO	5,490
GRAY, MARY J	USES OF A HEMATOPORPHYRIN IN CARCINOMA OF THE CERVIX	R01CA 08343-03	PHRB	30,385

TABLE 2—RESEARCH GRANTS, BY AREA, INSTITUTION, AND PRINCIPAL INVESTIGATOR

INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRG	DOLLARS
VERMONT—(CON.)				
GREEN, GARETH M	BRONCHOPULMONARY RESISTANCE TO BACTERIAL INFECTION	RO1AI 08900-01	BM	74,924
HAINES, CARLETON R	COOPERATIVE STUDY OF BREAST HORMONE THERAPY	R10CA 03764-10A1	SRC	18,457
HOWE, GEORGE R	PHYSIOLOGY OF THE MAMMALIAN OVIDUCT	RO1HD 03657-01	REB	14,202
JAFFE, JULIAN J	SENSITIVITY OF TRYPANOSOMES TO ANTI-TUMOR AGENTS	RO1CA 08114-04	PHRB	43,887
KELLEHER, PHILIP C	PROTEIN SYNTHESIS IN THE MAMMALIAN FETUS	RO1HD 03483-05	MET	43,412
KUEHNE, MARTIN E	A GENERAL SYNTHETIC APPROACH TO INDOLE ALKALOIDS	RO1GM 09381-06	MCHB	24,790
KUNIN, ARTHUR S	GLYCOLYTIC CONTROL MECHANISMS IN EPIPYSEAL CARTILAGE	RO1AM 09632-03	MET	31,356
KUSSEROW, BERT K	A PERMANENTLY INDWELLING INTRACORPOREAL BLOOD PUMP	RO1HE 05033-09	SGYB	28,663
LAMDEN, MERTON P	METABOLISM OF SCORBUTIC BONE AND CARTILAGE	RO1AM 10984-02	GMB	25,773
LAWSON, ROBERT B	STEREOPSIS AND ANOMALOUS CONTOUR	RO1NB 07301-02	VIS	20,065
LEPESCHKIN, EUGENE	T WAVES AND MYOCARDIAL ELECTROLYTES AND TEMPERATURES	RO1HE 01486-15	CVB	38,088
LUCEY, JEROLD F	FACTORS INFLUENCING EXPERIMENTAL KERNICTERUS	RO1HD 02015-03	HED	25,618
MC CROREY, H LAWRENCE	TEMPERATURE EFFECT ON MECHANICAL PROPERTIES OF MUSCLE	RO1AM 11084-03	PHY	15,612
MEEKER, CORNELIUS I	ANDROGENS IN PREGNANCY AND THE NEONATAL PERIOD	RO1HD 02782-01	END	33,234
MELVILLE, DONALD B	MICROBIAL ERGOTHIONEINE	RO1AM 08638-04	BIO	22,158
NEWCOMBE, DAVID S	METABOLIC ABNORMALITIES ASSOCIATED WITH MENTAL RETARDAT	RO1HD 03569-01	MET	39,254
NYBORG, WESLEY L	PHYSICAL MECHANISMS FOR BIOLOGICAL EFFECTS OF SOUND	RO1GM 08209-06	SSS	34,873
PARSONS, RODNEY L	RECEPTOR DENSITIZATION IN MUSCLE	RO1NB 07740-01	PHY	36,647
RAAB, WILHELM	PREDISPOSITION TO DEGENERATIVE HEART DISEASE	RO1HE 09184-03S1	CVA	9,954
ROBINSON, DONALD S	DRUG INTERFERENCE WITH ANTICOAGULANT THERAPY	RO1HE 10136-03	PHRB	11,071
ROTHSTEIN, HOWARD	WOUND HEALING IN LENS EPITHELIUM	RO1NB 05425-04	VIS	39,475
RUSH, STANLEY	EFFECT OF RESISTIVITY VARIATIONS ON ELECTROCARDIOGRAM	RO1HE 09831-03	CVB	22,223
SICHEL, FERDINAND J	CONTRACTILE PROPERTIES OF CARDIAC AND SKELETAL MUSCLE	RO1HE 00336-14	PHY	27,199
SIMS, ETHAN A	METABOLIC INTERRELATIONSHIPS OF OBESITY AND DIABETES	RO1AM 10254-03	MET	106,587
STINEBRING, WARREN R	INTERFERON PRODUCTION, RELEASE, ROLE IN RESISTANCE	RO1AI 08655-01	VR	36,776
TABAKIN, BURTON S	VENTILATORY OBSTRUCTION IN STEADY STATE EXERCISE	RO1HE 04010-10	AFY	34,877
TABAKIN, BURTON S	HEMODYNAMIC RESPONSE TO GRADED TREADMILL EXERCISE	RO1HE 06121-07S1	CVB	1,394
THANASSI, JOHN W	CHEMISTRY OF VITAMIN B6	RO1AM 12436-01	BIO	20,110
WEBB, GEORGE D	MOLECULAR NATURE OF SYNAPTIC AND CONDUCTING MEMBRANES	RO1NB 07265-02	PHY	27,266
WOODWORTH, ROBERT C	NATURE OF IRON-BINDING PROTEINS	RO1HE 07235-07	HEM	44,871
INSTITUTION TOTAL	47	1,532,656		
MIDDLEBURY				
MIDDLEBURY COLLEGE				
CROWLEY, DAVID E	FUNCTIONS OF THE COCHLEAR NUCLEUS	RO1NB 07041-02	CMS	20,265
SAUL, GEORGE B, II	NON-RECIPROCAL CROSS INCOMPATIBILITY IN MORMONIELLA	RO1GM 15963-01	GEN	14,936
INSTITUTION TOTAL	2	35,201		
STATE TOTAL	53	1,682,853		
VIRGINIA				
BLACKSBURG				
VIRGINIA POLYTECHNIC INSTITUTE				
BUNCE, GEORGE EDWIN	MAGNESIUM NUTRITURE AND PATHOLOGICAL CALCIFICATION	RO1AM 10446-02	GMB	12,843
GROSS, WALTER B	THE PATHOGENESIS OF E COLI INFECTION	RO1AI 05418-05S1	BM	7,038
HOUSKA, CHARLES R	DENTAL ALLOYS ATON ARRANGEMENTS THE HARDNESS MAXIMUM	RO1DE 02061-04	DEN	24,008
KING, KENDALL W	EFFICIENCY OF UTILIZATION OF AMINO ACIDS	RO1AM 08030-05	NTN	22,122
MARLOWE, THOMAS J	CYTOGENETIC ASPECTS OF CONGENITAL DISEASE	RO1HD 02312-02	GEN	10,684
MOORE, WALTER E	V P I ANAEROBIC BACTERIOLOGICAL RESEARCH PROGRAM	PO1GM 14604-02	GMP	292,273
PLOWMAN, KENT M	KINETIC STUDIES OF ATP CITRATE LYASE AS A THIOKINASE	RO1HE 11693-01	BIO	22,493
SAACKE, RICHARD G	STRUCTURE OF MILK SYNTHESIS AND SECRETION	RO1HD 01877-04	PTHB	13,626
VINGIELLO, FRANK A	A TRUE SYNTHESIS OF DIBENZO A,1 PYRENES	RO1CA 10229-02	MCHB	18,714
WEBB, RYLAND E	NUTRITIONAL STATUS: EFFECTS ON PESTICIDE TOXICITY	RO1ES 00257-02	NTN	19,530
WEBB, RYLAND E	PESTICIDE RESISTANCE IN PITYMYS PINETORUM	RO1ES 00296-01	TOX	12,368
WILSON, COYT T	BIOMEDICAL SCIENCES SUPPORD GRANT	S05FR 07095-01	NSS	43,589
WOLFE, JAMES F	NEW COMPOUNDS OF PHARMACEUTICAL INTEREST	RO1GM 14340-02	MCHA	14,402
INSTITUTION TOTAL	13	513,690		
CHARLOTTESVILLE				
VIRGINIA UNIVERSITY OF				
ACKERS, GARY K	MOLEC SIEVE CHROMATOG OF INTERACTIONS PROTEIN SYSTEMS	RO1GM 14493-02	BBCA	17,536
ATTINGER, ERNST O	O2 TRANSPORT-INTEGRATION OF RESPIRATION AND CIRCULATION	PO1HE 11747-01	HEPA	244,983
AYERS, CARLOS R	RENIN SECRETION IN RENOVASCULAR HYPERTENSION	RO1HE 10091-03	CVB	35,621
BASS, NORMAN H	MICROCHEMICAL PATHOLOGY OF CEREBRAL CORTEX MATURATION	RO1NB 07563-01	NEUB	48,780
BEAMS, JESSE W	PARTIAL SPECIFIC VOLUMES BY MAGNETIC BALANCE	RO1GM 10522-06	BBC	8,608
BEAMS, JESSE W	MAGNETICALLY SUPPORTED EQUILIBRIUM ULTRACENTRIFUGE	RO1GM 11630-09	BBC	12,471
BENZINGER, ROLF H	PHAGE DNA INFECTION OF E COLI AND ITS APPLICATIONS	RO1AI 08572-01	GEN	23,640
BERNE, ROBERT M	BLOOD FLOW AND NUCLEOTIDE METABOLISM IN THE HEART	RO1HE 10384-02	MET	55,799
BRUNI, CARLO	FINE STRUCTURE OF RAT HEPATIC CARCINOGENESIS	RO1CA 10602-01	PTHB	44,782
BURGER, ALFRED	STERIC HINDRANCE OF INACTIVATION	RO1GM 12781-03	MCHB	23,434
CARDELL, ROBERT R, JR	SUBCELLULAR EFFECTS OF METABOLIC HORMONES	RO1AM 11854-01	END	46,565
COYNE, MARY D	FACTORS INFLUENCING THE SECRETION OF ACTH	RO1AM 03370-09	END	43,682
COYNE, MARY D	REGULATION OF ACTH SYNTHESIS AND SECRETION	RO1AM 11851-01	END	18,620

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INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRG	DOLLARS
VIRGINIA—(CON.)				
CRISPELL, KENNETH R	GENERAL CLINICAL RESEARCH CENTER	M01FR 00304-02	CLR	114,179
CRISPELL, KENNETH R	GENERAL RESEARCH SUPPORT GRANT	S01FR 05431-07	NSS	202,367
CRISPELL, KENNETH R	DEVELOPMENTAL GRANT FOR RESEARCH AND SUPPORT - BASIC SCI	S04FR 06001-03	NSS	927,000
DAMMANN, J FRANCIS, JR	POSTOPERATIVE CARE AND EVALUATION OF CARDIAC PATIENTS	P01HE 08938-05	HEP	197,437
DAVIS, JOHN S, IV	IMMUNOLOGICAL MECHANISMS IN RHEUMATIC DISEASES	R01AM 11766-01	GMA	39,776
DI FAZIO, COSMO A	TISSUE HYPOXIA DURING CARDIOPULMONARY BYPASS	R01GM 14410-02	SGYA	29,120
DREIFUSS, F E	A COLLABORATIVE STUDY OF EPILEPSY - PHASE 1	R01NB 06211-02S1	SSS	11,289
DUNN, JOHN T	THYROGLOBULIN IN THYROID DISEASE	R01AM 11043-02	END	25,026
FOSTER, EUGENE A	PATHOGENESIS OF STAPHYLOCOCCAL LESIONS ROLE OF TOXINS	R01AI 07413-01S1	PTHA	2,288
FOSTER, EUGENE A	PATHOGENESIS OF STAPHYLOCOCCAL LESIONS ROLE OF TOXINS	R01AI 07413-02	PTHA	30,560
GEMMILL, CHALMERS L	METABOLIC EFFECTS OF THYROXINE	R01AM 00649-14	PHRA	8,540
GILLENWATER, JAY Y	MULTIPLE TECHNIQUE STUDY OF URINARY TRACT INFECTION	R01AI 08216-05	PTHA	60,414
GILLENWATER, JAY Y	BLOOD FLOW CHANGES IN CONGENITAL OBSTRUCTIVE UROPATHY	R01AM 10786-02	SGYA	46,540
GILMORE, JOSEPH P	MYOCARDIAL PERFORMANCE AND POTASSIUM BALANCE	R01HE 10616-02	CVB	53,659
GILMORE, JOSEPH P	NEURAL CONTROL OF BLOOD VOLUME	R01HE 11387-01	CVB	38,083
GOLDSTEIN, GERALD	IMMUNOLOGY OF TUMOR HOST RELATIONSHIPS	R01CA 03726-09S1	IMB	1,668
GOURLEY, DESMOND R	INSULIN CONTROL OF SKELETAL MUSCLE CATIONS	R01AM 11901-01	GMB	19,702
HAHN, JOHN F	NEURAL CODING OF CUTANEOUS STIMULI	R01NB 07446-01	NP	42,653
HAMNER, CHARLES E	HORMONAL REGULATION OF OVIDUCT FLUID COMPOSITION	R01HD 01672-03	REB	22,633
HAMNER, CHARLES E	HORMONAL REGULATION OF SPERM IN THE FEMALE TRACT	R01HD 03516-01	REB	32,382
HARBERT, GUY M, JR	STUDIES IN REPRODUCTIVE PHYSIOLOGY	R01HD 02798-01	HED	51,098
HARRISON, WILLARD W	BIOLOGICAL TRACE ANALYSIS BY HOLLOW CATHODE EMISSION	R01GM 14569-02	SSS	12,029
KRETSINGER, ROBERT H	COMPARISON OF PROTEIN TERTIARY STRUCTURE	R01GM 15786-01	BBCB	24,239
KUHLTHAU, A R	BIOMEDICAL SCIENCES SUPPORT	S05FR 07094-03	NSS	49,691
KUNIN, CALVIN M	PREVENTION OF CATHETER INDUCED INFECTIONS	R01AI 07186-03	NR	19,655
KUPKE, DONALD W	MOLECULAR STUDIES ON VIRUSES AND SUBCELLULAR COMPLEXES	R01GM 12569-05	BBCA	34,249
LAMB, THOMAS W	VENTILATORY RESPONSES TO INCREASED METABOLISM	R01HE 10390-02S1	PHY	13,680
LAMB, THOMAS W	VENTILATORY RESPONSES TO INCREASED METABOLISM	R01HE 10390-03	PHY	17,871
LANGMAN, JAN	MALFORMATIONS OF THE NERVOUS SYSTEM	R01NB 06188-03	HED	32,939
LEFER, ALLAN M	INOTROPIC ACTIONS OF CORTICOSTEROIDS	R01HE 09924-03	CVA	21,692
LOONEY, WILLIAM B	RADIATION EFFECTS ON CHROMOSOMES AFTER DNA SYNTHESIS	R01GM 10754-05	GEN	22,995
LUDEWIG, STEPHAN	CHEMICAL CHARACTERIZATION OF HEMOSIDERIN	R01AM 06784-04S1	BIO	233
MAC LEOD, ROBERT M	INFLUENCE OF HORMONES ON TISSUE METABOLISM	R01CA 07535-05	END	37,124
MARTIN, R BRUCE	STRUCTURE AND MECHANISM STUDIES	R01GM 12844-04	MCHB	17,280
MC COY, ERNEST E	METABOLIC STUDIES IN MONGOLISM	R01HD 03011-02	MET	47,777
MELLON, DE FOREST, JR	INTEGRATION OF SENSORY INPUT	R01NB 04989-05	PHY	16,340
MOHLER, DANIEL N	ERYTHROCYTE METABOLISM IN THE HEMOLYTIC ANEMIAS	R01HE 06239-06S1	HEM	10,195
MULLER, WILLIAM H, JR	EXPERIMENTAL & CLINICAL CARDIOVASCULAR SURGERY	R01HE 02038-14	SGYB	37,991
RINALDUCCI, EDWARD J	PHOTOPIC MECHANISMS OF DARK ADAPTATION	R01NB 07152-02	VIS	10,682
RODIG, OSCAR R	MECHANISM OF HYDROGENASE AND DEHYDROGENASE ACTION	R01AM 12523-01	MCHA	16,444
SHEPARD, FRANK M	EVALUATION OF NEONATAL SURGICAL PATIENTS	R01HD 02444-02	SGYB	21,760
SMITH, GARDNER W	HEMODYNAMICS AND PORTAL-SYSTEMIC SHUNT IN CIRRHOSIS	R01HE 04644-09	SGYB	42,657
SPERELAKIS, NICK	CONDUCTION IN THE MYOCARDIUM	R01HE 11155-02	PHY	41,456
SUNDBERG, RICHARD J	MECHANISMS OF DEOXYGENATION REACTIONS	R01GM 14344-02	MCHB	25,577
THOMPSON, THOMAS E	A STUDY OF PHOSPHOLIPID BILAYER MEMBRANES	R01GM 14628-03	BBCA	36,229
THURMAN, WILLIAM G	NEWBORN SERUM PROTEIN AND IMMUNOLOGIC ABNORMALITIES	R01HD 01121-03S1	HED	572
THURMAN, WILLIAM G	SOUTHWEST CANCER CHEMOTHERAPY STUDY GROUP	R10CA 08223-04	SRC	30,651
VOLK, WESLEY A	CELL WALL BIOSYNTHESIS	R01AM 08388-04	BIO	14,027
WAGNER, ROBERT R	CELLULAR RESISTANCE TO VIRAL INFECTION	R01CA 10387-01	VR	27,966
WAGNER, ROBERT R	CELLULAR RESISTANCE TO VIRAL INFECTION	R01CA 10387-02	VR	122,126
WALLENBORN, WHITE M	EXPERIMENTAL PRODUCTION OF PAROTID GLAND ATROPHY	R01NB 06508-02	CMS	9,536
WEINER, DANIEL E	POTASSIUM ABSORPTION BY THE SMALL INTESTINE	R01AM 10392-02	PHY	13,630
WHEBY, MUNSEY S	STUDIES IN IRON ABSORPTION AND METABOLISM	R01AM 11258-03	HEM	30,810
WILSDORF, HEINZ G	FUNDAMENTAL RESEARCH ON MEDICAL AND DENTAL MATERIALS	P01DE 02111-04S1	DEP	92,718
WILSDORF, HEINZ G	FUNDAMENTAL RESEARCH ON MEDICAL & DENTAL MATERIALS	P01DE 02111-05	DEP	230,000
INSTITUTION TOTAL	68	3,763,756		
HARRISONBURG				
MADISON COLLEGE				
JENKINS, MARIE M	RELATIONSHIPS IN AGING AND REPRODUCTION IN PLANARIANS	R01HD 02217-03	TMP	3,555
INSTITUTION TOTAL	1	3,555		
HOLLINS COLLEGE				
HOLLINS COLLEGE				
WEBSTER, RONALD L	ACOUSTIC FACTORS IN INFANT VOCAL BEHAVIOR	R01HD 02739-01A1	CPR	20,821
INSTITUTION TOTAL	1	20,821		
NORFOLK				
OLD DOMINION COLLEGE				
ATWOOD, EARL L	HOST ROLES IN THE RICKETTSIA RICKETTSII ECOSYSTEM	R01AI 06666-03	VR	31,938
SONENSHINE, DANIEL E	THE IDENTIFICATION OF LARVAL IXODIDAE, PRIMARILY IXODES	R01AI 07082-02S1	TMP	3,000
SONENSHINE, DANIEL E	THE IDENTIFICATION OF LARVAL IXODIDAE, PRIMARILY IXODES	R01AI 07082-03	TMP	8,047
INSTITUTION TOTAL	3	42,985		

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INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRG	DOLLARS
VIRGINIA—(CON.)				
P H S BUREAU OF HEALTH SERVICES-P H S HOSPITAL				
HENNELLY, PATRICK J. JR	CO-OPERATIVE STUDY OF RENAL DISEASE AND HYPERTENSION	RO1HE 09752-04	SRC	34,544
INSTITUTION TOTAL	1	34,544		
RICHMOND				
VIRGINIA MEDICAL COLLEGE OF				
ALKSNE, JOHN F	METALLIC THROMBOSIS OF INTRACRANIAL ANEURYSMS	RO1NB 07883-01	NEUA	20,598
ALKSNE, JOHN F	FUNCTIONAL ULTRASTRUCTURE OF THE ARACHNOID VILLUS	RO1NB 08051-01	PTHA	7,258
BAKERMAN, SEYMOUR	STRUCTURAL PROTEINS OF HUMAN RED BLOOD CELL MEMBRANE	RO1HE 12390-01	HEM	25,838
BLAYLOCK, W KENNETH	PATHOBIOLOGY OF CHRONIC ECZEMATOUS DERMATITIS	RO1AI 06416-03S1	GMA	7,626
BROWNSON, ROBERT H	IRRADIATED HIPPOCAMPUS ELECTRO-MORPHOLOGIC CHANGES	RO1NB 01289-12	PTHA	40,567
BURKE, JACK D	OXY-HEMOGLOBIN AFFINITY IN FISH BLOOD	RO1HE 08774-05S1	HEM	1,075
BUSH, FRANCIS M	MOLECULAR ASPECTS OF PROTEINS BLOOD TYPES OF BIRDS	RO1GM 13649-02	HEM	15,034
CONWAY, LOUIS W	PITUITARY ABLATION ITS ENDOCRINE & CLINICAL AFFECTS	RO1CA 08281-02S1	END	901
CORLEY, KARL C. JR	CNS CORRELATES OF INTERNALLY-OPERATING HUNGER DRIVE	RO1NB 05328-03S1	PHY	6,025
CRIBBS, RICHARD M	GENETICS OF ARABINOSE NEGATIVE MUTANTS OF E. COLI	RO1GM 11098-04	GEN	21,006
DE HART, WILLIAM D	CENTRAL VESTIBULAR COMPENSATION & AUTONOMIC FUNCTION	RO1NB 07839-01	NEUB	16,871
DINGLELINE, WILLIAM S	STUDIES ON HUMAN THYROID VENOUS BLOOD	RO1AM 06645-06	END	18,418
FARRAR, JOHN T	MECHANICS OF THE SMALL INTESTINE IN MAN AND ANIMALS	RO1AM 10934-02	GMA	21,598
HARLAN, WILLIAM R JR	GENERAL CLINICAL RESEARCH CENTER	MO1FR 00065-06	CLR	246,354
HARLAN, WILLIAM R, JR	MECHANISM OF CARBOHYDRATE-INDUCED HYPERTRIGLYCERIDEMIA	RO1AM 10959-02	MET	14,290
HARRIS, THOMAS M	MORPHOGENESIS OF AMPHIBIAN ENDODERMAL DERIVATIVES	RO1HD 01789-03	CBY	11,744
HOFF, EBBE C	CEREBRAL AUTONOMIC MECHANISMS	RO1NB 01024-12	NEUA	17,103
HOFF, EBBE C	CEREBRO-AUTONOMIC CHANGES BY ETHANOL AND ATARACTICS	RO1NB 03047-08	PHY	27,828
HOFF, EBBE C	STUDY OF HIGHER CEREBRAL REGULATION OF RENAL FUNCTION	RO1NB 05100-05	NEUA	16,800
HSU, HSIU-SHENG	IN VITRO STUDIES ON THE INTERACTIONS BETWEEN MACROPHAGES	RO1AI 06765-03	BM	12,585
HUDGINS, PATRICIA M	ANALYSIS OF DRUG ACTION ON VASCULAR SMOOTH MUSCLE	RO1NB 07752-01	PHRA	28,578
HUF, ERNST G	METABOLISM AND ACTIVE ION TRANSPORT IN FROG SKIN	RO1GM 03545-16	PHY	13,961
HUME, DAVID M	RENAL HOMOTRANSPLANTATION IN MAN	PO1HE 08203-05S1	HEPB	41,626
HUME, DAVID M	RENAL HOMOTRANSPLANTATION IN MAN	PO1HE 08203-06	HEP	741,547
KILPATRICK, S JAMES, JR	EXPANSION OF SCIENTIFIC COMPUTATION LABDRATORY	PO7FR 00016-06	COM	87,167
KLINE, EDWARD S	THE LACTIC DEHYDROGENASES OF E CDLI	RO1AM 08609-03S1	PC	4,457
LAUPUS, WILLIAM E	VASOMOTOR RESPONSES IN INFANTS	RO1HE 08526-05	PHY	17,255
LAURENCE, RICHARD J	RENAL EXCRETION OF CREATININE AND WEAK ORGANIC ACIDS	RO1AM 11826-02	PHY	6,533
LOWER, RICHARD R	CARDIAC TRANSPLANTATION	RO1HE 10551-03	SCYB	20,424
LOWNEY, EDMUND D	UNRESPONSIVENESS TO CONTACT SENSITIZERS	RO1AI 08473-02	IMB	26,773
LYONS, HARRY	GENERAL RESEARCH SUPPORT GRANT	SO1FR 05345-07	NSS	26,648
MARTIN, ALFRED N	STRUCTURE-ACTIVITY RELATIONS IN A STUDY OF DRUG ACTION	RO1AI 07811-02	MCHB	24,308
MOON, JOHN H	COOPERATIVE STUDY IN CHEMOTHERAPY OF ACUTE LEUKEMIA	RI0CA 03735-11	SRC	30,171
MULLINAX, PERRY F	BIOCHEMICAL CONTROL OF GAMMA GLOBULIN SYNTHESIS	RO1CA 07350-05	ALY	26,079
NELSON, KINLOCH	GENERAL RESEARCH SUPPORT GRANT	SO1FR 05430-07	NSS	289,392
PATTERSON, JOHN L. JR	CHEMICAL CONTROL OF PERIPHERAL CIRCULATION	RO1HE 11077-02	PHY	32,595
PROUT, GEORGE R, JR	GENITOURINARY ONCOLOGY, LDH AND PROSTATIC IMMUNOLOGY	RO1CA 06462-06S1	IMB	38,153
PROUT, GEORGE R, JR	ADJUVANTS IN THE TREATMENT OF BLADDER CARCINOMA	RO1CA 06732-05	SRC	19,846
REGELSON, WILLIAM	CANCER STUDIES AS PARTICIPATION IN EASTERN SOLID TUMOR G	RI0CA 10572-01	SRC	28,880
RICHARDSON, DAVID W	COOPERATIVE STUDY OF CEREBRAL VASC DIS & HYPERTENSION	RO1NB 06936-02	SSS	13,731
ROBERTS, PHYLLIS S	THE PURIFICATION AND ACTIVATION OF PLASMINOGEN	RO1HE 04016-10	HEM	33,557
SAID, SAMI I	PULMONARY CAPILLARY CIRCULATION AND DIFFUSING CAPACITY	RO1HE 04226-09	CVB	20,700
SCHWEISTHAL, MICHAEL R	TISSUE CULTURE STUDIES AND THE PANCREATIC ISLET CELL	RO1AM 10178-03	PTHB	24,714
SCOGGINS, ROBERT B	THE LANGERHANS CELL ORIGIN AND DIFFERENTIATION	RO1AM 11864-01	GMA	29,984
SCOTT, ROBERT B	CONTROL OF DIFFERENTIATION IN CULTURED LEUKOCYTES	RO1CA 08482-03	IMB	24,158
STILL, WILLIAM J S	PATHOGENESIS OF ATHEROSCLEROSIS	RO1HE 09622-04	PTHA	26,427
STUBBINS, JAMES F	DRUGS BASED ON ARIENS DUAL RECEPTOR SITE THEORY	RO1NB 07273-02	MCHA	21,233
SWELL, LEON	MECHANISM OF CHOLESTEROL ABSORPTION	RO1HE 09039-04S1	MET	7,379
SZUMSKI, ALFRED J	INTRACELLULAR STUDY OF THE MECHANISM OF CLONUS	RO1NB 06383-03	NEUB	10,472
UTZ, JOHN P	PATHOGENESIS OF CRYPTOCOCCUS NEOFORMANS INFECTIONS	RO1AI 07791-02	BM	31,615
WALLER, MARION V	SERUM AGGLUTINATORS OF ALTERED GAMMA GLOBULINS	RO1AM 04549-07	ALY	20,805
WATLINGTON, CHARLES O	ACTIVE ION TRANSPORT IN INTACT FROG SKIN	RO1AM 06481-06	PHY	11,900
WEISS, GEORGE B	CELLULAR BASIS OF DRUG ACTION IN ILEAL SMOOTH MUSCLE	RO1GM 13709-03	PHRA	13,793
WELSHIMER, HERBERT J	STUDY OF LISTERIOSIS AND LISTERIA MONOCYTOGENES	RO1AI 01404-12	BM	10,502
WEYMOUTH, RICHARD J	ELECTRON MICROSCOPY OF HUMAN RENAL TRANSPLANT TISSUE	RO1AI 08150-01A1	PTHA	22,141
INSTITUTION TOTAL	55	2,377,023		
WILLIAMSBURG				
WILLIAM AND MARY COLLEGE OF				
FRIEDMAN, HERBERT	BEHAVIORAL STUDIES OF THE OPOSSUM	RO1GM 13031-02	EXP	13,232
HARCUM, EUGENE R	FACTS OF NORMAL VISION IN READING OR LEARNING DEFICIT	RO1HD 00207-09	EXP	22,253
INSTITUTION TOTAL	2	35,485		
STATE TOTAL	144	6,791,859		

TABLE 2—RESEARCH GRANTS, BY AREA, INSTITUTION, AND PRINCIPAL INVESTIGATOR

INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRG	DOLLARS
WASHINGTON				
PULLMAN				
WASHINGTON STATE UNIVERSITY				
BENET, LESLIE Z	INTESTINAL PH AND ITS EFFECTS ON DRUG ABSORPTION	RO1GM 15093-02	PHRA	24,212
CARLSON, JAMES R	TRYPTOPHAN INDUCED PULMONARY EMPHYSEMA IN THE BOVINE	RO1AI 08285-01	MET	30,292
FOSTER, ROBERT J	BINDING OF SPECIFIC INHIBITORS TO CHYMOTRYPSIN	RO1AM 02299-10	BBCA	18,176
GIBSON, MELVIN R	PUBLIC HEALTH EDUCATION IN COLLEGES OF PHARMACY	RO1PM 00004-02	HSR	14,457
GOLLNICK, PHILIP D	FAT AND CHOLESTEROL METABOLIC ADAPTATIONS TO EXERCISE	RO1HE 08262-05	AFY	30,966
HADWIGER, LEE A	BIOSYNTHESIS OF PHYTOALEXINS	RO1AI 06826-02	MBC	16,605
HENDERSON, JAMES A	GENERAL RESEARCH SUPPORT GRANT	SO1FR 05465-06	NSS	70,994
HENSON, JAMES B	PATHOGENESIS OF A GENERALIZED VASCULITIS OF MINK	RO1AI 06477-07	PTHA	22,754
HENSON, JAMES B	PATHOGENESIS OF A CHRONIC VIRUS - EQUINE INF ANEMIA	RO1AI 07471-02	VR	55,756
JENSEN, LEO S	NUTRITIONAL FACTORS AFFECTING AVIAN LIPOPROTEINS	RO1AM 10298-03	NTN	19,978
JOHNSON, WILLIAM E	TERATOGENESIS THROUGH IN VITRO TREATMENT OF EMBRYOS	RO1HD 02236-03	HED	14,492
KENZY, SAM G	STUDY OF AVIAN NEURAL TUMORS	RO1CA 07517-05	VR	45,186
KIRSCHNER, LEONARD B	MECHANISM OF ACTIVE ION MOVEMENT ACROSS MEMBRANES	RO1GM 04254-13S1	PHY	2,100
KIRSCHNER, LEONARD B	MECHANISM OF ACTIVE ION MOVEMENT ACROSS MEMBRANES	RO1GM 04254-14	PHY	25,041
KOCH, ALAN R	FUNCTIONAL RELATIONS OF RENAL ION TRANSPORT	RO1HE 10675-03	CVA	14,929
KOCH, ALAN R	CONTINUOUS RECORDING OF ISOTOPE UPTAKE IN BRAIN	RO1NB 06694-03	NEUA	17,671
KONZAK, CALVIN F	CORRELATED IN VITRO AND IN VIVO REACTIONS OF MUTAGENS	RO1GM 10838-10	GEN	60,000
MARTIN, CHARLES F	STUDIES OF 3-AMINOPIPERIDONES AND PIPERIDINEDIONES	RO1NB 05032-04	MCHB	17,109
MATTESON, DONALD S	WATER-SOLUBLE BORONIC ACIDS	RO1CA 05513-08	MCHB	27,385
MC FADDEN, BRUCE A	METABOLISM OF PSEUDOMONAS INDIGOFERA	RO1GM 09039-07	PC	35,659
MILLER, VERNON L	RETENTION AND DETOXICATION OF HEAVY METALS	RO1ES 00168-09	TOX	17,279
MILNE, HENRY BAYARD	THE CHEMISTRY OF N-ACYLA-AMINO ACID PHENYLDIIMIDES	RO1GM 11835-05	MCHB	14,906
OTT, RICHARD I	NATURAL HISTORY OF SALMON POISONING RICKETTSIAE	RO1AI 03606-07	TMP	26,297
PADGETT, GEORGE A	CHEDIAK HIGASHI SYNDROME AND DISEASE SUSCEPTIBILITY	RO1AI 06591-04	PTHA	45,708
RYAN, CLARENCE A, JR	CHYMOTRYPSIN INHIBITOR FROM POTATOES	RO1GM 12505-04	BIO	11,529
SHORT, JAMES F JR	BIOMEDICAL SCIENCES SUPPORT	SO5FR 07097-03	NSS	61,712
SPENCER, GUY R	FLUORIDE AND CALCIUM EFFECTS ON BONE AND TEETH	RO1AM 11611-01	GMB	30,279
STEVENS, CARL M	NEW ASPECTS OF AMINO ACID METABOLISM	RO1AI 01111-12	BIO	13,994
WAY, JAMES L	ANTAGONISM OF CYANIDE INTOXICATION	RO1GM 15871-01	TOX	17,021
WAY, JAMES L	METABOLISM OF ALKYLPHOSPHATE ANTAGONISTS	RO1NB 07855-02	PHRB	41,210
WENT, HANS A	CELL DIVISION AND MITOTIC APPARATUS PROTEINS	RO1GM 07286-08	MBY	8,802
WOLLEN, KEITH A	R-S ASSOCIATION AND INTRATRIAL REHEARSAL	RO1HD 02249-03	EPA	10,110
YOUNG, FRANCIS A	GROWTH ENVIRONMENTAL REFRACTIVE CHANGES	RO1NB 05459-04	VIS	67,401
YOUNT, RALPH G	INTERACTION OF ATP ANALOGS WITH MYOSIN	RO1AM 05195-08	PC	18,701
INSTITUTION TOTAL	34	948,711		
SEATTLE				
CHILDREN'S ORTHOPEDIC HOSPITAL AND MEDICAL CENTER				
BECKWITH, J BRUCE	A STUDY OF THE SUDDEN DEATH SYNDROME IN INFANTS	RO1HD 01659-03	VR	80,758
HARTMANN, JOHN R	PACIFIC NORTHWEST CHILDRENS CANCER CENTER	RO1CA 10889-01	NSS	60,000
HARTMANN, JOHN R	CANCER CHEMOTHERAPY IN CHILDHOOD	R10CA 10382-01S1	SRC	15,818
HARTMANN, JOHN R	CHILDRENS CANCER STUDY GROUP A	R10CA 10382-02	SRC	138,682
INSTITUTION TOTAL	4	295,258		
FIRLAND SANATORIUM				
LENFANT, CLAUDE J	VENTILATION - PERFUSION DISTRIBUTION IN THE LUNG	RO1HE 08465-04S1	PHY	4,306
LENFANT, CLAUDE J M	VENTILATION-PERFUSION DISTRIBUTION IN THE LUNG	RO1HE 08465-05	PHY	3,707
MARTIN, CARROLL J	VENTILATION-PERFUSION VARIATIONS IN THE LUNG OF MAN	RO1HE 01892-13S1	PHY	18,000
INSTITUTION TOTAL	3	26,013		
KING COUNTY CENTRAL BLOOD BANK				
DONOHUE, DENNIS M	WESTERN COOPERATIVE CANCER CHEMOTHERAPY STUDY	R10CA 07584-05	SRC	3,741
GIBLETT, ELOISE R	INHERITED VARIATIONS IN HUMAN BLOOD COMPONENTS	RO1AM 09745-03	ALY	31,120
INSTITUTION TOTAL	2	34,861		
P H S BUREAU OF HEALTH SERVICES-P H S HOSPITAL				
GRIEP, ROBERT J	COOPERATIVE STUDY OF RENAL DISEASE AND HYPERTENSION	RO1HE 09753-03S1	SRC	800
GRIEP, ROBERT J	COOPERATIVE STUDY OF RENAL DISEASE AND HYPERTENSION	RO1HE 09753-04	SRC	20,703
JOHNSON, WILLARD P	COOPERATIVE STUDY OF TREATMENT OF HYPERTENSION	RO1HE 10715-02	SRC	25,712
INSTITUTION TOTAL	3	47,215		
PACIFIC NORTHWEST RESEARCH FOUNDATION				
BAKKE, JOHN L	THYROTROPIN ASSAY OF BODY FLUIDS AND TISSUES	RO1AM 05638-08	END	76,727
GELLERT, RONALD J	SITE OF ACTION OF CLOMIPHENE	RO1HD 03588-01	REB	23,946
HUTCHINSON, WILLIAM B	FRED HUTCHINSON CANCER CENTER	RO1CA 10896-01	NSS	50,742
HUTCHINSON, WILLIAM B	GENERAL RESEARCH SUPPORT GRANT	SO1FR 05520-06	NSS	53,574
LAWRENCE, CARTERET	OCULAR PRESSURE-VOLUME RELATION	RO1NB 05098-05	VIS	79,101
SANTISTEBAN, GEORGE A	EARLY EXPERIENCE, RNA AND STRESS RESPONSE MECHANISMS	RO1HD 04142-01	NSS	24,094
INSTITUTION TOTAL	6	308,184		

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INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRG	DOLLARS
WASHINGTON—(CON.)				
PACIFIC SLOPE BIOCHEMISTS ASSOCIATION				
WEST, CHARLES A	PACIFIC SLOPE BIOCHEMICAL CONFERENCE AND SYMPOSIA	R13GM 09171-07	BIO	2,000
INSTITUTION TOTAL	1 2,000			
PROVIDENCE HOSPITAL				
EDMARK, K WILLIAM	MICRO-ION DOMAIN CONCEPT OF THROMBOGENICITY	RO1HE 12059-01	SGYA	46,670
SAUSAGE, LESTER R	IMPROVED PROSTHESES FOR ARTERIES AND VALVES	RO1HE 11749-01	SGYB	122,188
INSTITUTION TOTAL	2 168,858			
SEATTLE PACIFIC COLLEGE				
MARTIN, GORDON W	HDST-TREMATODE INTERRELATIONSHIPS	RO1AI 07785-02	TMP	8,548
INSTITUTION TOTAL	1 8,548			
VIRGINIA MASON RESEARCH CENTER				
BARRON, EDWARD J	INCORPORATION OF ACETATE INTO 9 MONOENOIC ACIDS	RO1AM 07806-05	PC	14,610
BARRON, EDWARD J	CONTROL OF CHAIN LENGTH IN FATTY ACID SYNTHESIS	RO1AM 08966-03S1	PC	1,142
BRIDENBAUGH, PHILLIP D	FACTORS PREDISPOSING TO POSTOPERATIVE ATELECTASIS	RO1GM 14948-02	SGYA	12,591
JONES, HUGH W	CLINICAL LABORATORY DATA ACQUISITION SYSTEM - PHASE 2	RO1GM 15581-01	COM	78,739
MOORE, DANIEL C	LOCAL ANESTHETIC AGENTS DISTRIBUTION AND FATE IN MAN	RO1GM 14416-02	PHRA	45,542
REEVES, ROBERT L	UNIVERSITY GROUP DIABETES PROGRAM	RO1AM 07854-05	SSS	33,617
SPENCER, MERRILL P	BASIS FOR PHONOCARDIOGRAPHIC INTERPRETATION	RO1HE 08525-06	CVA	25,952
SPENCER, MERRILL P	COMPARATIVE PHYSIOLOGY OF THE CEREBRAL CIRCULATION	RO1HE 09131-04	PHY	37,297
SPENCER, MERRILL P	CARDIOVASCULAR ADJUSTMENTS IN DIVING MAMMALS	RO1HE 10258-03	CVA	35,518
SPENCER, MERRILL P	INERT GAS ELIMINATION STUDY	RO1HE 12015-01	CVB	25,177
SPENCER, MERRILL P	GENERAL RESEARCH SUPPORT GRANT	SO1FR 05588-02	NSS	24,794
INSTITUTION TOTAL	11 334,979			
WASHINGTON UNIVERSITY OF				
AKESON, WAYNE H	CONNECTIVE TISSUE RESPONSE TO IMMOBILITY	RO1AM 06363-08	GM	32,645
AKESON, WAYNE H	AN EXPERIMENTAL APPROACH TO ARTHROPLASTY OF THE HIP	RO1AM 08689-04	SGYB	43,459
ALLEN, GERALD D	EVALUATION OF CURRENT METHODS OF DENTAL ANESTHESIA	RO1DE 02419-03	DEN	29,565
ALVORD, ELLSWORTH C, JR	EXPERIMENTAL ALLERGIC ENCEPHALOMYELITIS	RO1NB 03147-08	IMB	54,032
BAUM, DAVID	HYPOXIA, METABOLISM, AND NEONATAL THERMOREGULATION	RO1HD 02531-02	HED	14,962
BENDITT, EARL P	CELLULAR AND MOLECULAR PATHOLOGY	PO1GM 13543-03	GMP	83,053
BENDITT, EARL P	MECHANISMS OF ACUTE VASCULAR REACTION TO INJURY	RO1HE 03174-12	PTHB	121,589
BENNINGTON, JAMES L	GROWTH KINETICS OF DMBA-INDUCED RAT MAMMARY TUMORS	RO1CA 10475-01	PTHB	23,478
BIERMAN, EDWIN L	THE METABOLISM OF PARTICULATE FAT IN DIABETES MELLITUS	RO1AM 06670-05	MET	24,015
BLANDAU, RICHARD J	EMBRYOLOGY OF THE OVIDUCT IN RODENTS AND MAN	RO1HD 02519-02	REB	15,471
BLANDAU, RICHARD J	OVULATION AND GAMETE TRANSPORT IN MAMMALS	RO1HD 03464-14	CB	47,411
BLANDAU, RICHARD J	EMBRYOLOGY OF THE MAMMALIAN OVARY	RO1HD 03475-05	REB	25,676
BORNSTEIN, PAUL	THE BIOCHEMISTRY OF COLLAGEN AND ITS CROSSLINKS	RO1AM 11248-02	PC	22,565
BOYDEN, EDWARD A	GROWTH OF BRONCHIAL AND VASCULAR COMPONENTS OF LUNG	RO1HD 00656-12	HED	11,828
BRADY, LYNN R	PHYSIOLOGICALLY ACTIVE PRINCIPLES OF HIGHER FUNGI	RO1GM 07515-08	PHRA	41,790
BROWN, ARTHUR C	DENTAL PULP PHYSICAL FORCES AND CAPILLARY EXCHANGE	RO1DE 02152-03	DEN	23,893
BULGER, RUTH E	EVOLUTION OF RENAL ULTRASTRUCTURE AND FUNCTION	RO1AM 10922-02	PTHA	38,060
BUTLER, JOHN	SIMULTANEOUS RIGHT AND LEFT HEART FLOW CHANGES IN MAN	RO1HE 10289-03	CVA	18,327
BUTLER, JOHN	WORK OF VENTILATING PATIENTS WITH EMPHYSEMA	RO1HE 10854-02	CVB	12,301
CAHN, ROBERT D	EYE DEVELOPMENT PIGMENTED RETINA DIFFERENTIATION	RO1NB 06761-02	VIS	2,283
CHAMBERS, VELMA C	AN ELECTRON MICROSCOPE STUDY OF IMMUNE CELLS	RO1CA 05698-07	IMB	30,867
CHAPMAN, WARREN H	EXPERIMENTAL BLADDER TUMORS	RO1CA 03842-11	SGYA	31,252
COBB, LEONARD A, JR	CARDIAC REGULATION IN MAN	RO1HE 07478-06	AFY	24,161
COWGER, MARILYN L	MECHANISM OF BILIRUBIN TOXICITY	RO1HD 03302-04	GMA	22,700
CRILL, WAYNE E	CEREBELLUM UNIT STUDIES	RO1NB 07987-01	PHY	25,819
CUTLER, RALPH E	HORMONAL CONTROL OF RENAL FUNCTION	RO1AM 08593-04	GMB	14,031
DAVIE, EARL W	MECHANISM OF ENZYME CATALYSIS	RO1GM 10793-06	PC	40,609
DAVIE, EARL W	MECHANISM OF BLOOD COAGULATION	RO1HE 11857-01	HBM	23,395
DECKER, JAY D	FINE STRUCTURE OF ENAMEL ORGAN VASCULARIZATION	RO1DE 02085-05	DEN	20,460
DEYRUP-OLSEN, INGRITH J	STUDIES ON MECHANISMS OF TRANSPORT OF SULFATE IONS	RO1AM 09361-05	PHY	17,849
DIXON, ROBERT L	BINDING OF METHOTREXATE AND ITS DISPLACEMENT BY DRUGS	RO1CA 08671-02S1	PHRB	4,305
DIXON, ROBERT L	VARIOUS FACTORS AFFECTING PRENATAL DRUG EXPOSURE	RO1HD 02350-02	PHRA	18,960
DDERMANN, AUGUST H	GENETIC ASPECTS OF BACTERIAL VIRUS MULTIPLICATION	RO1GM 13280-05	VR	69,600
DOLOWY, WILLIAM C	E COLI L-ASPARAGINASE TOXIC AND ANTITUMOR EFFECTS	RO1CA 10791-01	NSS	34,127
DOWLING, JAMES T	STUDIES OF ENDOCRINE INTERRELATIONSHIPS	RO1AM 08525-07	END	32,842
DOWNER, JOHN L	REORGANIZATION OF VISION	RO1NB 07793-01	VIS	67,044
EDWARDS, JOHN S	NEURAL DEVELOPMENT IN ARTHROPODS	RO1NB 07778-01	CBY	21,994
ENSINCK, JOHN W	STUDIES OF THE SYNALBUMIN INSULIN ANTAGONIST IN HUMANS	RO1AM 10215-03	MET	33,687
EVANS, CHARLES A	A STUDY OF VIRUS INDUCED TUMORS	RO1CA 02668-13	VR	70,381
EVERETT, N B	CELL FORMATION AND FATE UTILIZING LABELED NUCLEOTIDES	RO1GM 06309-10	ALY	29,412
EVERETT, NEWTON B	STUDY OF FINE STRUCTURE OF CELLS AND TISSUES	RO1HE 02698-12	MBY	35,478
FARNER, DONALD S	THE MECHANISM OF LIGHT-INDUCED HYPOPHYSIAL ACTIVITY	RO1NB 06187-03	CBY	35,413
FARWELL, GEORGE W	REGIONAL PRIMATE RESEARCH CENTER AT THE UNIV OF WASHNGT	PO6FR 00166-07S1	PME	83,317
FARWELL, GEORGE W	REGIONAL PRIMATE RESEARCH CENTER AT UNIVERSITY OF WASH	PO6FR 00166-08	PME	1,308,542
FARWELL, GEORGE W	BIOMEDICAL SCIENCES SUPPORT	SO5FR 07096-03	NSS	78,608
FERRIER, PIERRE E	CYTOGENETICS OF HUMAN SEXUAL AND GONADAL DIFFERENTIATION	RO1HD 00999-04	GEN	20,976

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INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRG	DOLLARS
WASHINGTON—(CON.)				
FINCH, CLEMENT A	ERYTHROKINETICS	RO1HE 06242-08	HEM	212,318
FINK, B RAYMOND	CELL CULTURE ASSAY OF ANESTHETIC AND ATMOSPHERE GASES	RO1GM 14602-02	PHRA	17,321
FISCHER, EDMOND H	RELATION OF STRUCTURE TO FUNCTION OF ENZYMES	RO1AM 07902-05	PC	60,200
FITZ GERALD, MAURICE J	SIGNIFICANCE OF INNERVATION OF HYPERPLASTIC EPIDERMIS	RO1NB 07433-01	PTHB	17,571
FITZGERALD, MAURICE J	SPINAL CORD REGENERATION	RO1NB 07530-01	CBY	15,745
FLETCHER, T LLOYD	STUDY OF GASTRIN AND RELATED FACTORS IN ANTRAL MUCOSA	RO1AM 09264-04	GM	20,832
FLETCHER, T LLOYD	BIOLOGICALLY SIGNIFICANT POLYCYCLIC DERIVATIVES	RO1CA 01744-16	PHRB	56,662
FLOREY, ERNST	STUDIES ON INHIBITORY AND EXCITATORY TRANSMITTERS	RO1NB 01451-11	PHY	46,528
FOX, JOHN P	EPIDEMIOLOGIC STUDIES OF VIRAL INFECTIONS	RO1AI 07062-03	VR	298,377
FUTTERMAN, SIDNEY	RETINAL METABOLISM	RO1NB 06950-03	PC	34,545
GALE, CHARLES C	CNS-ENDOCRINE INTERACTIONS IN THERMOREGULATION	RO1NB 06622-02S1	PHY	12,479
GALE, CHARLES C	CNS - ENDOCRINE INTERACTIONS IN THERMOREGULATION	RO1NB 06622-03	PHY	34,550
GALLANT, JONATHAN A	REGULATION OF ENZYME SYNTHESIS IN ESCHERICHIA COLI	RO1GM 13626-03	MBC	33,720
GLOMSET, JOHN A	PLASMA CHOLESTEROL METABOLISM	RO1HE 10642-08	PC	32,571
GOODNER, CHARLES J	THE REGULATION OF SUBSTRATES IN DIABETES AND OBESITY	RO1AM 10866-02	MET	23,741
GOODNER, CHARLES J	PLACENTAL REGULATION OF FETAL CARBOHYDRATE METABOLISM	RO1HD 00405-06	HED	17,951
GORBMAN, AUBREY	CELLULAR ACTION OF SEVERAL HORMONES	RO1AM 10902-02	END	33,073
GORBMAN, AUBREY	CENTRAL NERVOUS FUNCTION TO ENDOCRINE STATE	RO1NB 04887-05S1	NEUA	24,651
GORBMAN, AUBREY	STUDIES OF REGULATED CENTRAL NERVOUS FUNCTION	RO1NB 04887-06	NEUA	47,339
GORDON, MILTON P	INCORPORATION OF ANALOGUES INTO TOBACCO MOSAIC VIRUS	RO1AI 03352-08	BIO	38,078
GOUTERMAN, MARTIN	QUANTUM BIOLOGY OF PORPHYRINS	RO1GM 14292-03	BBCA	64,789
GRAYSTON, J THOMAS	PREVENTION OF TRACHOMA	RO1NB 03144-08	VR	132,189
GREEN, JOHN R	BRAIN MONOAMINE OXIDASE PURIFICATION STUDY	RO1NB 06003-03	NEUB	21,817
GRIFFITH CHARLES A	IMPORTANCE OF DIFFERENT PHASES OF GASTRIC SECRETION	RO1AM 03898-17	SGYA	17,839
GRIFFITH, CHARLES A	VAGAL AND HORMONAL PHASES OF GASTRIC SECRETION	RO1AM 04010-09	SGYB	14,960
GRIFFITH, CHARLES A	SELECTIVE GASTRIC VAGOTOMY	RO1AM 08094-05	SGYB	20,615
GROMAN, NEAL B	VIRUS-CELL RELATIONSHIPS	RO1AI 03391-08	VR	13,736
GUNTHEROTH, WARREN G	ACUTE VENOMOTOR CHANGES	RO1HE 03998-10	CVA	15,810
GUNTHEROTH, WARREN G	BLOOD VOLUME AND FLOW IN ABDOMINAL ORGANS IN SHOCK	RO1HE 07158-07	CVA	18,507
HAKOMORI, SEN-ITIROH	IMMUNOSPECIFIC GLYCOLIPIDS OF NORMAL AND CANCER CELLS	RO1CA 10909-01	ALY	18,818
HALL, BENJAMIN D	RELATION OF NUCLEIC ACID STRUCTURE TO GENE FUNCTION	RO1GM 11895-06	GEN	60,454
HANAHAN, DONALD J	LIPOLYTIC ENZYMES	RO1GM 05519-10S1	PC	3,044
HARKER, LAURENCE A	THROMBOPOIESIS	RO1HE 11775-01	HEM	20,377
HAUSCHKA, STEPHEN D	MOLECULAR MECHANISM OF MUSCLE DIFFERENTIATION	RO1NB 08031-01	MBY	57,541
HEALEY, LOUIS A	THE NATURE OF FILIPINO HYPERURICEMIA	RO1AM 11274-02	GMA	12,430
HELLSTROM, INGEGERO	SPECIFIC TRANSPLANTATION ANTIGENICITY OF TUMORS	RO1CA 10189-02	IMB	26,655
HELLSTROM, KARL E	STUDIES ON THE ALLOGENEIC INHIBITION PHENOMENON	RO1CA 10188-01S1	IMB	8,587
HELLSTROM, KARL E	STUDIES ON THE ALLOGENEIC INHIBITION PHENOMENON	RO1CA 10188-02	IMB	67,688
HERRMANN, WALTER L	STEROIDS IN REPRODUCTIVE-PHYSIOLOGY	RO1HD 03286-07	END	53,863
HICKEY, MAURICE J	GENERAL RESEARCH SUPPORT GRANT	SO1FR 05346-07	NSS	50,813
HILLMAN, ROBERT S	THE ROLE OF MARROW MATURATION IN ERYTHROPOIESIS	RO1AM 09950-03	HEM	16,551
HOGNESS, JOHN R	GENERAL CLINICAL RESEARCH CENTER	MO1FR 00037-08	CLR	548,572
HOGNESS, JOHN R	GENERAL CLINICAL RESEARCH CENTER	MO1FR 00133-04	CLR	248,360
HOGNESS, JOHN R		RO1CA 10396-01S1	NSS	6,781
HOGNESS, JOHN R	ESTABLISHMENT OF A CARDIOVASCULAR RESEARCH CENTER	RO1HE 10687-02	HEPB	30,492
HOGNESS, JOHN R	GENERAL RESEARCH SUPPORT GRANT	SO1FR 05432-07	NSS	374,249
HOLCENBERG, JOHN S	CONTROL OF SULFATE METABOLISM IN MAMMALS	RO1AM 11983-01	PC	34,035
HORNBEIN, THOMAS F	CHEMORECEPTOR ROLE IN REGULATION OF VENTILATION	RO1HE 08866-05	PHY	36,037
HOUGIE, CECIL	EFFECT OF LIPIDS ON COAGULATION AND FIBRINOLYSIS	RO1HE 05994-09	HEM	27,991
HUITRIC, ALAIN C	AROMATIC ORD AND CD CHROMOPHORES FOR ABSOLUTE	RO1NB 08329-02	MCHA	16,504
JACKSON, KENNETH L	EFFECT OF IONIZING RADIATION ON ISOLATED CELL NUCLEI	RO1CA 08144-04	RAD	24,553
JENSEN, LYLE H	MOLECULAR STRUCTURE	RO1AM 03288-09	BBCA	29,924
JENSEN, LYLE H	STRUCTURE OF BIOLOGICALLY IMPORTANT COMPOUNDS	RO1GM 10828-14	BBCA	31,587
JENSEN, LYLE H	CRYSTALLOGRAPHIC STUDY OF PROTEINS	RO1GM 13366-03	BBCB	106,977
KASHIWA, HERBERT K	ROLE OF CELLS AS DEPOSITORS OF CALCIUM IN TISSUES	RO1HD 02803-02	DEN	14,953
KATZ, MAX	BLOOD PARASITES OF NORTHWEST FISHES	RO1AI 07228-03	TMP	7,900
KEHL, THEODORE H	SUPPORT FOR PHYSIOLOGY AND BIOPHYSICS COMPUTER	PO7FR 00374-02	COM	112,373
KELLER, PATRICIA J	DIGESTIVE PROTEINS OF HUMAN PANCREAS	RO1AM 08844-04	BIO	19,911
KELLER, PATRICIA J	STUDIES ON PAROTID AND PANCREATIC RIBOSOMES	RO1DE 02457-03	BIO	25,129
KELLEY, VINCENT C	MECHANISM OF GROWTH INHIBITION BY SALICYLATES	RO1HD 01601-03S1	PETA	300
KENNY, GEORGE E	ANTIGEN COMPOSITION OF MYCOPLASMA PNEUMONIAE	RO1AI 06720-04	ALY	42,908
KITABCHI, ABBAS E	FUNCTIONAL STATES OF ADRENALS IN VITAMIN E DEFICIENCY	RO1AM 10720-02	NTN	9,364
KLEBANOFF, SEYMOUR J	ANTIMICROBIAL EFFECT OF PEROXIDASE ROLE IN LEUCOCYTES	RO1AI 07763-03	BM	17,083
KLEBANOFF, SEYMOUR J	UTERINE EOSINOPHIL STRUCTURE AND FUNCTION	RO1HD 02266-03	PTHA	12,337
KOBAYASHI, ALBERT S	ANALYSIS OF THE INTRAOCULAR PRESSURE-VOLUME RELATION	RO1NB 07089-02	VIS	13,938
KREBS, EDWIN G	STUDIES ON MULTIPLE FORMS OF ENZYMES	RO1AM 06942-06	BIO	23,439
KREBS, EDWIN G	THE REGULATORY ENZYMES OF GLYCOGEN METABOLISM	RO1AM 07873-05	BIO	65,412
KRUEGER, ROBERT G	EFFECT OF STREPTOMYCIN ON ANTIBODY SYNTHESIS	RO1AI 08044-02	ALY	17,983
KUPFER, CARL	TRANSNEURONAL CHANGES IN LATERAL GENICULATE NUCLEUS	RO1NB 06952-03	VIS	23,119
KUPFER, CARL	CONTROL OF INTRAOCULAR PRESSURE	RO1NB 07014-03	VIS	20,652
LABBE, ROBERT F	PORPHYRIN AND PURINE BIOSYNTHESIS IN PORPHYRIA	RO1AM 02164-11	MET	34,330
LAGUNOFF, DAVID	CELLULAR UPTAKE OF ANTIGEN	RO1AM 08516-05	ALY	22,572
LENFANT, CLAUDE J	VENTILATION/PERFUSION DISTRIBUTION IN THE LUNG	RO1HE 12174-01	PHY	22,452

TABLE 2—RESEARCH GRANTS, BY AREA, INSTITUTION, AND PRINCIPAL INVESTIGATOR

INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRG	DOLLARS
WASHINGTON—(CON.)				
LOCKARD, ROBERT B	ANIMAL REGULATORY BEHAVIOR IN ARTIFICIAL ENVIRONMENTS	ROIHD 00942-06	EXP	19,295
LUFT, JOHN H	THE FINE STRUCTURE OF MUSCLE AND NERVE	ROIHB 00401-15	CBY	18,390
MACKLER, BRUCE	BIOLOGICAL OXIDATIONS	ROIHE 05457-08	BIO	38,532
MAHONEY, CHARLES P	COMPARATIVE ENZYMOLOGY OF SALIVARY AND THYROID GLANDS	ROIAM 11129-02	END	12,977
MANNIK, MART	STUDIES ON THE RENAL DISEASE OF SYSTEMIC LUPUS	ROIAM 11476-02	IMB	19,750
MANSFIELD, LOUISE W	EXPLORATORY STUDY OF NURSING CARE OF CARDIAC PATIENTS	R21NU 00209-02	NR	26,269
MARTIN, GEORGE M	ABNORMAL PROTEINS IN THE PATHOGENESIS OF DISEASE	ROIAM 04826-08	PTHB	65,455
MC CARTHY, BRIAN J	RNA SYNTHESIS AND THE EXPRESSION OF GENES	ROIIGM 12449-04	BIO	22,979
MC CARTHY, WALTER C	THIOPHTHENE ANALOGS OF DIMETHYLTRYPTAMINE	ROIHB 07750-01	MCHB	4,242
MERENDINO, K ALVIN	PROBLEMS INVOLVED IN THE USE OF PUMP OXYGENATORS	ROIHE 03379-11	SGYA	69,623
MOFFETT, BENJAMIN C, JR	MORPHOLOGY OF PERIODONTAL AND TEMPOROMANDIBULAR JOINT	ROIHD 02280-02S1	DEN	1,165
MOFFETT, BENJAMIN C, JR	MORPHOLOGY OF PERIODONTAL AND TEMPOROMANDIBULAR JOINT	ROIHD 02280-03	DEN	12,323
MORGAN, THOMAS E, JR	BIOSYNTHESIS OF PULMONARY SURFACE ACTIVE LIPIDS	ROIHD 02354-02	MET	26,445
MORRIS, DAVID R	BIOSYNTHESIS AND BIOLOGICAL FUNCTION OF POLYAMINES	ROIIGM 13957-03	PC	21,385
MOTTET, N KARLE	HYDROXYPROLINE IN MORPHOGENESIS	ROIAM 08727-04	MBY	34,025
MOTULSKY, ARNO G	GENETICS IN MEDICINE GENE ACTION IN MAN	PO1GM 15253-02	GMP	491,956
MUSA, BYRON U	HORMONE-PROTEIN INTERRELATIONSHIPS	ROIAM 12192-01	END	15,789
NATKIN, EUGENE	BACTERIOPHAGES OF THE HUMAN ORAL CAVITY	ROIDE 02065-05	BM	18,704
NELSON, WENDEL L	CHEMISTRY AND BIOLOGY OF HYDROXYBENZOMORPHINANS	ROIIGM 13782-03	MCHA	9,866
NESTER, EUGENE W	AROMATIC ACID BIOSYNTHESIS IN BACILLUS SUBTILIS	ROIIGM 09848-07	GEN	30,266
NEURATH, HANS	PHYSICAL BIOCHEMICAL STUDIES OF PROTEINS	ROIIGM 04617-12	BBC	159,804
ODLAND, GEORGE F	FINE STRUCTURE AND CYTOCHEMISTRY OF EPIDERMIS	ROIAM 08368-12	CBY	10,865
OLIVER, THOMAS K, JR	PHYSIOLOGIC STUDIES IN NEWLY BORN HUMAN INFANTS	ROIHD 00747-06	HED	26,328
ORR, JACK E	GENERAL RESEARCH SUPPORT GRANT	SO1FR 05635-02	NSS	34,087
PARKER, FRANK	CORRELATIVE LIPID AND FINE STRUCTURE STUDIES OF SKIN	ROIAM 08569-04	GMA	53,254
PATTON, HARRY D	PHYSIOLOGY OF PYRAMIDAL AND EXTRAPYRAMIDAL DISCHARGE	ROIHB 00395-15	NEUA	17,771
PAULSEN, C ALVIN	PITUITARY-GONADAL INTERRELATIONSHIP	ROIAM 05436-07	END	41,831
PETERSDORF, ROBERT G	THE ROLE OF ENDOGENOUS PYROGEN IN FEVER	ROIJA 03452-08	BM	25,077
PETERSDORF, ROBERT G	PATHOGENESIS OF BACTERIAL MENINGITIS	ROIJA 03456-09	BM	40,543
PION, RONALD J	ENDOCRINE STUDIES OF THE HUMAN FETO-PLACENTAL UNIT	ROIHD 01851-03S1	END	17,834
PION, RONALD J	ENDOCRINE STUDIES OF THE HUMAN FETO-PLACENTAL UNIT	ROIHD 01851-04	END	32,097
PIOUS, DONALD A	GENETIC ANALYSIS WITH MARKERS IN HUMAN CELL STRAINS	ROIIGM 15883-04	GEN	22,678
POCKER, YESHAYAU	PHYSICO CHEMICAL STUDIES OF ENZYMIC HYDRATION	ROIAM 09221-04	BIO	33,958
POCKER, YESHAYAU	HYDROSTATIC HIGH-PRESSURE EFFECTS	ROIIGM 10181-06	BBC	26,980
RABINOWITZ, F MICHAEL	DELAY OF REINFORCEMENT AND CHILDRENS BEHAVIOR	ROIHD 02689-02	MNHA	18,980
RENOLO, ALBERT E	ENDOCRINE DIFFERENTIATION OF PANCREATIC CELLS	ROIAM 12137-01	MET	18,025
RICH, CLAYTON	CONTROL OF CALCIUM ABSORPTION IN HUMANS	ROIAM 09096-03	GM	33,532
RICKETTS, HOWARD J	BRONCHIAL ARTERY OCCLUSION AND PULMONARY EMPHYSEMA	ROIHE 10166-02	RAD	13,928
ROMAN, HERSCHEL L	GENETIC INVESTIGATIONS IN YEAST	ROIJA 00328-17	GEN	40,380
ROSS, RUSSELL	CYTOLOGY AND CHEMISTRY OF WOUND REPAIR AND INFLAMMATION	ROIDE 01703-07	PTHB	31,358
ROWELL, LORING B	CIRCULATORY DISTRIBUTION AND ENERGY METABOLISM	ROIHE 09773-03	CVA	49,793
RUBIN, CYRUS E	NORMAL HUMAN IMMUNOLOGIC DEVELOPMENT-ROLE OF GI TRACT	ROIAM 09912-03	IMB	21,224
RUBIN, CYRUS E	THE PATHOGENESIS OF HUMAN ALIMENTARY MUCOSAL DISEASE	ROIICA 04320-10	GMA	100,030
RUSHMER, ROBERT F	CARDIOVASCULAR INSTRUMENTATION RESEARCH & DEVELOPMENT	ROIHE 07293-07	HEP	253,548
RUTTER, WILLIAM J	MACROMOLECULAR MODIFICATION IN ONTOGENY AND PHYLOGENY	ROIHD 02126-04	PC	57,797
SAGEBIEL, RICHARD W	LANGERHANS CELLS IN BENIGN AND MALIGNANT SKIN DISEASES	ROIICA 10522-01	PTHB	34,054
SANDLER, LAURENCE M.	CYTOGENETIC STUDIES IN DROSOPHILA	ROIIGM 09965-06	GEN	33,833
SCHER, ALLEN M	ELECTRICAL ACTIVITY IN VENTRICLE	ROIHE 01315-16	PHY	32,145
SCHER, ALLEN M	COMPUTER ANALYSIS OF ECG AND BLOOD PRESSURE CONTROL	ROIHE 07746-06	PHY	32,933
SCHWARZ, M ROY	THE CELLULAR SEQUENCE OF IMMUNITY	ROIJA 07509-02	IMB	15,110
SCRIBNER, BELDING H	DIALYSIS IN THE TREATMENT OF CHRONIC UREMIA	PO1AM 06741-06	AMP	438,495
SHEPARD, THOMAS H	LABORATORY FOR THE STUDY OF HUMAN EMBRYOS AND FETUSES	ROIHD 00836-05	HEO	19,059
SHEPARD, THOMAS H	STUDIES OF ACHONDROPLASIA IN THE RABBIT AND MAN	ROIHD 02392-02	HED	13,913
SHERRIS, JOHN C	MECHANISM OF BACTERIAL RESISTANCE TO CERTAIN ANTIBIOTIC	ROIJA 07124-03	BM	10,475
SIMPSON, DAVID P	INTERACTIONS OF CO2-FIXATION AND THE KREBS CYCLE	ROIAM 09822-03	MET	23,931
SMITH, NATHAN J	ERYTHROPOIESIS IN INFANT PROTEIN-CALORIE MALNUTRITION	ROIAM 12017-01	HEM	11,864
SMITH, ORVILLE A, JR	CENTRAL NERVOUS CONTROL OF CARDIOVASCULAR FUNCTION	ROIHE 04741-09	PHY	30,890
SMUCKLER, EDWARD A	CYTOCHEMICAL STUDIES IN LIVER INJURY	ROIAM 08686-04	PTHB	65,158
SREEBNY, LEO M	PRELIM. PLANNING OF A RESEARCH CENTER IN ORAL BIOLOGY	P13DE 02600-02	NSS	258,721
SREEBNY, LEO M	ORAL PATHOLOGY ELECTRON MICROSCOPIC INVESTIGATIONS	ROIDE 01701-05S1	DEN	758
SREEBNY, LEO M	ORAL PATHOLOGY ELECTRON MICROSCOPIC INVESTIGATIONS	ROIDE 01701-06	DEN	25,659
SREEBNY, LEO M	SALIVARY GLAND DNASE S	ROIDE 02120-04	DEN	24,245
SREEBNY, LEO M	ELECTRON MICROSCOPIC STUDIES OF ORAL EPITHELIUM	ROIDE 01925-05	DEN	22,013
STERN, IRVING B	IONIC MECHANISMS OF REPETITIVE DISCHARGE	ROIHB 05934-04	NEUB	15,972
STEVENS, CHARLES F	STUDIES IN NATURAL OXYGEN HETEROCYCLES	ROIIGM 12095-09S1	MCHB	734
STOUT, GEORGE H	STUDIES IN NATURAL OXYGEN HETEROCYCLES	ROIIGM 12095-10	MCHB	25,687
STOUT, GEORGE H	ANALYSIS OF FACTORS IN FAILURE OF ARTERIAL SURGERY	ROIHE 10592-02	SGYA	11,194
STRANDNESS, D E, JR	ELECTRON MICROSCOPY OF REACTIONS OF IMMATURE BRAIN	ROIHB 07727-01	PTHA	20,934
SUMI, SHUZO M	HYPOTHALAMIC THERMAL CHANGES AND PITUITARY FUNCTION	ROIHB 05432-04	NEUA	31,583
SUNDSTEN, JOHN W	ENERGY-UTILIZING PROCESSES IN THE CNS	ROIHB 05424-04	NEUB	33,671
SWANSON, PHILLIP D	FERTILIZATION AND EMBRYONIC DIFFERENTIATION IN MAMMALS	ROIHD 01110-04	REB	21,032
SZOLLOSI, DANIEL G	GRANULE SYNTHESIS IN SALIVARY GLANDS	ROIDE 02329-02S1	DEN	227
TAMARIN, ARNOLD	GRANULE SYNTHESIS IN SALIVARY GLANDS	ROIDE 02329-03	DEN	22,216

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INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRG	DOLLARS
WASHINGTON—(CON.)				
TARTAR, VANCE	GRAFTING AND NUCLEAR TRANSPLANTATION IN PROTOZOA	R01CA 03637-12	CBY	16,918
TELLER, DAVID C	BIOPHYSICAL STUDY OF ASSOCIATION REACTIONS OF ENZYMES	R01GM 13401-03	PC	31,076
TELLER, DAVID A	VISUAL INCREMENT THRESHOLDS	R01NB 08070-01	EXP	30,108
THIEME, FREDERICK P	RESEARCH IN MENTAL RETARDATION AND CHILD DEVELOPMENT	P01HD 02274-02	HOP	61,877
THOMAS, EDWARD D	ADULT LEUKEMIA RESEARCH CENTER	P02CA 10895-01	SSS	480,411
THOMAS, EDWARD DONNALL	NORMAL AND ABNORMAL BONE MARROW METABOLISM	R01AM 07898-05	HEM	44,436
THOMAS, EDWARD DONNALL	SEPARATION OF BLOOD BY CONTINUOUS FLOW CENTRIFUGE	R01CA 10167-02	PHRB	28,589
TOWE, ARNOLD L	SINGLE UNIT ANALYSIS IN THE SOMATOSENSORY SYSTEM	R01NB 00396-15	NEUA	30,946
TOWE, ARNOLD L	HIGH-SPEED DATA ACQUISITION AND COMPUTER ANALYSIS	R01NB 05136-05	COM	65,267
TURCK, MARVIN	EPIDEMIOLOGY OF E COLI INFECTIONS	R01AI 06311-04	BM	29,462
VAN ARSDEL, PAUL P, JR	MECHANISMS OF ALLERGIC HISTAMINE RELEASE	R01AI 01510-12	IMB	11,546
VAN CITTERS, ROBERT L	CARDIOVASCULAR DYNAMICS IN AMBULATORY PRIMATES	R01HE 08433-05	PHY	23,118
VINZENZI, FRANK F	NEUROHORMONES IN SPECIALIZED TISSUES OF THE HEART	R01HE 07321-06	PHRA	19,654
VOLWILER, WADE	METABOLISM OF PLASMA PROTEINS	R01AM 02803-09	MET	52,658
WALKER, RICHARD B	UPTAKE OF IRON BY MAN FROM PLANT FOOD SOURCES	R22AM 06985-05	SSS	15,968
WALSH, KENNETH A	TRYPSINOGEN STUDIES	R01GM 13354-02S1	PC	1,456
WALSH, KENNETH A	TRYPSINOGEN STUDIES	R01GM 13354-03	PC	19,560
WARD, ARTHUR A JR	EPILEPSY	P01NB 04053-06	NBPA	359,266
WARD, ARTHUR A, JR	EPILEPSY RESEARCH	P01NB 04053-05S1	NBPA	7,861
WEDGEWOOD, RALPH J	NEONATAL CLINICAL RESEARCH FACILITY	P02HD 03031-01	CLR	103,450
WEDGWOOD, RALPH J	ONTOGENY OF IMMUNITY IN THE MEXICAN AXOLOTL	R01AI 06873-03	IMB	12,490
WEDGWOOD, RALPH J	DEVELOPMENTAL AND GENETIC DEFECTS OF IMMUNITY	R01AI 07073-03	ALY	28,910
WEINSTEIN, BORIS	SYNTHESIS OF GLUCAGON AND GLUCAGON ANALOGS	R01AM 12241-01	MCHB	13,896
WEINSTEIN, BORIS	GLUCAGON AND GLUCAGON ANALOGS SYNTHETIC STUDIES	R01AM 12241-02	MCHB	47,261
WEINSTEIN, BORIS	SYNTHESIS OF FERREDOXIN HYDROGENASE	R01AM 12616-01	MCHA	50,713
WHISLER, HOWARD C	BIOLOGY OF INTESTINAL FUNGI THE TRICHOMYCETES	R01AI 05882-06	MBC	20,800
WHITE, LOWELL E, JR	ANATOMY OF THE LIMBIC SYSTEM	R01NB 02896-07S1	NEUA	476
WHITE, LOWELL E, JR	ANATOMY OF THE LIMBIC SYSTEM	R01NB 02896-08	NEUA	31,007
WHITE, THOMAS T	SURGICAL STUDIES OF HUMAN PANCREATIC FUNCTIONS	R01AM 11358-02	GMA	47,556
WHITELEY, HELEN R	METABOLISM OF ANAEROBIC MICROCOCCI	R01CA 03931-10	BIO	37,819
WIEDERHIELM, CURT A	SMALL VESSEL BEHAVIOR	R01HE 07152-07	PHY	20,453
WIEDERHIELM, CURT A	CAPILLARY RESEARCH	R01HE 10861-02	PHY	36,685
WILCOX, PHILIP E	PROTEIN CRYSTALS REACTIONS AND HEAVY ATOM DERIVATIVES	R01GM 15163-02	BBCB	44,860
WILLIAMS, ROBERT H	DIABETES STUDIES	P01AM 02456-10	AMP	141,868
WOODBURY, J WALTER	ION EFFECTS ON POTENTIALS AND IMPEDANCE OF MUSCLES	R01NB 01752-10	PHY	32,820
ZINNER, NORMAN R	CLINICAL URODYNAMICS	R01AM 11249-01S1	SGYA	6,612
ZINNER, NORMAN R	CLINICAL URODYNAMICS	R01AM 11249-02	SGYA	30,364
INSTITUTION TOTAL	229	12,155,645		
STATE TOTAL	296	14,330,272		
WEST VIRGINIA				
MORGANTOWN				
WEST VIRGINIA UNIVERSITY				
ALBRINK, MARGARET J	SERUM TRIGLYCERIDES AND DIABETIC COMPLICATIONS	R01AM 09252-04	MET	22,543
ANIDO, VICENTE	CREATIVE PHOSPHOKINASE METHODS, ISOZYMES, APPLICATION	R01GM 12884-04	SSS	27,180
BLOOR, BYRON M	W V U INTERDISCIPLINARY HEAD INJURY RESEARCH PROGRAM	P01NB 07733-01	NBPA	80,977
BLOOR, BYRON M	CEREBRAL BLOOD FLOW, OXYGEN TENSION, PRESSURE	R01NB 03343-08	NEUA	49,593
BURRELL, ROBERT G	OPOSSUM IMMUNOLOGY	R01AI 07642-01S1	IMB	1,074
BURRELL, ROBERT G	OPOSSUM IMMUNOLOGY	R01AI 07642-02	IMB	9,813
BYARS, EDWARD F	MECHANICAL PROPERTIES OF HUMAN BONE RELATED TO AGE	R01AM 06041-07	SSS	26,112
CANADY, WILLIAM J	THERMODYNAMICS OF SOLUTION SOME ENZYME APPLICATIONS	R01GM 08122-06S2	BBCA	3,775
CRAYTHORNE, NORMAN W	ANESTHESIA, CARDIAC FUNCTION	R01HE 06151-07	SGYB	27,710
CRAYTHORNE, NORMAN W, B.	ANESTHESIA AND RENAL FUNCTION	R01HE 09912-03	PHRA	27,734
FLEMING, WILLIAM W	CHANGES IN DRUG SENSITIVITY PRODUCED BY RESERPINE	R01NB 03034-08	PHRA	14,219
FLINK, EDMUND B	CLINICAL CENTER FOR METABOLIC STUDIES	P02AM 05578-07	AMP	218,271
FLINK, EDMUND B	ROLE OF MAGNESIUM IN DELIRIUM TREMENS	R01NB 03152-08	MET	22,803
HALL, JOHN E	TREMATODE-ARTHROPOD INTERRELATIONSHIPS	R01AI 03356-08	TMP	13,598
HORVATH, DONALD J	FERTILIZATION AS AN ENVIRONMENTAL HEALTH FACTOR	R01ES 00150-02	TOX	88,550
JONES, BARBARA	CANCER CHEMOTHERAPY IN A COOPERATIVE GROUP	R10CA 07757-04	SRC	39,283
JONES, CHARLES A	THE RELATION OF TREATMENT TO DIABETIC COMPLICATIONS	R01AM 09113-05	SSS	49,926
KIMMEL, DONALD L	AFFERENT NERVE PATHWAYS IN THE BRAIN AND SPINAL CORD	R01NB 07021-03	NEUA	10,283
KRAUSE, REGINALD F	METABOLIC ROLE OF VITAMIN A	R01AM 11597-02	NTN	13,843
LINDSAY, HUGH A	AGE AND ATROPHY OF DISUSE	R01HO 02919-02	GMB	28,190
LOTSPEICH, FREDERICK J	NEW POTENTIAL ANTI-TUMOR AGENTS	R01CA 10270-02	MCHB	15,100
LOTSPEICH, FREDERICK J	METABOLISM OF B-CAROTENE	R01HE 06410-06	PC	14,000
MC PHILLIPS, JOSEPH J	TOLERANCE TO CHOLINESTERASE INHIBITORS	R01HO 03322-01	PHRA	6,078
MENGOLI, HENRY F	QUANTITATION OF TANNED CELL HEMAGGLUTINATION	R01CA 08352-03	ALY	19,288
MORGAN, DAVID Z	COOPERATIVE STUDY OF DRUGS AND CORONARY HEART DISEASE	R01HE 10515-02S1	SRC	353
MORGAN, DAVID Z	COOPERATIVE STUDY OF DRUGS AND CORONARY HEART DISEASE	R01HE 10515-03	SRC	24,836
OLSON, NORMAN O	AVIAN MYCOPLASMA ARTHRITIS	R01AM 06040-07	BM	26,557
RAFTER, GALE W	CHEMISTRY OF ENDOTOXIN-LEUCOCYTE INTERACTION	R01AI 07322-03	BM	2,866
RANDOLPH, KENNETH V	GENERAL RESEARCH SUPPORT GRANT	S01FR 05347-07	NSS	41,344

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INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRG	DOLLARS
WEST VIRGINIA—(CON.)				
REYER, RANDALL W	LENS AND NEURAL RETINA DEVELOPMENT AND REGENERATION	R01NB 01544-11	CBY	15,242
ROBINSON, ROBERT L	CATECHOLAMINE DEPLETION AND ADRENAL MEDULLARY OUTPUT	R01AM 06592-05S1	PHRA	1,670
ROBINSON, ROBERT L	CATECHOLAMINE DEPLETION AND ADRENAL MEDULLARY OUTPUT	R01AM 06592-06	PHRA	8,668
SLACK, JOHN M	CLASSIFICATION OF ACTINOMYCES	R01AI 01801-11A1	BM	24,630
SLACK, JOHN M	FA STUDY OF FILAMENTOUS BACTERIA IN PERIODONTAL DISEASE	R01DE 02675-01	BM	17,894
SLEETH, CLARK K	GENERAL RESEARCH SUPPORT GRANT	S01FR 05433-07	NSS	154,248
STEVENSON, MABEL M	HYPOTHERMIA AND INTRAVASCULAR COAGULATION	R01HE 10144-03	HEM	16,686
TARNAY, THOMAS J	AORTIC COARCTATION SURGERY RENIN AND ANGIOTENSIN	R01HE 09854-03	SGYA	27,834
TARNAY, THOMAS J	DESIGN OF STREAMLINED ARTIFICIAL HEART VALVES	R01E 11345-02	SGYB	34,823
THOMAS, JOHN A	ACTION OF STEROIDS ON CARBOHYDRATE METABOLISM	R01AM 11749-01S1	MET	7,265
VOELZ, HERBERT G	STRUCTURE AND DIFFERENTIATION OF BACTERIAL CYTOPLASM	R01AI 06600-04	BM	17,805
WILSON, MICHAEL F	CARDIOVASCULAR CONTROL AND CORRELATES OF CONDITIONING	R01HE 10234-03	PHY	22,609
ZIMMERMANN, BERNARD	REGULATION OF ELECTROLYTE BALANCE IN SURGERY	R01AM 04577-09	SGYB	65,024
ZUGIBE, FREDERICK T	HUMAN ARTERIES AGING AND ATHEROSCLEROSIS	R01HE 10204-03	PTHA	12,559
INSTITUTION TOTAL	43	1,352,856		
STATE TOTAL	43	1,352,856		
WISCONSIN				
MADISON				
AMERICAN FOUNDATION FOR BIOLOGICAL RESEARCH				
LUYET, BASILE J	HEMOLYSIS BY FREEZING AND ITS PREVENTION	R01HE 06474-07	HEM	35,617
MAC KENZIE, ALAN P	MECHANISMS OF FREEZE-DRYING AND FREEZE-SUBSTITUTION	R01GM 15143-01	CBY	22,445
MAC KENZIE, ALAN P	PRESERVATION OF ERYTHROCYTES BY LIMITED FREEZE-DRYING	R01HE 11386-02	HEM	38,182
INSTITUTION TOTAL	3	96,244		
JACKSON FOUNDATION				
PARSONS, WILLIAM B, JR	REDUCTION OF BLOOD CHOLESTEROL LEVELS WITH NIACIN	R01HE 03787-09S1	MET	5,645
PARSONS, WILLIAM B, JR	COOPERATIVE STUDY OF DRUGS AND CORONARY HEART DISEASE	R01HE 10709-03	SRC	79,378
INSTITUTION TOTAL	2	85,023		
WISCONSIN STATE DEPT. OF HEALTH AND SOCIAL SERVICES--CENTRAL WISC. COLONY AND TRAINING SCHOOL				
RENEAU, JOHN P	E E G AUDIOMETRICS IN THE SEVERELY RETARDED	R01HD 01655-03	CMS	18,416
SINDBERG, RONALD M	INTENSIVE NURSING CARE WITH THE SEVERELY RETARDED	R02NU 00281-01	NR	37,031
WELKER, CAROL	MICROMAPPING STUDIES OF SOMATIC SENSORY NEOCORTEX	R01NB 07295-02	NEUB	12,566
INSTITUTION TOTAL	3	68,013		
WISCONSIN UNIVERSITY OF				
ADLER, JULIUS	BIOCHEMISTRY OF LATENT VIRUS PRODUCTION LYSOGENY	R01AI 03603-08	PC	47,999
ALBERTY, ROBERT A	OPERATION OF THE WISCONSIN REGIONAL PRIMATE RESEARCH CEN.....	P06FR 00167-08	PME	1,535,404
ALLEN, JAMES R	PATHOGENESIS OF HEPATIC VENO-OCCLUSIVE DISEASE	R01HE 10941-02	PTHA	18,624
ANDEREGG, JOHN W	BIOPHYSICAL STUDIES ON MACROMOLECULES	R01GM 10692-06	BBCB	39,600
ANDERSON, LAURENS	SYNTHESIS OF COMPOUND SACCHARIDES	R01AM 10588-03	MCHA	42,801
ANGEVINE, D MURRAY	ELECTRONMICROSCOPY OF PATHOLOGIC ALTERATIONS	R01GM 09387-07	PTHA	11,478
ANSFIELD, FRED J	COOPERATIVE STUDY OF BREAST CANCER HORMONE THERAPY	R10CA 04594-08A1	SRC	16,943
AUERBACH, ROBERT	MOUSE THYMUS MORPHOGENESIS AND LEUKEMOGENESIS	R01CA 05281-08	PTHB	26,796
AUERBACH, ROBERT	DEVELOPMENT OF IMMUNITY IN LOWER VERTEBRATES	R01HD 02440-03	IMB	19,698
AZEN, EDWIN A	STUDY OF PROTEINS FROM THE ERYTHOCYTE MEMBRANE	R01AM 09555-03	HEM	10,216
BACH, FRITZ H	GENETIC FACTORS IN TRANSPLANT SURVIVALS	P02AI 08439-01	IMB	153,963
BACKUS, MYRON P	FUNGAL PARASITISM AND HOST RESPONSE	R01AI 08234-02	BM	22,934
BECK, STANLEY D	BIOLOGY AND CHEMISTRY OF RESISTANCE TO INSECTS	R01GM 05093-12	TMP	16,128
BECK, STANLEY D	PHYSIOLOGY OF INSECT PHOTOPERIODISM	R01GM 07557-08	TMP	30,716
BEEMAN, WILLIAM W	MOLECULAR BIOPHYSICS RESEARCH	R01AI 08233-01	BBCA	111,822
BEINERT, HELMUT	COMPONENTS AND PATHWAYS IN BIOLOGICAL OXIDATION	R01GM 12394-04	BBCB	104,231
BERGDOLL, MERLIN S	PURIFICATION AND CHEMISTRY OF THE ENTEROTOXINS	R01AI 07615-03	TOX	102,402
BERMAN, DAVID T	PATHOGENICITY OF STAPHYLOCOCCUS AUREUS	R01AI 05187-04	BM	35,201
BERMAN, DAVID T	THE MECHANISM OF IMMUNITY IN BRUCELLA INFECTION	R01AI 07868-02	BM	26,824
BERSON, JEROME A	MULTIPLE CARBONIUM ION REARRANGEMENTS	R01AM 07505-06	MCHA	19,140
BLAEDEL, WALTER J	CONTINUOUS BIOANALYTICAL METHODS	R01GM 12795-02	BBCB	11,886
BLAEDEL, WALTER J	CONTINUOUS SENSORS AND SEPARATORS FOR TRACE ANALYSIS	R01GM 14310-02	BBCB	16,128
BLOODWORTH, J M, JR	EXPERIMENTAL DIABETIC MICROANGIOPATHY	R01AM 09659-03	PTHA	45,718
BLOODWORTH, J M, JR	ALLOXAN-INDUCED HEREDITARY DIABETES MELLITUS	R01AM 10920-02	PTHA	10,325
BOCK, ROBERT M	TECHNIQUES FOR DETERMINING RIBONUCLEIC ACID STRUCTURE	R01GM 12395-04	BIO	30,498
BOCK, ROBERT M	BIOMEDICAL SCIENCES SUPPORT	S05FR 07098-03	NSS	162,002
BOUSH, GEORGE M	BACTERIAL-INSECT ASSOCIATIONS	R01GM 13460-02	TMP	13,663
BRILL, WINSTON J	CATABOLITE REPRESSION IN SALMONELLA TYPHIMURIUM	R01AM 12153-01	MBC	40,633
BROWN, RAYMOND R	METABOLISM OF HYDROXYKYNURENINE	R01CA 03274-11	MET	27,300
BRUNGARDT, V H	RELATION OF RUMEN FUNCTION TO LIPOGENESIS	R01AM 08647-04	NTN	12,806
BRYAN, GEORGE T	FACTORS INFLUENCING BLADDER CARCINOGENESIS	R01CA 10017-02	SGYA	40,282
BRYAN, GEORGE T	INDUCTION OF LARGE BOWEL CARCINOMA IN MICE AND RATS	R01CA 10341-02	PTHB	33,064
BUNGE, HELEN L	MEASUREMENT OF THE SURGICAL PATIENTS WELFARE	R21NU 00301-01	NR	26,244
BURNS, WILLIAM C	IMMUNE MECHANISMS IN CECAL COCCIDIOSIS	R01AI 04101-07	TMP	30,462
BURRIS, ROBERT H	METABOLISM OF FIXED NITROGEN BY PLANTS AND BACTERIA	R01AI 00848-13	MBC	36,478
CLATANOFF, DALLAS V	INTRAVASCULAR CLOTTING IN HYPOFIBRINOGENEMIA	R01HE 09620-03S1	HEM	1,170

TABLE 2—RESEARCH GRANTS, BY AREA, INSTITUTION, AND PRINCIPAL INVESTIGATOR

INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRG	DOLLARS
WISCONSIN—(CON.)				
CLIFTON, KELLY H	CHEMICAL MODIFICATION OF RADIATION EFFECTS	ROI1CA 08486-03	RAD	26,724
COHEN, PHILIP P	STUDY OF CITRULLINE AND CARBAMYL ASPARTATE BIOSYNTHESIS	ROI1CA 03571-11	BIO	74,608
CREE, EDNA M	CHRONIC HYPERCAPNIA AND RENAL RESPONSE IN THE HUMAN	ROI1HE 09803-03	CVB	7,708
CRIPPS, DEREK J	ACTION SPECTRA AND BIOCHEMISTRY OF PHOTODERMATOSES	ROI1AM 09995-03	GMA	25,298
CROW, JAMES F	PROGRAM PROJECT IN GENETICS	PO1GM 15422-01	GMP	738,765
CURET, LUIS B	UPTAKE OF AMINO ACIDS BY THE FETUS OF THE EWE	ROI1HD 03255-01A1	HED	27,329
CURRERI, A R	CENTRAL CLINICAL DRUG EVALUATION PROGRAM	R10CA 06071-07	SRC	443,285
CURRERI, ANTHONY R	CANCER RESEARCH CENTER	PO2CA 06749-06	SSS	78,878
DAHL, LAWRENCE F	X-RAY STUDIES OF MACROLIDE AND OTHER ANTIBIOTICS	ROI1AI 01795-02	BBCB	55,636
DAVIES, JULIAN E	AMINOGLYCOSIDE ANTIBIOTICS AND THE RIBOSOME	ROI1HD 02362-02	BIO	40,893
DAVIS, MATTHEW D	DIABETIC RETINOPATHY - VISION OUTPATIENT CENTER	P15NB 06921-03	NBPB	30,117
DAVIS, MATTHEW D	DIABETIC RETINOPATHY	ROI1NB 06041-03	VIS	55,963
DE FOLIART, GENE R	ARBOVIRUS- AND HOST-RELATIONS OF WISCONSIN ARTHROPODS	ROI1AI 07453-02	TMP	34,976
DE LUCA, HECTOR F	STUDIES ON THE MECHANISM OF ACTION OF VITAMIN D	ROI1AM 05800-07	NTN	46,378
DE MARS, ROBERT I	GENETIC STUDIES WITH CULTIVATED MAMMALIAN CELLS	ROI1GM 06983-09	GEN	28,632
DEIBEL, ROBERT H	METABOLISM OF GROUP D STREPTOCOCCI	ROI1AI 07691-03	MBC	12,828
DEUTSCH, HAROLD F	HYPERGLOBULINEMIC PROTEINS OF HUMAN PLASMA	ROI1CA 01786-14	PC	58,409
DICK, ELLIOT C	STUDIES ON COMMON RESPIRATORY DISEASES	ROI1AI 01299-12	VR	42,000
DONHOWE, JOHN M	A HIGH VOLTAGE ELECTRON MICROSCOPE SOURCE	ROI1GM 15349-01	SSS	124,049
EASTERDAY, BERNARD C	INTRAUTERINE ENVIRONMENTS INJURIOUS TO PRENATAL LIFE	ROI1HD 02397-02	VR	46,938
ECHOLS, G HARRISON, JR	GENETIC AND CHEMICAL STUDIES OF ENZYME REPRESSION	ROI1GM 08407-08	GEN	73,948
EICHMAN, PETER L	GENERAL RESEARCH SUPPORT GRANT	SO1FR 05435-07	NSS	299,970
ENSGN, JERALD C	CONTROL OF MORPHOGENESIS IN ARTHROBACTER	ROI1AI 06506-04	MBC	15,083
FAHIEN, LEONARD A	REGULATORY SYSTEMS IN HEART AND OTHER SYSTEMS	ROI1HE 10678-02	BIO	21,108
FERRY, JOHN D	VISCOELASTIC PROPERTIES OF BIOLOGICAL MACROMOLECULES	ROI1GM 10135-06	BBCB	35,963
FITCH, WALTER M	MECHANISM OF ACTION OF A BACTERIAL CHOLINESTERASE	ROI1NB 04565-06	BIO	18,205
FORSTER, FRANCIS M	EPILEPSY RESEARCH CENTER	PO1NB 03360-07	NBPA	148,988
FORSTER, FRANCIS M	EPILEPSY RESEARCH CENTER	PO1NB 03360-08	NBP	266,795
FOX, ALLEN S	GENETICS OF PROTEIN SYNTHESIS AND DIFFERENTIATION	ROI1GM 11777-05	GEN	52,860
GARVER, JOHN C	BUDGET FOR SUPPORT OF PILOT PLANT OPERATIONS	PO7FR 00226-04	BIO	20,082
GILBOE, DAVID D	METABOLISM OF THE BRAIN	ROI1NB 05961-03	NEUB	39,043
GOERING, HARLAN L	TRANSFORMATIONS IN BICYCLIC SYSTEMS	ROI1GM 14134-02	MCHA	30,915
GOLDMAN, DEXTER S	ENZYME SYSTEMS IN THE MYCOBACTERIA	ROI1AI 01816-11	BM	31,588
GOLDMAN, DEXTER S	ELECTRON TRANSPORT MECHANISMS IN THE MYCOBACTERIA	ROI1AI 02416-09S1	BIO	12,313
GOLDSTEIN, ROBERT	RACE AND SEX DIFFERENCES IN AUDITORY RESPONSIVITY	ROI1NB 07417-01	CMS	62,116
GOODFRIEND, THEODORE L	BIOLOGICALLY ACTIVE POLYPEPTIDES	ROI1HE 09922-03	PHRA	25,860
GORDON, EDGAR S	LIPID METABOLISM IN OBESITY AND DIABETES	ROI1AM 09187-04	MET	51,071
GOSTING, LOUIS J	FUNDAMENTALS OF DIFFUSION OF BIOLOGICAL MATERIALS	ROI1AM 05177-08	BBC	13,395
GOSTING, LOUIS J	FUNDAMENTALS OF DIFFUSION OF BIOLOGICAL MATERIALS	ROI1AM 05177-09	BBCA	62,616
GRAHAM, FRANCES K	HABITUATION OF THE NEWBORN HEART RATE RESPONSE	ROI1HD 01490-02S1	EPA	1,108
GRAHAM, FRANCES K	HABITUATION OF THE NEWBORN HEART RATE RESPONSE	ROI1HD 01490-03	EXP	21,161
GREEN, DAVID E	MOLECULAR BIOLOGY OF MEMBRANE SYSTEMS	PO1GM 12847-04	GMP	374,429
GUILLERY, RAINER W	ARCHITECTONIC AND SYNAPTIC ORGANIZATION IN THE BRAIN	ROI1NB 06662-02	NEUB	46,908
HAGEDORN, DONALD J	MECHANISMS OF PATHOGENICITY IN FACULTATIVE PARASITES	ROI1AI 04259-07	BM	13,070
HALVORSON, HARLYN O	STUDIES ON PROTEIN METABOLISM IN YEAST	ROI1AI 01459-12	BIO	48,091
HALVORSON, HARLYN O	REGULATION OF DIFFERENTIATION IN GERMINATING SPORES	ROI1GM 12332-04	BIO	29,340
HANSON, ROBERT P	WILDLIFE RESERVOIRS OF ARBOVIRUSES	ROI1AI 00771-14	VR	40,516
HARPER, ALFRED E	EFFECTS OF ALTERED DIET AND PLASMA AMINO ACID PATTERN	ROI1AM 10747-02	NTN	38,398
HARPER, ALFRED E	EFFECT OF DIET AND HORMONES ON ENZYMES AND METABOLISM	ROI1AM 10748-02	NTN	33,770
HART, PHILLIP A	A SHORT TOTAL SYNTHESIS OF 11-FUNCTIONALIZED STEROIDS	ROI1AM 10399-03	MCHA	11,023
HARTMANN, HENRIK A	NUCLEOTIDE AND ENZYME LEVELS IN STIMULATED NEURONS	ROI1NB 01305-12	PTHA	29,527
HEBER, RICK F	A PROGRAM OF CENTER RESEARCH	PO1HD 03352-01	HDP	130,965
HICKS, G PHILLIP	SUPPORT OF LABORATORY COMPUTER RESOURCES	PO7FR 00249-04	COM	374,671
HIFT, HELEN	CARDIAC HYPERTROPHY	ROI1HE 09448-04	CVB	26,854
HIFT, HELEN	SUBCELLULAR STUDIES ON IMPLANTED HEARTS	ROI1HE 10092-03	CVA	14,150
HILSENHOFF, WILLIAM L	MICROSPORIDIAN PARASITES OF CHIRONOMUS PLUMOSUS	ROI1GM 13198-02	TMP	23,880
HINSBILL, RONALD D	ACQUIRED CELLULAR RESISTANCE IN BRUCellosIS	ROI1AI 08299-01	ALY	17,774
HINZE, HARRY C	STUDIES ON TUMOR VIRUS-HOST CELL INTERACTIONS	ROI1CA 10395-01	VR	36,387
HOKIN, LOWELL E	PHOSPHOLIPIDS AND SECRETION IN BRAIN AND GLANDS	ROI1NB 01730-10	PHRA	80,666
HOKIN, MABEL R	CONTROL OF BRAIN MEMBRANE ACTIVITY BY NEUROHUMORS	ROI1NB 06745-02	NEUB	52,259
INMAN, ROSS B	STRUCTURE AND REPLICATION OF DNA	ROI1GM 14711-02	VR	63,313
IRWIN, M R	GENETIC STUDIES OF ANTIGENS	ROI1AI 01643-15	GEN	36,366
JOHNSON, MARVIN J	CHEMISTRY OF MICROBIAL GROWTH	ROI1AI 02967-09	BIO	26,052
JOO, PATRICIA	CHILDRENS CANCER STUDY GROUP A	R10CA 05436-08	SRC	26,975
KAESBERG, PAUL J	STRUCTURE OF BIOLOGICAL MACROMOLECULES	ROI1AI 01466-12	BBCA	119,271
KAUFFMAN, ROBERT G	DEPOSITION OF EYE LENS PROTEIN DURING DIETARY STRESS	ROI1NB 07246-01	VIS	24,167
KEESEY, ULKER T	VISUAL PROCESSES WITH A MOTIONLESS RETINAL IMAGE	ROI1NB 06151-02	VIS	32,045
KELSEY, CHARLES A	IMPROVEMENT OF DIAGNOSTIC ULTRASONICS	ROI1CA 08958-02	SSS	21,553
KENNAN, ALFRED L	THE BIOLOGICAL EFFECTS OF INSULIN	ROI1AM 09852-03	MET	19,678
KHORANA, H GOBIND	NUCLEIC ACIDS AND THE BIOLOGICAL CODE	ROI1CA 05178-08	BIO	175,250
KORNGUTH, STEVEN E	BIOCHEMICAL STUDIES ON A CATIONIC PROTEIN FROM BRAIN	ROI1NB 05631-04	IMB	34,434
KUBINSKI, HENRY A	CONTROL OF RNA SYNTHESIS IN ANIMAL CELLS	ROI1CA 08959-02	MBY	26,683
KUPCHAN, S MORRIS	PHARMACOLOGICALLY ACTIVE NATURAL PRODUCTS	ROI1CA 04500-10	MCHA	25,008

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INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRG	DOLLARS
WISCONSIN—(CON.)				
KUPCHAN, S MORRIS	CHEMISTRY OF THE STEROIDAL ALKALOIDS	RO1HE 02275-13	MCHA	36,820
KUPCHAN, S MORRIS	CHEMISTRY OF BIOLOGICALLY ACTIVE NATURAL PRODUCTS	RO1HE 02952-12	MCHA	37,800
KUPCHAN, S MORRIS	GENERAL RESEARCH SUPPORT GRANT	S01FR 05456-06	NSS	76,655
KURLAND, CHARLES G	FUNCTION OF RIBOSOMES IN PROTEIN SYNTHESIS	RO1GM 12411-04	BIO	30,814
KURLAND, CHARLES G	STRUCTURE, FUNCTION AND BIOSYNTHESIS OF RIBOSOMES	RO1GM 13832-03	MBY	63,058
LALICH, JOSEPH J	VASCULAR INJURY CAUSED BY ANGIOTOXIC CHEMICALS	RO1HE 12162-06	PTHA	26,854
LARDY, HENRY A	CONTROL PROCESSES IN MAMMALIAN CELLS	RO1AM 10334-03	PC	168,807
LEVENTHAL, HOWARD	MEASUREMENT OF EMOTION AND ITS ALTERATION BY NURSING	RO2NU 00302-01	NR	32,236
LINKSWILER, HELLEN M	VITAMIN B6 METABOLISM IN MAN	RO1AM 06675-06	NTN	18,565
LOBECK, CHARLES C	DEVELOPMENT OF THE HUMAN SWEAT GLAND DURING GROWTH	RO1AM 06365-06	GM	33,515
METZENBERG, ROBERT L	THE GENETIC CONTROL OF PROTEIN SPECIFICITY	RO1GM 08995-07	GEN	24,792
MINIFIE, FRED D	ULTRASONIC MEASUREMENT OF LARYNGEAL SIZE AND MOTION	RO1NB 07242-01	CMS	33,268
MOSSMAN, HARLAND W	A STUDY OF MAMMALIAN PLACENTAS AND FETAL MEMBRANES	RO1HD 00277-11	REB	42,938
MOSSMAN, HARLAND W	MORPHOLOGY OF THE MAMMALIAN OVARY A MONOGRAPH	RO1LM 00348-02	REB	20,567
MUNKRES, KENNETH D	MOLECULAR GENETICS OF MALATE DEHYDROGENASE	RO1GM 15751-01	GEN	78,095
NEY, PETER E	BRANCHING PROCESSES AND POPULATION GROWTH	RO1GM 13567-03	SSS	21,770
NORRIS, DALE M	INTRA-RELATIONS IN SELECTED AMBROSIAL COMPLEXES	RO1AI 06195-05	TMP	21,082
O LEARY, MARRION H	ENZYMATIC TRANSFORMATIONS OF GLUTAMIC ACID	RO1NB 07657-01	BIO	24,898
ORSINI, MARGARET W	COMPARATIVE UTERINE VASCULATURE	RO1HD 00267-10	REB	36,573
PASSANO, LEONARD M	PACEMAKER SYSTEMS AND PHASIC BEHAVIOR	RO1NB 06009-03S1	PHY	703
PASSANO, LEONARD M	PACEMAKER SYSTEMS AND PHASIC BEHAVIOR	RO1NB 06009-04	PHY	16,693
PECKHAM, BEN M	CELL POPULATION KINETICS OF GENITAL TISSUES	RO1GM 07838-07S1	RAD	480
PERLMAN, DAVID	ENZYMATIC DEGRADATION OF CYCLIC ANTIBIOTIC PEPTIDES	RO1AI 08237-01	MCB	33,064
PLAUT, WALTER	CHROMOSOME REPLICATION AND FUNCTION	RO1GM 15611-11	GEN	55,655
PLAUT, WALTER S	CHROMOSOME REPLICATION AND FUNCTION	RO1CA 03276-10S1	GEN	10,359
PORTER, JOHN W	ENZYMATIC SYNTHESIS OF CAROTENES AND FATTY ACIDS	RO1CA 01383-12	PC	50,280
PRATT, DAVID	GENETICS OF 3 SMALL BACTERIOPHAGES	RO1AI 05627-05	GEN	29,552
PRICE, J M	ETIOLOGY OF BLADDER TUMORS IN TURKISH CATTLE	RO1CA 08254-03S1	PTHB	11,146
PRICE, J M	ETIOLOGY OF BLADDER TUMORS IN TURKISH CATTLE	RO1CA 08254-04	PTHB	31,982
PULETTI, FLAVIO	NEURON ACTIVITY IN CORTEX AND DORSAL ROOTS	RO1NB 05548-03S1	NEUB	19,195
RANKIN, JOHN	CARDIOPULMONARY ADAPTATION TO EXERCISE AND TRAINING	RO1HE 07474-05	AFY	49,663
RAPER, KENNETH B	GROWTH AND DEVELOPMENT OF CELLULAR SLIME MOLES	RO1AI 04915-14	MBY	34,311
REED, CHARLES E	SEROLOGIC REACTIONS OF ENDOTOXIN	RO1AI 07462-02	ALY	14,524
REED, CHARLES E	AUTONOMIC FUNCTION IN ASTHMA	RO1AI 08106-01	IMB	26,292
RIESELBACH, RICHARD E	FUNCTIONAL CAPACITY OF THE CHRONICALLY DIS KIDNEY	RO1AM 09943-03	GMA	55,008
RIS, HANS	SUBMICROSCOPIC ORGANIZATION OF CHROMOSOMES	RO1GM 04738-12	CB	38,676
ROWE, GEORGE G	A STUDY OF THE CORONARY CIRCULATION	RO1HE 07754-05	CVB	46,599
ROWND, ROBERT H	THE CONTROL OF THE REPLICATION OF BACTERIAL EPISOMES	RO1GM 14398-02	GEN	42,630
RUECKERT, ROLAND R	STRUCTURE AND PHYSIOLOGY OF PICORNAVIRUSES	RO1CA 08662-03	VR	52,794
RUSCH, HAROLD P	CANCER RESEARCH-MCARDLE LABORATORY	PO1CA 07175-05	SSS	1,077,575
SALLACH, HENRY J	SERINE AND HYDROXYASPARTIC ACID METABOLISM	RO1AM 00922-12S1	BIO	1,017
SALLACH, HENRY J	SERINE AND HYDROXYASPARTIC ACID METABOLISM	RO1AM 00922-13	BIO	31,332
SARTO, GLORIA E	SEX DETERMINATION AND SEX DIFFERENTIATION	RO1HD 03084-01A1	GEN	19,849
SCHILLING, ROBERT F		P02AM 05630-05S1	AMP	9,070
SCHILLING, ROBERT F	METABOLIC UNIT FOR THE DEPARTMENT OF MEDICINE	P02AM 05630-06	AMP	180,852
SCHILLING, ROBERT F	PHYSIOLOGY OF VITAMIN B12 AND INTRINSIC FACTOR	RO1AM 04249-08	HEM	23,229
SCHULTZ, LORIS H	KETOGENESIS IN THE RUMINANT	RO1AM 08546-04	MET	14,526
SHAHIDI, NASROLLAH T	ACETOPHENETIDIN BIOTRANSFORMATION AND ITS TOXICITY	RO1AM 11879-01	PHRB	23,501
SHRAGO, EARL	CONTROL MECHANISMS IN GLUCONEOGENESIS	RO1GM 14033-02	MET	22,965
SIH, CHARLES J	STEROID OXIDATION BY MICROORGANISMS	RO1AM 04874-08	MCHA	33,214
SIH, CHARLES J	ENZYMES IN STEROID METABOLISM	RO1AM 09688-04	MCHA	25,470
SLAUTTERBACK, DAVID B	CYTOMORPHOLOGY AND CELL DIFFERENTIATION IN HYDRA	RO1GM 06934-09	CB	28,010
SMITH, DONALD W	IMMUNITY IN EXPERIMENTAL AIRBORNE TUBERCULOSIS	RO1AI 00646-14	ALY	46,320
SMITH, DONALD W	IMMUNITY IN EXPERIMENTAL AIRBORNE TUBERCULOSIS	R22AI 07485-02	SSS	13,643
STAHMANN, MARK A	IMMUNOCHEMISTRY OF POLYPEPTIDES AND PROTEINS	RO1AI 00101-19	ALY	25,740
STIEHM, E RICHARD	BIOLOGIC AND METABOLIC HETEROGENEITY OF ANTIBODIES	RO1AI 07286-03	ALY	20,392
STONE, WILLIAM E	CHEMICAL PHYSIOLOGY OF THE BRAIN	RO1NB 00818-13S1	NEUB	4,580
STONE, WILLIAM H	BIOCHEMICAL-GENETIC STUDIES OF TYPE-SPECIFIC ANTIGENS	RO1AI 03204-08	GEN	25,659
STROMINGER, JACK L	BIOCHEMISTRY OF MECHANISMS OF ACTION OF ANTIBIOTICS	RO1AI 06247-05	BID	32,750
STROMINGER, JACK L	BIOSYNTHESIS OF COMPLEX POLYSACCHARIDES	RO1AM 08672-05	PC	43,140
STRONG, FRANK M	CHEMISTRY OF BIOLOGICALLY IMPORTANT NATURAL PRODUCTS	RO1AI 04419-07	MCHA	28,874
SUSMAN, MILLARD	GROWTH AND RECOMBINATION IN BACTERIOPHAGE	RO1AI 05855-05	VR	27,304
SUTTIE, JOHN W	REGULATION OF PROTHROMBIN SYNTHESIS BY VITAMIN K	RO1AM 09305-04	HEM	28,728
THEIOS, JOHN M	SEQUENTIAL PROPERTIES OF CONDITIONED RESPONSES	RO1HD 03540-01	EXP	38,431
TIPPER, DONALD J	STRUCTURE AND SYNTHESIS OF BACILLUS SPHAERICUS CELL WALL	RO1HD 02972-01	MCB	22,879
TROST, BARRY M	THE CHEMISTRY OF CARBANIONS	RO1GM 13598-03	MCHA	23,989
UPDIKE, STUART J	IMMOBILIZED ENZYMES TO ANALYZE AND ALTER METABOLISM	RO1GM 16133-01	MET	13,577
VALDIVIA, ENRIQUE	CIRCULATORY AND PULMONARY ALTERATIONS IN HYPOXIA	RO1HE 06523-07	CVA	31,733
VERMUND, HALVOR	RADIOTHERAPY RESEARCH	P02CA 06295-07	RAD	380,180
WAISMAN, HARRY A	BIOCHEMICAL AND ANIMAL STUDIES IN MENTAL RETARDATION	RO1HD 00341-08	MET	134,985
WAISMAN, HARRY A	NEURO-CHEMICAL CHANGES WITH EXCESS AMINO ACIDS	RO1HD 02301-03	MET	45,819
WALKER, DUARD L	PERSISTENT VIRAL INFECTIONS OF ANIMAL CELLS	RO1AI 06334-04	VR	27,708
WALKER, DUARD L	VIRUS EFFECTS ON CELLS CELL GROWTH VERSUS CELL DEATH	RO1CA 05682-07	VR	54,745

TABLE 2—RESEARCH GRANTS, BY AREA, INSTITUTION, AND PRINCIPAL INVESTIGATOR

INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRG	DOLLARS
WISCONSIN—(CON.)				
WEST, ROBERT	PERHALOGENATED CYCLIC COMPOUNDS	RO1GM 14288-02	MCHA	33,688
WHIFFEN, JAMES D	HEPARIN LOADED PLASTICS FOR CARDIOVASCULAR PROSTHESES	RO1HE 10072-02S1	SGYA	3,652
WHITLOCK, HOWARD W, JR	REACTIONS OF BIOCHEMICAL INTEREST	RO1AM 08064-05	MCHA	43,650
WILKEN, DAVID R	BIOLOGICAL CONTROL OF PANTHEINE DERIVATIVE LEVELS	RO1AM 11001-02	PC	13,811
WILLIAMS, JOHN W	ASSOCIATION-DISSOCIATION REACTIONS IN PROTEIN SYSTEMS	RO1GM 14963-01	BBCA	18,527
WILLIAMS, PAUL H	ALBUGO PHYSIOLOGY, PARASITISM, GENETICS	RO1AI 04149-07	MBC	17,345
WILSON, PERRY W	ENZYMES ASSOCIATED WITH BIOLOGICAL NITROGEN FIXATION	RO1AI 01417-13	PC	13,012
WOLBERG, WILLIAM H	STUDIES ON HUMAN TUMORS IN VITRO	RO1CA 05953-07	PHRB	22,190
WOOLSEY, CLINTON N	CENTER FOR RESEARCH IN CEREBRAL LOCALIZATION	PO1NB 06225-02S1	NBP	17,978
WOOLSEY, CLINTON N	CENTER FOR RESEARCH IN CEREBRAL LOCALIZATION	PO1NB 06225-03	NBPA	293,575
WOOLSEY, CLINTON N	COMPARATIVE STUDIES ON NERVOUS SYSTEM	RO1NB 03641-05	SRC	23,430
YALE, CHARLES E	INTESTINAL STRANGULATION IN GERMFREE ANIMALS	RO1AI 06956-03	BM	71,396
YATVIN, MILTON B	RADIATION EFFECT ON PROTEIN & NUCLEIC ACID METABOLISM	RO1CA 08318-04	RAD	31,712
YU, HYUK	PHASE TRANSITIONS AND FLOW PROPERTIES OF POLYPEPTIDES	RO1GM 15432-01	BBCA	24,411
ZIMMERMAN, HOWARD E	PHOTOCHEMISTRY OF CARBONYL GROUP CONTAINING MOLECULES	RO1GM 07487-08	MCHA	40,104
INSTITUTION TOTAL	197	12,967,634		
MARSHFIELD				
MARSHFIELD CLINIC FOUNDATION FOR MEDICAL RESEARCH AND EDUCATION				
EMANUEL, DEAN A	COOPERATIVE STUDY OF DRUGS AND CORONARY HEART DISEASE	RO1HE 10514-03	SRC	34,988
NIKOLAI, THOMAS F	FAMILIAL DECREASE IN THYROXINE BINDING GLOBULIN	RO1AM 11246-02	GEN	14,824
INSTITUTION TOTAL	2	49,812		
MILWAUKEE				
MARQUETTE SCHOOL OF MEDICINE				
ANKEL, HELMUT K	EPIMERIZATION AND DECARBOXYLATION OF UDP-SUGARS	RO1AM 11411-02	PC	25,677
BARBORIAK, JOSEPH J	INVESTIGATION OF A HYPERSENSITIVITY PNEUMONITIS	RO1AI 07159-02	IMB	19,518
BERNSTEIN, ALECK	GENETIC ANALYSIS OF VI-PHAGE II	RO1AI 06819-02	GEN	12,020
CALVERT, DEANE N	ADRENERGIC COMPONENTS OF LIPID METABOLISM	RO1AM 07681-04	PHRA	14,081
CALVERT, DEANE N	STUDIES ON EXPERIMENTAL SHOCK	RO1HE 07564-06S1	PHRA	3,846
CALVERT, DEANE N	EXPERIMENTAL SHOCK	RO1HE 07564-07	PHRA	21,635
CATLIN, B WESLEY	DEOXYRIBONUCLEIC ACIDS AND NUCLEASES OF BACTERIA	RO1AI 02353-10	MBC	16,357
CHERAYIL, GEORGE D	NEUROBIOCHEMISTRY OF PRESENILE/SENILE DEMENTIA	RO1NB 06660-02	NEUB	32,066
CURTIS, ROBIN L	TRANSFER OF NEUROMUSCULAR MUTANTS TO STANDARD STRAINS	RO1NB 07680-02	GEN	23,234
DARIN, JOSEPH C	HUMAN CADAVERIC EXTRACORPOREAL HEPATIC SUPPORT SYSTEM	RO1AM 10577-03	SGYA	30,749
ELLISON, EDWIN H	PEPTIC ULCERATION, NUTRITION, THROMBOSIS, ETC.	PO1AM 04150-09	AMP	130,987
ENGSTROM, WILLIAM W	GENERAL CLINICAL RESEARCH CENTER	MO1FR 00058-07	CLR	293,413
FREDRICKS, WALTER W	HYDROGENASE ACTIVITY AND REGULATION OF ELECTRON FLOW	RO1GM 13732-03	BIO	28,610
HARDMAN, HAROLD F	EFFECTS OF DRUGS UPON MYOCARDIAL HYPOXIA	RO1HE 08311-05	PHRA	23,672
KALKHOFF, RONALD K	METABOLIC EFFECTS OF INSULIN ANTAGONISM AND DEFICIENCY	RO1AM 10305-03	MET	15,425
KASSELL, BEATRICE	GASTRIC ZYMOGENS, PROTEASES AND INHIBITORS	RO1AM 09826-03	BIO	37,231
KAUFFMAN, HERBERT M, JR	KIDNEY TRANSPLANTS PROLONGED FUNCTION WITH NEW DRUGS	RO1AM 12265-01	SGYA	23,378
KEMP, ROBERT G	CHEMICAL MODIFICATION OF PHOSPHOFRUCTOKINASE	RO1AM 11410-02	PC	32,526
KERRIGAN, GERALD A	GENERAL RESEARCH SUPPORT GRANT	SO1FR 05434-07	NSS	220,933
KLITGAARD, HOWARD M	THYROXINE AND ITS DERIVATIVES AS METABOLIC REGULATORS	RO1AM 00957-12	END	13,380
LEMANN, JACOB, JR	CALCIUM BALANCE IN RENAL ACIDOSIS	RO1AM 08924-04	GMA	17,639
LUM, BERT K	DRUG POTENTIATION	RO1HE 07554-06	PHRA	16,567
MAHER, WILLIAM P	BLOOD AND LYMPH VESSELS IN THE HEAD AND NECK	RO1DE 01093-08	DEN	22,298
MATTINGLY, RICHARD F	URINARY TRACT CHANGES IN PROGESTATIONAL STATES	RO1HD 02242-03	BM	16,790
MEADE, ROBERT C	STUDY OF SERUM INSULIN AND INSULIN-LIKE ACTIVITY	RO1AM 08536-05	END	11,995
MEADE, ROBERT C	PANCREOZYMIN STIMULATION OF INSULIN SECRETION	RO1AM 11521-02	END	6,568
MEHLER, ALAN H	STRUCTURAL AND BIOLOGICAL PROPERTIES OF TRNA	RO1GM 13037-04	BIO	45,438
MUELLER, KARL H	THE ETIOLOGY OF CONGENITAL HIP DISLOCATION	RO1AM 09446-03	SGYB	22,103
PISCIOTTA, ANTHONY V	STUDIES ON AGRANULOCYTOSIS	RO1CA 05524-07	HEM	26,898
QUICK, ARMAND J	THE STUDY OF HEMOPHILIA A AND TWO RELATED DISEASES	RO1HE 01612-22	HEM	23,015
RIECK, ALVIN F	PHOTOBIOLOGICAL STUDIES ON EARLY DEVELOPMENT	RO1CA 10418-01	CBY	12,304
SIEGESMUND, KENNETH A	THE ULTRASTRUCTURE OF THE SYNAPSE	RO1NB 06870-02	NEUB	27,216
SMITH, JAMES J	RETICULOENDOTHELIAL SYSTEM AND CIRCULATORY FUNCTION	RO1HE 06588-07	CVA	37,220
SOERTEL, KONRAD H	FACTORS AFFECTING ABSORPTION FROM THE SMALL INTESTINE	RO1AM 09929-03	GMA	18,179
SPURR, GERALD B	HEPATIC FUNCTION IN HYPERTHERMIA	RO1AM 12790-01	GMA	7,101
WHITE, PHILIP T	A COLLABORATIVE STUDY OF EPILEPSY - PHASE I	RO1NB 06688-02S1	SSS	5,243
WHITE, PHILIP T	COOPERATIVE STUDY OF ACTH IN MULTIPLE SCLEROSIS	RO1NB 07196-02	SRC	26,563
WINSHIP, DANIEL H	MICROPUNCTURE STUDIES OF GASTRIC SECRETION	RO1AM 08687-04	PHY	17,515
WINSHIP, DANIEL H	BOLUS PROPULSION IN THE HUMAN ESOPHAGUS	RO1AM 11866-01	GMA	6,260
YARD, ALBERT C	VASCULAR EFFECTS OF STEROIDS IN ENDOTOXIN SHOCK	RO1HE 11361-02	END	14,921
INSTITUTION TOTAL	40	1,400,571		
MARQUETTE UNIVERSITY				
ALEXANDER, L C	GENERAL RESEARCH SUPPORT GRANT	SO1FR 05348-07	NSS	30,625
CARTZ, LOUIS	STRUCTURAL STUDIES OF DENTAL RESTORATIVE MATERIALS	RO1DE 02597-02	DEN	28,230
HOFFMAN, NORMAN E	GAS CHROMATOGRAPHY OF BIOLOGICALLY IMPORTANT ACIDS	RO1GM 12399-04	MCHB	30,201
HORGAN, JAMES D	COMPUTER SIMULATION OF THE RESPIRATORY SYSTEM	RO1HE 08456-05	COM	48,059
KNAP, FLORIAN J	STUDY OF MANDIBULAR MOTION IN SIX DEGREES OF FREEDOM	RO1DE 02167-03	DEN	13,370

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INVESTIGATOR	PROJECT TITLE	GRANT NO	IRG	DOLLARS
WISCONSIN—(CON.)				
MARZLUF, GEORGE A	THE BIOCHEMICAL GENETICS OF MORPHOLOGICAL MUTANTS	RO1GM 15055-02	GEN	22,612
MC DONOUGH, EUGENE S	STUDIES ON BLASTOMYCES DERMATITIDIS	RO1AI 02211-10	BM	23,557
O BRIEN, WILLIAM J	BASIC AND APPLIED STUDIES OF DENTAL MATERIALS	RO1DE 01057-09	DEN	84,845
RASCH, ELLEN M	REGULATION OF CHROMOSOMAL NUCLEOPROTEIN SYNTHESIS	RO1GM 14644-01	GEN	34,374
SANCES, ANTHONY, JR	EFFECTS OF ELECTROANESTHESIA ON THE NERVOUS SYSTEM	RO1NB 05977-03	NEUA	23,714
INSTITUTION TOTAL 10	339,587			
MILWAUKEE BLOOD CENTER				
MASOUREDIS, SERAFEIM P	COMPARISON OF ISOTOPIC AND HEMAGGLUTINATION METHODS	RO1HD 03445-01	HEM	23,413
MORELL, SAMUEL A	FUNCTIONS OF THIOL IN HUMAN ERYTHROCYTES	RO1HE 04965-09	HEM	24,104
VAN OSS, CAROL J	SEPARATION OF BLOOD PROTEINS BY ULTRAFILTRATION	RO1GM 14067-02	BBCB	18,437
INSTITUTION TOTAL 3	65,954			
MILWAUKEE HEALTH DEPARTMENT				
PIRANO, FRANK F	EPIDEMIOLOGY OF A PIGEON ORNITHOSIS VIRUS	RO1AI 07096-03	VR	15,667
INSTITUTION TOTAL 1	15,667			
WISCONSIN UNIVERSITY OF				
TAPPEN, NEIL C	STRUCTURE AND FUNCTION OF BONE IN GROWTH AND AGING	RO1HD 02033-03	PTHA	35,023
WARREN, RICHARD M	STUDIES IN LOUDNESS	RO1NB 05998-02	CMS	23,998
INSTITUTION TOTAL 2	59,021			
RIVER FALLS				
WISCONSIN STATE UNIVERSITY-RIVER FALLS				
CALENTINE, ROBERT L	BIOLOGY OF CARYOPHYLLAEID CESTODES	RO1AI 06605-04	TMP	4,113
INSTITUTION TOTAL 1	4,113			
STEVENS POINT				
WISCONSIN STATE UNIVERSITY-STEVENS POINT				
WEAVER, ROBERT H	BRAIN NUCLEOSIDE DIPHOSPHOKINASE	RO1NB 06573-01S1	NEUB	202
WEAVER, ROBERT H	BRAIN NUCLEOSIDE DIPHOSPHOKINASE	RO1NB 06573-02S1	NEUB	977
WEAVER, ROBERT H	BRAIN NUCLEOSIDE DIPHOSPHOKINASE	RO1NB 06573-03	NEUB	7,864
INSTITUTION TOTAL 3	9,043			
WEST DE PERE				
ST. NORBERT COLLEGE				
FLANIGAN, NORBERT J	COMPARATIVE NEUROANATOMY	RO1NB 05267-04	NEUA	15,948
INSTITUTION TOTAL 1	15,948			
STATE TOTAL 268	15,176,630			
WYOMING				
LARAMIE				
WYOMING UNIVERSITY OF				
BLATZ, PAUL E	INTERACTIONS AND PROPERTIES OF RETINAL-OPSN COMPLEX	RO1NB 06712-02	VIS	34,694
LAWSON, FRED A	ULTRASTRUCTURE OF BLATTID SALIVARY SYSTEM	RO1GM 14304-01S1	TMP	9,547
LAWSON, FRED A	ULTRASTRUCTURE OF BLATTID SALIVARY SYSTEM	RO1GM 14304-02	TMP	17,819
OWEN, WILLIAM B	CONTACT CHEMORECEPTION IN ADULT MOSQUITOES	RO1AI 00931-12	TMP	11,319
SMITH, GARY E	IN VIVO ENZYMIC CARBOHYDRATE METABOLISM IN SHEEP	RO1AM 11565-02	NTN	13,551
INSTITUTION TOTAL 5	86,930			
STATE TOTAL 5	86,930			
PUERTO RICO				
MAYAGUEZ				
PUERTO RICO UNIVERSITY OF				
WHEELER, OWEN H	RADIOLYTIC DECOMPOSITION OF PEPTIDES	RO1GM 14056-02	RAD	13,829
INSTITUTION TOTAL 1	13,829			
SAN JUAN				
PUERTO RICO DEPT OF HEALTH				
PEREZ SANTIAGO, ENRIQUE	VITAMIN B 12 METABOLISM IN TROPICAL SPRUE	RO1AM 02776-10	HEM	11,020
INSTITUTION TOTAL 1	11,020			
PUERTO RICO UNIVERSITY OF				
CINTRON-RIVERA, A A	HEREDITARY ASPECTS OF TROPICAL SPRUE	RO1AM 04903-07	NTN	43,676
CONDE DEL PINO, ENCARNITA	ENZYMATIC STUDIES IN SCHISTOSOMA MANSONI	R22AI 07557-02	SSS	15,766
DE MELLO, WALMOR C	EFFECTS OF HORMONES ON CARDIAC ELECTROGENESIS	RO1HE 10897-02S1	CVA	5,188
DE MELLO, WALMOR CARLOS	EFFECTS OF HORMONES ON CARDIAC ELECTROGENESIS	RO1HE 10897-03	CVA	15,376
DEL CASTILLO, JOSE	LABORATORY OF NEUROBIOLOGY	PO1NB 07464-01	NBPA	131,800
DEL CASTILLO, JOSE	COMPARATIVE NERVE-MUSCLE PHYSIOLOGY AND PHARMACOLOGY	RO1NB 05235-05	PHY	24,792
DIAZ-TORRES, PEDRO M	EFFECT OF ANESTHETICS ON BIOGENIC AMINE METABOLISM	RO1NB 07719-01	PHRA	39,412
FOX, IRVING	GENETICS OF DIELDRIN AND DDT RESISTANCE IN AEDES AEGYPTI	RO1GM 07152-05	TOX	9,600
GARCIA-PALMIERI, MARIO R	COOPERATIVE STUDY OF DRUGS AND CORONARY HEART DISEASE	RO1HE 11116-02	SRC	23,782
HADDOCK, LILLIAN	DIABETIC TREATMENT AND COMPLICATIONS	RO1AM 07601-05	SSS	46,768

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INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRG	DOLLARS
PUERTO RICO—(CON.)				
HARRIS, NORMAN O	PROGRAMMED LEARNING FOR DENTAL SCHOOL HISTOLOGY LABORAT	R01DH 00140-01	HSR	20,841
HARRIS, NORMAN O	GENERAL RESEARCH SUPPORT GRANT	S01FR 05340-07	NSS	32,012
MARTINEZ, ISIDRO	STUDY OF ESOPHAGEAL CARCINOMA IN PUERTO RICO	R01CA 08180-02S1	EDC	363
MENDEZ-CASHION, DOLORES I	OBSCURE ACUTE NEUROLOGICAL SYNDROMES IN CHILDREN	R01NB 02464-08S1	NEUA	18,111
NINE-CURT, JOSE	GENERAL RESEARCH SUPPORT GRANT	S01FR 05452-07	NSS	60,823
OLIVER-GONZALEZ, JOSE	BLOOD SUBSTANCES INGESTED BY ADULT SCHISTOSOMA MANSONI	R22AI 07469-02	SSS	23,792
ORTIZ, EVELINA	COMPARATIVE ENDOCRINOLOGY OF VERTEBRATES	R01AM 03628-08	END	14,731
SIFONTES, JOSE E	GENERAL CLINICAL RESEARCH CENTER	M01FR 00063-06	CLR	391,987
SIFONTES, JOSE E	GENERAL RESEARCH SUPPORT GRANT	S01FR 05419-07	NSS	166,996
TORO-GOYCO, EFRAIN	AMINO ACID COMPOSITION AND SEQUENCE OF PINGUINAIN	R01AM 08346-05	PC	11,947
TORO-GOYCO, EFRAIN	ANTIGENIC SUBSTANCES IN OVA OF S MANSONI	R22AI 07769-02	SSS	15,328
TORRES-BLASINI, GLADYS	SOIL AS NATURAL RESERVOIR FOR HUMAN PATHOGENIC FUNGI	R01AI 05201-06	BM	11,072
TORRES-PINEDO, RAMON	DIARRHEAL DEHYDRATION IN MALNUTRITION	R01AM 07595-05	GMA	26,084
INSTITUTION TOTAL	23	1,150,247		
SAN JUAN CITY HOSPITAL				
COLON-RIVERA, EGIDIO S	HORMONAL STUDIES IN HYPERBILIRUBINEMIA	R01HD 01867-01S1	HED	6,860
COLON-RIVERA, EGIDIO S	HORMONAL STUDIES IN HYPERBILIRUBINEMIA	R01HD 01867-02	HED	30,954
INSTITUTION TOTAL	2	37,814		
STATE TOTAL	27	1,212,910		
VIRGIN ISLANDS				
CHARLOTTE AMALIE				
COMMUNICATION RESEARCH INSTITUTE				
LILLY, JOHN C	NEUROPHYSIOLOGICAL RESEARCH ON LARGE BRAINS	R01NB 03097-07	NEUB	313,890
INSTITUTION TOTAL	1	313,890		
STATE TOTAL	1	313,890		
ARGENTINA				
BUENOS AIRES				
BUENOS AIRES UNIVERSITY OF				
TAQUINI, ALBERTO C	THE ANGIOTENSIN-RENIN SYSTEM IN HYPERTENSION	R01HE 06034-06	CVB	8,100
INSTITUTION TOTAL	1	8,100		
CONSEJO NACIONAL DE INVESTIGACIONES CIENTIFICAS Y TECNICAS				
DE ROBERTIS, EDUARDO D P	ULTRASTRUCTURE AND FUNCTION IN THE NERVOUS TISSUE	R01NB 06953-03	NEUA	32,000
SOLARI, ALBERTO JUAN	STRUCT AND COMPOS OF CHROMATIN FROM GAMETES AND SOMAT CE	R05TW 00317-02	IFRC	2,500
INSTITUTION TOTAL	2	34,500		
INSTITUTO DE BIOLOGIA Y MEDICINA EXPERIMENTAL				
DALMASSO, AGUSTIN P	EFFECT OF ANTIBODY AND COMPLEMENT ON TRYPANOSOMES	R01AI 07470-02	TMP	7,500
INSTITUTION TOTAL	1	7,500		
INSTITUTO DE INVESTIGACIONES BIOQUIMICAS FUNDACION CAMPOMAR				
ALGRANATI, ISRAEL D	REGULATION IN THERMOPHILIC BACTERIA	R05TW 00285-02	IFRC	2,500
LELOIR, LUIS FEDERICO	ENZYMES AND COENZYMES ACTING ON HEXOSE PHOSPHATES	R01GM 03442-17	PC	20,000
INSTITUTION TOTAL	2	22,500		
INSTITUTO TORCUATO DI TELLA -CENT DE INVESTIGAC NEUROLOGICAS				
BRUETMAN, MARTIN E	NATURAL HISTORY OF OCCLUSIVE CEREBROVASCULAR DISEASE	R01HE 09008-04	SRC	13,492
CARRERA, RAUL	AUTOMATIC DIGITAL ANALYSIS OF NEUROPHYSIOLOGICAL DATA	R01NB 06791-02	COM	11,720
INSTITUTION TOTAL	2	25,212		
CORDOBA				
INSTITUTO DE INVESTIGACIONES MEDICA'MERCEDES Y MARTIN FERREYRA'				
TALEISNIK, SAMUEL	NEURAL CONTROL OF GONADAL FUNCTION	R01NB 04732-05	NEUA	10,000
INSTITUTION TOTAL	1	10,000		
UNIVERSIDAD NACIONAL DE CORDOBA				
CAPUTTO, RANWEL	NEURAMIN-LACTOSE AND GANGLIOSIDES BIOSYNTHESIS	R01NB 04781-05	PC	16,400
INSTITUTION TOTAL	1	16,400		
CORRIENTES				
UNIVERSIDAD NACIONAL DEL NORDESTE				
GUTNISKY, ABRAHAM	HUMAN URINARY ERYTHROPOIETIN COLLECTION	R01HE 10870-02	HEM	27,253
INSTITUTION TOTAL	1	27,253		
LA PLATA				
UNIVERSIDAD NACIONAL DE LA PLATA				
BRENNER, RODOLFO R	ROLE OF ARACHIDONIC ACID IN FATTY ACID SYNTHESIS	R01HE 08267-04S1	MET	2,600
BRENNER, RODOLFO R	ROLE OF ARACHIDONIC ACID IN FATTY ACID SYNTHESIS	R01HE 08267-05	MET	8,950
CINGOLANI, HORACIO E	HEART EXTENSIBILITY AND ACID-BASE CHANGES	R05TW 00244-03	IFRC	1,000
INSTITUTION TOTAL	3	12,550		

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INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRG	DOLLARS
ARGENTINA—(CON.)				
MENDOSA				
UNIVERSIDAD NACIONAL DE CUYO				
BURGOS, MARIO H	STUDIES ON THE ULTRASTRUCTURE OF ACTIVE TRANSPORT	R01GM 08496-07	CBY	8,000
INSTITUTION TOTAL	1 8,000			
STATE TOTAL	15 172,015			
AUSTRALIA				
ADELAIDE				
ADELAIDE UNIVERSITY OF				
BARRETT, MURRAY J	GROWTH STUDY OF AUSTRALIAN ABORIGINES	R01DE 02034-04S1	DEN	19,252
BARRETT, MURRAY J	GROWTH STUDY OF AUSTRALIAN ABORIGINES	R01DE 02034-05	OEN	6,530
ROGERS, WILLIAM P	PHYSIOLOGICAL ADAPTATIONS TO PARASITISM	R01AI 04093-06	TMP	14,183
ROWLEY, DERRICK	OPSONINS IN NATIVE SUSCEPTIBILITY TO INFECTION	R01AI 03226-08S1	ALY	2,547
INSTITUTION TOTAL	4 42,512			
BRISBANE				
QUEENSLAND UNIVERSITY OF				
SPRENT, JOHN F	STRUCTURE AND MIGRATORY BEHAVIOUR OF NEMATODE LARVAE	R01AI 07023-02	TMP	6,913
ZERNER, BURT	THE MECHANISM OF ACTION OF HYDROLYTIC ENZYMES	R01GM 13759-03	BIO	13,200
INSTITUTION TOTAL	2 20,113			
CANBERRA				
AUSTRALIAN NATIONAL UNIVERSITY				
JOHNSTON, GRAHAM A	NEUROCHEMISTRY OF CENTRAL SYNAPTIC TRANSMISSION	R05TW 00294-02	IFRC	2,500
SMYTH, JAMES D	IN VITRO CULTIVATION OF ECHINOCOCCUS GRANULOSUS	R01AI 07452-02	TMP	5,850
INSTITUTION TOTAL	2 8,350			
CLAYTON				
MONASH UNIVERSITY				
LINNANE, ANTHONY W	MITOCHONDRIAL STRUCTURE AND ELECTRON TRANSPORT IN YEAST	R01GM 10496-06	BIO	14,200
INSTITUTION TOTAL	1 14,200			
HOBART				
TASMANIA UNIVERSITY OF				
MEGRIAN, DAVID	THE VESTIBULAR CONTROL SYSTEM	R01NB 07195-02	PHY	1,050
INSTITUTION TOTAL	1 1,050			
MELBOURNE				
MELBOURNE UNIVERSITY OF				
BURNET, F MACFARLANE	SELECTED ASPECTS OF CELLULAR IMMUNOLOGY	R01AI 05767-04	IMB	15,000
DAY, ALLAN J	METABOLISM OF ISOLATED FOAM CELLS	R05TW 00318-02	IFRC	2,500
DENTON, DEREK A	SALT REGULATION AND CIRCULATORY DISEASE	R01HE 11580-01	GMB	30,500
NOSSAL, GUSTAV J	GENETIC STUDIES ON IMMUNOLOGICALLY COMPETENT CELLS	R01AI 03958-08	ALY	43,900
WARNER, NOEL L	GENETICS OF PLASMA CELL TUMORS AND MYELOMA PROTEINS	R01AM 11234-02	ALY	15,000
INSTITUTION TOTAL	5 106,900			
PRINCE HENRY'S HOSPITAL				
BURGER, HENRY GEORGE	THE PROPERTIES OF BOVINE GROWTH HORMONE	R05TW 00273-03	IFRC	2,500
INSTITUTION TOTAL	1 2,500			
PERTH				
WESTERN AUSTRALIA UNIVERSITY OF				
JEFFERIES, PHILLIP R	CHEMICAL STUDIES ON THE FLORA OF WESTERN AUSTRALIA	R01CA 07810-03S1	MCHB	1,200
MORGAN, EVAN H	PHYSIOLOGY OF TRANSFERRIN	R05TW 00212-03	IFRC	2,500
OLIVER, IVAN T	BIOCHEMICAL DEVELOPMENT OF NEO-NATAL MAMMALIAN LIVER	R05TW 00206-03	IFRC	2,500
INSTITUTION TOTAL	3 6,200			
SYDNEY				
CHILDREN'S MEDICAL RESEARCH FOUNDATION				
BURNARD, ERIC D	NEWBORN CIRCULATION AND RESPIRATION IN DISEASE	R01HD 01937-03	HED	3,646
INSTITUTION TOTAL	1 3,646			
NEW SOUTH WALES UNIVERSITY OF				
CAVILL, GEORGE W K	INSECT VENOMS, ATTRACTANTS AND REPELLENTS	R01GM 13550-06	TOX	19,986
HEATH, TREVOR J	PATHWAYS OF FAT TRANSPORT FROM THE INTESTINE	R05TW 00351-01	IFRC	1,150
HEATH, TREVOR J	PATHWAYS OF FAT TRANSPORT FROM THE INTESTINE	R05TW 00351-02	IFRC	1,438
INSTITUTION TOTAL	3 22,574			
ROYAL NORTH SHORE HOSPITAL				
LEMBERG, MAX R	HAEMOPROTEINS AND TETRAPYRROLE CHEMISTRY	R01HE 07827-05	BIO	14,710
INSTITUTION TOTAL	1 14,710			
SYDNEY UNIVERSITY OF				
BLACKBURN, CHARLES R	CHRONIC LUNG DISEASE IN NEW GUINEA POPULATIONS	R01HE 12149-01	EDC	35,320

TABLE 2—RESEARCH GRANTS, BY AREA, INSTITUTION, AND PRINCIPAL INVESTIGATOR

INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRG	DOLLARS
AUSTRALIA—(CON.)				
INSTITUTION TOTAL	1	35,320		
STATE TOTAL	25	278,075		
AUSTRIA				
VIENNA				
VIENNA UNIVERSITY OF				
AUERSWALD, WILHELM	HUMAN BLOOD SERUM PLASMINOGEN ACTIVATOR	R01HE 07085-06	HEM	8,992
HERTTING, GEORG	THE ROLE OF CATECHOLAMINES IN AUTONOMIC FUNCTIONS	R01HE 07025-07	PHRA	4,900
TUPPY, HANS	FORMATION AND ENZYME OUTFIT OF MUTANT MITOCHONDRIA	R01GM 11225-05	GEN	8,100
INSTITUTION TOTAL	3	21,992		
STATE TOTAL	3	21,992		
BELGIUM				
ANTWERP				
PRINCE LEOPOLD INSTITUTE OF TROPICAL MEDICINE				
FAIN, A M	ENDOPARASITISM BY MITES IN MAN AND IN ANIMALS	R01AI 04870-06	TMP	4,500
INSTITUTION TOTAL	1	4,500		
WORLD FEDERATION OF NEUROLOGY				
DIAMOND, SIDNEY P	2ND SYMPOSIUM OF THE WFN RESEARCH GROUP ON APHASIOLOGY	R13NB 08206-01	NSS	6,619
INSTITUTION TOTAL	1	6,619		
BRUSSELS				
BRUSSELS UNIVERSITY OF				
ABRAMOW, MAURICE M	STUDIES ON SINGLE RENAL TUBULES IN VITRO	R05TW 00311-02	IFRC	1,652
DESMEDT, JOHN E	NEURAL MECHANISMS IN ACOUSTIC PERCEPTION	R01NB 02482-08	CMS	20,000
ERRERA, MAURICE LEO	METABOLISM OF RIBONUCLEIC ACIDS AND CELL FUNCTION	R01GM 06214-09	CB	18,500
POURTOIS, MICHEL R	EXPERIMENTAL STUDY ON PALATAL CLOSURE IN VITRO	R0IDE 02630-01	CBY	19,500
RASIO, EUGENIO A	DIFFUSION OF PROTEIN HORMONES ACROSS VASCULAR MEMBRANES	R05TW 00289-02	IFRC	2,500
WILKIN, PAUL GEORGES	MORPHOLOGICAL STUDY OF PLACENTA IN FETAL DYSMATURITY	R01HD 02365-02	HED	1,752
INSTITUTION TOTAL	6	63,904		
FONDATION MEDICALE REINE ELISABETH				
TOUSSAINT, DANIEL	HUMAN & EXPERIMENTAL DIABETIC RETINOPATHY	R01AM 06490-05	PTHA	5,500
INSTITUTION TOTAL	1	5,500		
GHENT				
GHENT STATE UNIVERSITY OF				
FIERS, WALTER C	CHEMICAL STUDY OF INFECTIOUS PHAGE-RNA	R01GM 11304-05	BIO	6,600
INSTITUTION TOTAL	1	6,600		
LIEGE				
LIEGE UNIVERSITY OF				
DALLEMAGNE, MARCEL J	THE MOLECULAR STRUCTURE OF CALCIFIED TISSUES	R01DE 01931-05	DEN	17,761
INSTITUTION TOTAL	1	17,761		
LOUVAIN				
CATHOLIC UNIVERSITY OF LOUVAIN				
BECKERS, CHRISTIAN H	LYSOSOMES AND THYROID ACTIVITY	R01AM 09773-03	END	8,000
HERS, HENRI-GERY	INBORN ERRORS OF CARBOHYDRATE METABOLISM	R01AM 09235-04	MET	20,000
LAUWERYS, JOZEF-MARIE	THE VASCULATURE OF THE NORMAL AND PATHOLOGICAL LUNG	R01HE 08998-04	RAD	8,919
INSTITUTION TOTAL	3	36,919		
STATE TOTAL	14	141,803		
BRAZIL				
BELO HORIZONTE				
MINAS GERAIS UNIVERSIDADE DE				
PELLEGRINO, JOSE	EXPERIMENTAL CHEMOTHERAPY OF SCHISTOSOMIASIS	R22AI 05917-05	SSS	8,500
VIEIRA, ENIO CARDILLO	AXENIC BIOMPHALARIA GLABRATA NUTRITION AND DIGESTION	R01AI 08245-01	TMP	9,715
INSTITUTION TOTAL	2	18,215		
CURITIBA				
PARANA UNIVERSIDADE DO				
CAMPELLO, ANNIBAL P	SPERMIDINE OXIDASE IN BACTERIA AND ANIMAL TISSUES	R05TW 00223-02	IFRC	2,500
INSTITUTION TOTAL	1	2,500		
RIBEIRAO PRETO				
SAO PAULO UNIVERSITY OF				
AMORIM, DALMO DE SOUZA	CARDIAC OUTPUT CONTROL IN CHAGAS HEART DISEASE	R01HE 08188-05	CVB	4,400
INSTITUTION TOTAL	1	4,400		

TABLE 2—RESEARCH GRANTS, BY AREA, INSTITUTION, AND PRINCIPAL INVESTIGATOR

INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRG	DOLLARS
BRAZIL—(CON.)				
RECIFE				
RECIFE UNIVERSITY OF				
BARBOSA, FREDERICO S	ANIMALS AS RESERVOIR HOSTS OF S MANSONI	R01AI 04607-07	TMP	12,960
INSTITUTION TOTAL	1 12,960			
RIO DE JANEIRO				
BRAZIL UNIVERSITY OF-INSTITUTO DE BIOFISICA				
DE MEIS, LEOPOLDO	EFFECT OF POLYAMINES IN MUSCLE CONTRACTION	R05TW 00181-03	IFRC	2,500
OSWALDO-CRUZ, EDUARDO	A COMPARATIVE ANALYSIS OF STRIATAL FUNCTION	R01NB 04651-05	NEUA	8,263
INSTITUTION TOTAL	2 10,763			
BRAZILIAN INSTITUTE OF TROPICAL MEDICINE				
DE PAOLA, DOMINGOS	PATHOLOGY OF ARBOVIRUSES IN BRASIL	R01AI 07745-02	PTHA	31,400
RODRIGUES DA SILVA, JOSE	LIVER AND INTESTINAL PARASITIC DISEASES	R22AI 07831-02	SSS	21,460
INSTITUTION TOTAL	2 52,860			
INSTITUTO OSWALDO CRUZ				
RIBEIRO, LUIZ P	STUDIES ON LIPOPROTEIN LIPASE OF ADIPOSE TISSUE	R05TW 00197-03	IFRC	2,500
INSTITUTION TOTAL	1 2,500			
SAO SALVADOR				
BAHIA UNIVERSITY OF				
ROCHA, HEONIR	HOST FACTORS IN SCHISTOSOMA INFECTIONS	R01AI 07022-03	TMP	4,904
INSTITUTION TOTAL	1 4,904			
SAO PAULO				
INSTITUTO BUTANTAN				
BECAK, WILLY	CYTOGENETIC ASPECTS OF EVOLUTION IN LOWER VERTEBRATES	R01GM 14577-02	CBY	7,410
INSTITUTION TOTAL	1 7,410			
SAO PAULO UNIVERSITY OF				
FERNANDES, JOSE FERREIRA	CHAGAS DISEASE, CHEMOTHERAPY, IMMUNOLOGY, BIOCHEMISTRY	R01AI 05008-05	TMP	5,200
JUNQUEIRA, LUIZ CARLOS U	COMPARATIVE STUDIES ON SALIVARY GLANDS	R01DE 01881-05	DEN	7,920
ROCHA E SILVA, MAURICIO	CARDIOVASCULAR EFFECTS OF BRADYKININ	R01HE 10074-03	PHRA	12,550
SESSO, A	CYTOCHEMICAL STUDIES ON THE CYTODIFFERENTIATION OF DIGE	R05TW 00250-02	IFRC	2,500
INSTITUTION TOTAL	4 28,170			
STATE TOTAL	16 144,682			
CANADA				
CALGARY				
ALBERTA UNIVERSITY OF				
ARMSTRONG, DAVID A	THE RADIOLYSIS OF CYSTEINE AND OTHER THIOLS	R01GM 14020-03	MCHB	8,000
INSTITUTION TOTAL	1 8,000			
EDMONTON				
ALBERTA UNIVERSITY OF				
KAY, CYRIL M	STUDIES ON THE STRUCTURE OF MUSCLE PROTEINS & ENZYMES	R01AM 06287-06	BIO	23,967
INSTITUTION TOTAL	1 23,967			
FORT GARRY				
MANITOBA UNIVERSITY OF				
CHOWN, BRUCE	PREVENTION OF PRIMARY RH IMMUNIZATION	R01HD 02634-02	HEM	27,797
LA BELLA, FRANK S	LOCALIZATION SECRETION AND ACTIONS OF PITUITARY HORMONES	R01AM 05896-06	END	16,571
INSTITUTION TOTAL	2 44,368			
FREDERICTON				
NEW BRUNSWICK UNIVERSITY OF				
WIESNER, KAREL	SYNTHESIS OF RYANODINE	R01AM 10819-02	MCHA	12,710
INSTITUTION TOTAL	1 12,710			
HAMILTON				
MC MASTER UNIVERSITY				
NEWBIGGER, PERCY L	TRANSFER AND RETENTION IN PERCEPTUAL LEARNING	R01HD 00952-05	EPR	14,492
INSTITUTION TOTAL	1 14,492			
KINGSTON				
QUEENS UNIVERSITY				
WEST, ALLEN S	REACTIONS TO INSECT BITES - CAUSES AND EFFECTS	R01ES 00188-11	TMP	23,518
INSTITUTION TOTAL	1 23,518			
LONDON				
WESTERN ONTARIO UNIVERSITY OF				
DE MAYO, PAUL	THE CONSTITUTION OF PRIMYCIN	R01AI 06649-03	MCHB	14,513

TABLE 2—RESEARCH GRANTS, BY AREA, INSTITUTION, AND PRINCIPAL INVESTIGATOR

INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRG	DOLLARS
CANADA—(CON.)				
INSTITUTION TOTAL	1	14,513		
MONTREAL				
MC GILL UNIVERSITY				
COMMON, ROBERT H	ESTROGEN EXCRETION AND METABOLISM IN THE FOWL	R01AM 06130-06	END	11,300
DIRKS, JOHN H	MICROPUNCTURE STUDIES ON THE DOG PROXIMAL TUBULE	R01AM 10394-03	PHY	13,484
FRASER, F CLARKE	CAUSES OF CONGENITAL MALFORMATIONS	R01HO 02187-02	GEN	17,261
FRIESEN, HENRY G	STUDIES OF PLACENTAL AND PITUITARY POLYPEPTIDES	R01HO 01727-03	END	15,100
KESSLER, JACQUES I	PROTEIN SYNTHESIS INHIBITION AND GUT TRANSPORT OF FAT	R01AM 11643-02	MET	14,431
LEVINE, MARTIN D	AUTOMATED MEASUREMENT OF INTERNAL SURFACE AREA OF LUNG	R01HE 12183-01	COM	17,276
MACLEAN, LLOYD D	INVESTIGATION ON PATHOGENESIS OF SHOCK	R01GM 10438-06	SGYB	35,250
MASON, S G	THE RHEOLOGY OF BLOOD	R01HE 05911-08	CVB	17,000
MC KENZIE, JOHN M	INVESTIGATION OF THE PATHOGENESIS OF HYPERTHYROIDISM	R01AM 04121-09	END	25,403
METRAKOS, JULIUS D	GENETICS OF CONVULSIVE DISORDERS	R01NB 00706-14	GEN	11,782
SEHON, ALEC	PHYSICO-CHEMICAL STUDIES OF ANTIBODY-ANTIGEN SYSTEMS	R01AI 02085-10	ALY	33,073
SOLOMON, SAMUEL	THE FORMATION AND METABOLISM OF STEROIDS IN PREGNANCY	R01AM 04329-08	END	39,367
INSTITUTION TOTAL	12	250,727		
MONTREAL UNIVERSITY OF				
FOURON, JEAN-CLAUDE	VOLEMIA AND HEMATOCRIT CHANGES IN NEWBORNS	R01HO 03018-01	HED	19,050
SELYE, HANS	STUDIES ON TISSUE DEVELOPMENT AND AGING	R01HO 02612-02	PTHB	47,450
SELYE, HANS	COMPILATION OF ANALYTICO-SYNTHETIC MONOGRAPHS	R01LM 00522-01	BCM	25,496
INSTITUTION TOTAL	3	91,996		
SASKATOON				
SASKATCHEWAN UNIVERSITY OF				
REMPEL, JACOB G	ECOLOGY AND EPIDEMIOLOGY OF WESTERN ENCEPHALITIS	R01AI 07314-03	TMP	29,293
INSTITUTION TOTAL	1	29,293		
TORONTO				
ONTARIO CANCER INSTITUTE				
AXELRAD, ARTHUR A	RELATION OF VIRUS TO VARIOUS TUMORS	R01CA 04964-08	VR	43,900
WHITMORE, GORDON F	RADIOBIOLOGICAL STUDIES ON MAMMALIAN CELLS	R01CA 06229-06S1	RAD	6,664
INSTITUTION TOTAL	2	50,564		
TORONTO UNIVERSITY OF				
BAER, ERICH	PHOSPHATIDE ANALOGS AND ABNORMAL BLOOD CLOTTING	R01HE 08780-04	MCHA	16,168
MOOKERJEA, SAIENDU S	BIOSYNTHESIS AND TRANSPORT OF LIPOPROTEINS	R01AM 11298-02	NTN	20,845
YIP, CECIL C	THE BIOSYNTHESIS OF THE THYROID HORMONE, THYROXINE	R01AM 09487-03	END	12,100
INSTITUTION TOTAL	3	49,113		
VANCOUVER				
BRITISH COLUMBIA UNIVERSITY OF				
MC GEER, PATRICK L	ANALYSIS OF AROMATIC URINARY COMPOUNDS	R01HE 05664-08	PHRA	8,600
ROSENTHAL, ALEX	SYNTHESIS OF POTENTIAL ANTICANCER AGENTS	R01CA 08382-03	MCHA	11,500
TENER, GORDON M	THE ISOLATION AND IDENTIFICATION OF POLYNUCLEOTIDES	R01GM 14007-08	BIO	32,100
WADA, JUHN A	CHRONIC FOCAL EPILEPTOGENIC LESIONS AND DEEP STRUCTURES	R01NB 02812-08	NEUA	8,500
INSTITUTION TOTAL	4	60,700		
WATERLOO				
WATERLOO UNIVERSITY OF				
PALENIK, GUS J	CRYSTAL STRUCTURE STUDIES OF BIOLOGICAL INTEREST	R01AI 08201-01	BBCA	31,820
INSTITUTION TOTAL	1	31,820		
WINNIPEG				
CHILDREN'S HOSPITAL OF WINNIPEG				
UCHIDA, IRENE A	FUNDAMENTAL AND CLINICAL STUDIES IN HUMAN GENETICS	R01HO 00527-07	GEN	65,213
INSTITUTION TOTAL	1	65,213		
STATE TOTAL	35	770,994		
CHILE				
SANTIAGO				
CHILE UNIVERSITY OF				
AGOSIN, MOISES	METABOLISM OF GRANULOSUS	R01AI 01867-11	TMP	3,640
INSTITUTION TOTAL	1	3,640		
CHILE UNIVERSITY OF				
AGOSIN, MOISES	INSECTICIDE RESISTANCE IN TRIATOMA INFESTANS	R01AI 02300-10	TMP	38,750
INSTITUTION TOTAL	1	38,750		
CHILE UNIVERSITY OF				
OINAMARCA, MARIA L	STRUCTURAL STUDIES ON INSECTICIDE METABOLIZING ENZYMES	R05TW 00239-03	IFRC	1,500
ISRAEL, YEDY	ACUTE AND CHRONIC ALCOHOL EFFECTS ON NERVOUS SYSTEM	R01NB 06872-02	NEUB	3,400
ISRAEL, YEDY	MECHANISMS OF ALCOHOL INTOXICATION AND ADDICTION	R05TW 00259-02	IFRC	2,500

TABLE 2—RESEARCH GRANTS, BY AREA, INSTITUTION, AND PRINCIPAL INVESTIGATOR

INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRG	DOLLARS
CHILE—(CON.)				
MATURANA, HUMBERTO R	FINE ANATOMY OF THE NERVOUS SYSTEM	R01NB 05057-03	NEUB	3,000
MIDDLETON, SAMUEL	COMPARATIVE STUDIES ON THE NERVOUS SYSTEM	R01NB 03640-05	SRC	16,725
NIEMEYER, HERMANN	INDUCTION OF RAT LIVER GLUCOKINASE BY GLUCOSE	R01AM 07363-05	MET	12,600
ORREGO, FERNANDO J	SYNTHESIS OF BRAIN MACROMOLECULES ITS RELATION TO BRAI	R05TW 00255-02	IFRC	1,254
ROJAS, EDUARDO E	ION TRANSPORT MECHANISM IN GIANT AXON	R01NB 06503-03	NEUB	7,403
YUDILEVICH, DAVID L	TRANSCAPILLARY MOVEMENT BY MULTIPLE TRACER METHODS	R01HE 05929-08	PHY	6,400
INSTITUTION TOTAL	9 54,782			
UNIVERSIDAD CATOLICA DE CHILE				
VALDIVIESO, VICENTE D	COLONIC ABSORPTION OF TRIGLYCERIDES AND FATTY ACIDS	R05TW 00270-02	IFRC	2,068
VARGAS, LUIS	CHILD MALNUTRITION, HYPOGLYCEMIA & INSULIN ANTAGONIST	R01AM 09148-03	MET	7,092
INSTITUTION TOTAL	2 9,160			
STATE TOTAL	13 106,332			
CHINA - TAIWAN				
TAIPEI				
NATIONAL DEFENSE MEDICAL CENTER				
CHAI, CHOK-YUNG	PHARMACOLOGY AND PHYSIOLOGY OF THE NERVOUS SYSTEMS	R05TW 00287-02	IFRC	790
INSTITUTION TOTAL	1 790			
NATIONAL TAIWAN UNIVERSITY				
HUANG, PO-CHAO	CHINESE PROTEIN AND AMINO ACID REQUIREMENTS	R22AM 12095-01	SSS	15,295
LEE, CHUN-JEAN	HYPOXEMIA AFTER MAJOR OPEN HEART SURGERY	R05TW 00232-03	IFRC	2,500
INSTITUTION TOTAL	2 17,795			
TAIPEI MEDICAL COLLEGE				
CHANG, CHEN C	HEMODYNAMIC STUDIES BEFORE AND AFTER OPEN HEART OPERATI	R05TW 00352-01	IFRC	1,200
CHANG, CHEN C	HEMODYNAMIC STUDIES BEFORE AND AFTER OPEN HEART OPERATI	R05TW 00352-02	IFRC	1,757
INSTITUTION TOTAL	2 2,957			
STATE TOTAL	5 21,542			
COLOMBIA				
CALI				
UNIVERSIDAD DEL VALLE				
CORREA, PELAYO	ULTRASTRUCTURAL STUDIES OF GEOGRAPHIC PATHOLOGY	R01HD 02386-02	PTHA	7,228
GAITAN, EDUARDO	PHYSIOPATHOLOGY OF ENDEMIC GOITER	R01AM 05763-06	END	15,566
GARCIA, CARLOS A	EXPERIMENTAL NEUROPATHOLOGY OF TETANUS	R01NB 07054-01	PTHA	10,189
INSTITUTION TOTAL	3 32,983			
MEDELLIN				
ANTIOQUIA UNIVERSITY OF				
ARIAS-AGUIRRE, FERNANDO	STUDIES ON THE ANGIOTENSIN II FORMING SYSTEM	R05TW 00167-02	IFRC	2,500
BORRERO, JAIME	COAGULATION ALTERATIONS IN RENAL DISEASES	R05TW 00307-02	IFRC	2,443
RESTREPO-MORENO, ANGELA	STUDIES ON SOUTH AMERICAN BLASTOMYCOSIS	R01AI 06637-03	BM	9,157
INSTITUTION TOTAL	3 14,100			
STATE TOTAL	6 47,083			
DENMARK				
AARHUS				
AARHUS UNIVERSITY OF				
LARSEN, JORGEN F	ULTRASTRUCTURE OF GONAOS, TROPHOBLAST, FETAL MEMBRANES	R01HD 02493-02	REB	14,986
INSTITUTION TOTAL	1 14,986			
COPENHAGEN				
BISPEBJERG HOSPITAL				
SKINHOJ, ERIK	BLOOD FLOW AND RESISTANCE IN ARTERIOSCLEROTIC BRAIN	R01NB 06973-02	NEUA	7,146
INSTITUTION TOTAL	1 7,146			
CARLSBERG LABORATORY				
HOLTER, HEINZ	STUDY OF UPTAKE OF HIGH MOLECULAR SUBSTANCES IN CELLS	R01GM 12180-04	MBY	30,463
INSTITUTION TOTAL	1 30,463			
COPENHAGEN UNIVERSITY OF				
MAALOE, OLE U	INTEGRATION OF BACTERIAL PROTEIN, RNA AND DNA SYNTHESIS	R01AI 04914-05	BIO	28,485
VON WETTSTEIN, DITER H	GENETIC CONTROL OF MACROMOLECULAR CELL STRUCTURES	R01GM 10819-06	GEN	17,900
INSTITUTION TOTAL	2 46,385			
DANISH CANCER REGISTRY				
CLEMMESSEN, JOHANNES	DANISH AND INTERNATIONAL CANCER REVIEW	R01CA 03087-11	EOC	12,800
INSTITUTION TOTAL	1 12,800			
DANISH NATIONAL HEALTH SERVICE				
MANDAHL-BARTH, GEORG	BIOLOGY OF SNAIL-BORNE DISEASES IN AFRICA & MIDDLE EAST	R01AI 04752-05	TMP	14,978

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INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRG	DOLLARS
DENMARK—(CON.)				
INSTITUTION TOTAL	1	14,978		
ROYAL DENTAL COLLEGE				
BJORK, ARNE	FACIAL GROWTH STUDIES WITH METALLIC IMPLANTS	R01HD 00154-10	DEN	10,000
PINDBORG, JENS J	STUDIES IN ORAL LEUKOPLAKIS	R01DE 01358-07S1	DEN	1,645
PINDBORG, JENS J	STUDIES IN ORAL LEUKOPLAKIS	R01DE 01358-08	DEN	11,504
INSTITUTION TOTAL	3	23,149		
STATE TOTAL	10	149,907		
EL SALVADOR				
SAN SALVADOR				
EL SALVADOR UNIVERSITY OF				
MARTINEZ, J RICARDO	MICROPUNCTURE STUDY OF SALIVARY GLAND FUNCTION	R01DE 02730-01	DEN	16,500
INSTITUTION TOTAL	1	16,500		
STATE TOTAL	1	16,500		
ETHIOPIA				
ADDIS ABABA				
HAILE SELASSIE I UNIVERSITY				
LEMMA, AKILILU	AN EPIDEMIOLOGICAL STUDY OF LEISHMANIASIS IN ETHIOPIA	R01AI 07231-02	TMP	14,820
INSTITUTION TOTAL	1	14,820		
STATE TOTAL	1	14,820		
FINLAND				
HELSINKI				
COLLEGE OF VETERINARY MEDICINE				
TURPEINEN, OSMO	DIETARY PREVENTION OF CORONARY ARTERY DISEASE	R01HE 08176-05	NTN	24,000
INSTITUTION TOTAL	1	24,000		
HELSINKI UNIVERSITY OF				
MIETTINEN, TATU	CATABOLISM OF CHOLEST IN EXPERIMENT ANIMALS AND HUMANS	R05TW 00218-03	IFRC	2,500
RUNEBERG, LARS J	ANAEROBIC ENERGY METABOLISM OF THE KIDNEY	R05TW 00265-02	IFRC	2,500
SUNDELL, BORJE W	STUDY VENOUS OUTFLOW TISSUE FLUID CIRCUL PEDICLE SKIN	R05TW 00185-03	IFRC	2,500
INSTITUTION TOTAL	3	7,500		
INSTITUTE OF OCCUPATIONAL HEALTH				
KARVONEN, MARTTI J	EPIDEMIOLOGY OF HEART DISEASE IN FINLAND	R01HE 04754-09	SRC	15,000
INSTITUTION TOTAL	1	15,000		
STATE SERUM INSTITUTE				
AHO, KIMMO V	SENSITIZATION OF RED CELLS BY ANTIBODIES	R05TW 00264-02	IFRC	2,500
INSTITUTION TOTAL	1	2,500		
TURKU				
TURKU UNIVERSITY OF				
HANNAH-ALAVA, ALOHA	CONIAL STEM-CELL SENSITIVITY	R01GM 15009-01	GEN	6,500
HARTIALA, KAARLO	GASTROINTESTINAL METABOLIC FUNCTIONS	R01AM 06018-07	GMA	18,700
KOSKI, P KALEVI	GROWTH OF BONES IN NON-FUNCTIONAL SITES	R01HD 00177-06	DEN	12,375
INSTITUTION TOTAL	3	37,575		
STATE TOTAL	9	86,575		
FRANCE				
MARSEILLES				
CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE				
ARVANITAKI-CHALAZONITIS, A	PHOTOACTIVATION OF EXCITABLE SYSTEMS	R01NB 03337-07	PHY	7,000
INSTITUTION TOTAL	1	7,000		
MONTPELLIER				
MONTPELLIER UNIVERSITY OF				
MICHEL, HENRI	THE SCLEROSING HYALIN NECROSIS OF LIVER	R05TW 00229-02	IFRC	2,200
INSTITUTION TOTAL	1	2,200		
PARIS				
ASSOCIATION DE PREVENTION ET D'ETUDES DES MALADIES MOLECULAIRES				
SCHAPIRA, FANNY	FETAL-LIKE PATTERNS OF ENZYMES IN CANCER	R01CA 08900-02	PTHB	9,500
INSTITUTION TOTAL	1	9,500		
CENTRE DE RECHERCHE DU PATHOLOGIE CELLULAIRE				
PONDER, ERIC H	RED CELLS GHOSTS AND MYELIN FORMS	R01HE 07401-06	HEM	16,000
INSTITUTION TOTAL	1	16,000		

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INVESTIGATOR	PROJECT TITLE	GRANT NO	IRG	DOLLARS
FRANCE—(CON.)				
CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE				
ROBERT, LESLIE	BIOSYNTHESIS OF GLYCOPROTEINS OF CORNEAL STROMA	R01NB 07929-01	VIS	11,800
INSTITUTION TOTAL	1 11,800			
COLLEGE DE FRANCE				
HAGUENAU, FRANCOISE	THE ROLE OF VIRUSES IN THE ETIOLOGY OF CANCER	R01CA 06202-06	VR	16,819
INSTITUTION TOTAL	1 16,819			
INSTITUT DE BIOLOGIE PHYSICO-CHIMIQUE				
GRUNBERG-MANAGO, MARIANNE	SYNTHESIS AND FUNCTION OF POLYRIBONUCLEOTIDES	R01CA 04580-08	PC	20,200
PULLMAN, BERNARD	ELECTRONIC ASPECTS OF FUNDAMENTAL BIOLOGY	R01GM 12289-03	BBC	5,000
INSTITUTION TOTAL	2 25,200			
INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE				
HATZFELD, CLAIRE	PHYSIOCLINICAL STUDY OF THE INHOMOGENEOUS LUNG	R05TW 00298-02	IFRC	1,459
INSTITUTION TOTAL	1 1,459			
NATURALIA ET BIOLOGIA SOCIETY				
TAUC, LADISLAV	PLASTIC CHANGES IN GANGLION CELLS	R01NB 06975-02	PHY	22,793
INSTITUTION TOTAL	1 22,793			
PARIS UNIVERSITY OF				
DAUSSET, JEAN	SURFACE LEUKOCYTE ANTIGENS AND SKINGRAFTS	R01CA 05573-08	IMB	27,550
INSTITUTION TOTAL	1 27,550			
PARIS UNIVERSITY OF-CLINIQUE DE GENETIQUE MEDICALE				
FREZAL, JEAN	ETIOLOGIC STUDIES ON MENTAL DEFICIENCIES	R01HD 00320-08	GEN	11,318
INSTITUTION TOTAL	1 11,318			
PASTEUR INSTITUTE				
JACOB, FRANCOIS	FUNCTIONAL GENETIC STUDIES OF THE BACTERIAL CELLS	R01AI 07885-01	GEN	24,200
MONOD, JACQUES L	BIOCHEMISTRY OF GENE CONTROL OF PROTEIN SYNTHESIS	R01AI 03998-07	BIO	25,000
INSTITUTION TOTAL	2 49,200			
SALPETRIERE HOSPITAL				
REMOND, ANTOINE G	SPATIO-TEMPORAL ELECTROENCEPHALOGRAPHY	R01NB 04009-06	NEUB	39,309
INSTITUTION TOTAL	1 39,309			
STATE TOTAL	15 240,148			
GREECE				
ATHENS				
ALEXANDRA HOSPITAL				
MALAMOS, BASIL	STUDIES OF ENDEMIC GOITER IN GREECE	R01AM 07464-05	END	41,500
INSTITUTION TOTAL	1 41,500			
ATHENS UNIVERSITY OF				
CONSTANTAS, NICOLAS S	TYROSINE TRANSAMINASE CLINICAL CHEMISTRY, ACTIVATION	R05TW 00277-02	IFRC	2,500
FESSAS, PHAEDON	PROBLEM OF HEMOGLOBIN H AND THALASSEMIA	R01HE 04541-09	HEM	8,030
MIRAS, CONSTANDINOS J	LIPID METABOLISM UNDER DIFFERENT DIETARY CONDITIONS	R01HE 10421-03	MET	19,530
INSTITUTION TOTAL	3 30,060			
CHILDREN'S HOSPITAL AGHIA SOPHIA				
DOXIADIS, SPYROS A	CHROMOSOMAL ABNORMALITIES AND LOCALIZATION OF GENES	R01NB 06390-03	GEN	17,850
INSTITUTION TOTAL	1 17,850			
GREEK SOCIETY FOR THE STUDY OF ATHEROSCLEROSIS				
ARAVANIS, CHRIST J	CARDIOVASCULAR FOLLOW-UP IN GREECE	R01HE 06090-07	SRC	4,650
INSTITUTION TOTAL	1 4,650			
STATE TOTAL	6 94,060			
GUATEMALA				
GUATEMALA				
PAN AMERICAN HEALTH ORGANIZATION--INSTITUTE OF NUTRITION OF CENTRAL AMERICA AND PANAMA				
VITERI, FERNANDO E	GASTRO INTESTINAL FUNCTIONS OF PCM CHILDREN	R22AM 12105-01	SSS	61,785
INSTITUTION TOTAL	1 61,785			
STATE TOTAL	1 61,785			
INDIA				
ANNAMALAINAGAR				
ANNAMALAI UNIVERSITY				
MUTHUKARUPPAN, VEERAPPAN	THE DEVELOPMENT OF IMMUNITY IN REPTILES	R01HD 02065-03	IMB	7,361
INSTITUTION TOTAL	1 7,361			

TABLE 2—RESEARCH GRANTS, BY AREA, INSTITUTION, AND PRINCIPAL INVESTIGATOR

INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRG	DOLLARS
INDIA—(CON.)				
BOMBAY				
INDIAN CANCER RESEARCH CENTER				
GANGAL, SUDHA G	ANTIGENIC STUDIES OF NORMAL AND MALIGNANT CELLS	R05TW 00299-02	IFRC	2,500
INSTITUTION TOTAL	1 2,500			
L. T. M. G. HOSPITAL AND MUNICIPAL MEDICAL COLLEGE				
GANDHI, MANSUKH J	CLINICAL EVALUATION OF VECTORCARDIOGRAPHY	R05TW 00243-02	IFRC	2,500
INSTITUTION TOTAL	1 2,500			
MADRAS				
MADRAS UNIVERSITY OF				
RAMACHANDRAN, GOPALASAMUDRAM N.	STUDIES ON PROTEIN AND POLYPEPTIDE CHAIN CONFORMATIONS	R01AM 10905-02	BBCB	16,209
INSTITUTION TOTAL	1 16,209			
NEW DELHI				
DELHI UNIVERSITY OF - LADY HARDINGE MEDICAL COLLEGE				
PADMAVATI, S	THE ETIOLOGY OF COR PULMONALE IN INDIA	R01HE 06232-04S1	CVA	23
PADMAVATI, S	THE ETIOLOGY OF COR PULMONALE IN INDIA	R01HE 06232-05	CVA	9,696
INSTITUTION TOTAL	2 9,719			
VELLORE				
CHRISTIAN MEDICAL COLLEGE				
KAPUR, YASH PAL	EFFECT ON HEARING OF TROPICAL AND NUTRITIONAL DISEASE	R01NB 03648-07	CMS	18,844
INSTITUTION TOTAL	1 18,844			
STATE TOTAL	7 57,133			
IRAN				
TEHRAN				
RAZI STATE INSTITUTE				
BAHARSEFAT, MANOUTCHEHR	CONTROL OF MYCOPLASMA IN SHEEP AND GOATS	R05TW 00238-03	IFRC	1,000
INSTITUTION TOTAL	1 1,000			
TEHERAN UNIVERSITY OF				
ASGARI, MANOOCHEHR	IMMUNOLOG CORRELATION BETWEEN H CAPSULATUM AND CH	R05TW 00170-03	IFRC	2,400
INSTITUTION TOTAL	1 2,400			
STATE TOTAL	2 3,400			
IRELAND				
DUBLIN				
DUBLIN UNIVERSITY OF				
CARROLL, MICHAEL J	COENZYME ROLE OF VITAMIN A IN SULPHURYLATION REACTIONS	R05TW 00314-02	IFRC	2,500
WINDER, FRANK G	MECHANISM OF ACTION OF ANTI-TUBERCULOSIS COMPOUNDS	R01AI 07254-02	MBC	7,500
INSTITUTION TOTAL	2 10,000			
NATIONAL UNIVERSITY OF IRELAND				
CLARKE, NOEL P	COAGULATIVE AND FIBRINOLYTIC PROPERTIES OF HUMAN CELLS	R05TW 00196-03	IFRC	2,492
INSTITUTION TOTAL	1 2,492			
STATE TOTAL	3 12,492			
ISRAEL				
HAIFA				
ISRAEL INSTITUTE OF TECHNOLOGY -TECH RES & DEV FDN LTD				
SHALITIN, CHANNA	STUDIES ON THE REGULATION OF PHAGE T4 DEVELOPMENT	R05TW 00257-02	IFRC	2,500
INSTITUTION TOTAL	1 2,500			
JERUSALEM				
HEBREW UNIVERSITY				
BEN-HUR, NAHUM	EFFECTS OF MALIGNANT TUMORS UPON IMMUNOGENICITY OF NORMAL HOST	R05TW 00286-02	IFRC	2,250
BEN-ISHAY, DRORI	PREHYPERTENSIVE STAGE IN RATS PRONE TO HYPERTENSION	R05TW 00288-02	IFRC	4,100
CHOWERS, ISRAEL	THE EFFECT OF CORTISOL ON TEMPERATURE REGULATION	R05TW 00194-02	IFRC	2,175
DAVIDSON, JOSEPH T	EFFECT OF PULMONARY MICRO-EMBOLI ON LUNG FUNCTION	R05TW 00301-02	IFRC	2,500
DAVIES, A MICHAEL	IMMUNOLOGICAL ASPECTS OF HEART DISEASE	R01HE 05739-08	IMB	25,631
DOLJANSKI, FANNY	SURFACE PROPERTIES OF NORMAL AND MALIGNANT CELLS	R01CA 06582-06	CBY	8,350
FELDMAN-MUHSAM, B	SYSTEMATIC AND REPRODUCTION OF ACARI	R01AI 07711-02	TMP	16,650
GATT, SHIMON	METABOLISM OF THE SPHINGOLIPIDS AND C24 FATTY ACIDS	R01NB 02967-08	MET	30,350
KULKA, RICHARD G	BIOCHEMICAL DIFFERENTIATION OF THE EXOCRINE PANCREAS	R01AM 09573-02S1	MBY	676
KULKA, RICHARD G	BIOCHEMICAL DIFFERENTIATION OF THE EXOCRINE PANCREAS	R01AM 09573-03	MBY	15,030
LOW, WILLIAM	ELECTRON SPIN RESONANCE ON HAEMOGLOBIN	R01HE 10610-02	BBCA	15,500
SCHRAMM, MICHAEL	ENZYME SECRETION AND ITS METABOLIC CONTROL	R01AM 10451-03	BIO	18,260
SEIJFFERS, MAX J	THE SIGNIFICANCE OF MULTIPLICITY OF HUMAN PEPSINOGENS	R01AM 10753-02	GMA	22,325
STEIN, YECHESKIEL	PHOSPHOLIPID METABOLISM IN THE AORTA	R01HE 05705-08	MET	15,437

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INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRG	DOLLARS
ISRAEL—(CON.)				
ZUCKERMAN, AVIVAH	ANTIGENIC ANALYSIS OF PLASMODIA	R01AI 08100-01	TMP	27,830
INSTITUTION TOTAL 15	207,064			
NES ZIONA				
ISRAEL INSTITUTE FOR BIOLOGICAL RESEARCH				
COHEN, SASSON	PROTEIN-BONDING PURINES AND PYRIMIDINES	R01CA 06996-05S1	ALY	1,513
TIETZ-DEVIR, ALISA	STUDIES OF FAT TRANSPORT	R01GM 13462-03	TMP	15,350
INSTITUTION TOTAL 2	16,863			
REHOVOTH				
WEIZMANN INSTITUTE OF SCIENCE				
BERENBLUM, ISAAC	A POSSIBLE TWO-STAGE MECHANISM IN LEUKEMOGENESIS	R01CA 05455-08	PTHB	20,026
BOHAK, ZVI	THE CHEMICAL MODIFICATION OF PROTEINS	R01GM 12971-03	BIO	8,650
DANIEL, VIOLET	ISOLATION OF DNA SEQUENCES COMPLEMENTARY TO T-RNA	R05TW 00260-02	IFRC	2,500
ELAD, DOV	PHOTOALKYLATION OF AMINO ACIDS AND PEPTIDES	R01AM 10740-02	MCHB	24,400
KATCHALSKI, EPHRAIM	SIDE-CHAIN INTERACTIONS IN SYNTHETIC POLYAMINO ACIDS	R01AM 08464-04	BBC	21,000
PATCHORNIK, ABRAHAM	NON-ENZYMATIC MODIFICATIONS AND CLEAVAGES OF PROTEINS	R01AM 05098-07	MCHB	43,300
PEKERIS, CHAIM L	PROTEIN CRYSTAL STRUCTURE DETERMINATION BY X-RAYS	R01GM 09243-03S1	SSS	132,000
PEKERIS, CHAIM L	PROTEIN CRYSTAL STRUCTURE DETERMINATION BY X-RAYS	R01GM 09243-04	SSS	91,495
SHARON, NATHAN	THE 6-DEOXYHEXOSAMINES OF BACILLUS LICHENIFORMIS	R01AI 03528-07	MBC	27,500
SIMON, ERNST	INSULIN BLOCKADE AS A TOOL IN ENDOCRINE PHYSIOLOGY	R01AM 05701-05	MET	17,830
STEINBERG, IZCHAK Z	ROLE OF DISULFIDE BRIDGES IN PROTEIN CONFORMATIONS	R01GM 13637-03	BBC	11,850
TRAUB, WOLFFIE	X-RAY STUDIES OF POLYPEPTIDES AND NUCLEIC ACIDS	R01GM 08608-07	BBCB	33,590
INSTITUTION TOTAL 12	434,141			
TEL AVIV				
TEL AVIV-JAFFA HOSPITAL (GOVT HOSPITAL)				
BRUNNER, DANIEL	DIET, WORK AND ETHNIC FACTORS IN VASCULAR DISEASE	R01HE 04520-08S1	NTN	19,500
INSTITUTION TOTAL 1	19,500			
TEL HASHOMER HOSPITAL (GOVT HOSPITAL)				
SOHAR, EZRA	THE NATURE OF AMYLOIDOSIS IN PAPUA	R01AM 09272-03S1	PTHA	4,911
SOHAR, EZRA	METABOLIC BASIS OF GENETIC AND OTHER AMYLOIDOSES	R01AM 09272-04	PTHA	48,700
INSTITUTION TOTAL 2	53,611			
STATE TOTAL 33	733,679			
ITALY				
BOLOGNA				
BOLOGNA UNIVERSITY OF				
PARMEGGIANI, PIER L	PROJECTIONS AND FEED-BACK LOOPS OF THE HIPPOCAMPUS	R05TW 00251-02	IFRC	2,500
INSTITUTION TOTAL 1	2,500			
CAGLIARI				
CAGLIARI UNIVERSITY OF				
FRIZZI, GUIDO	POPULATION GENETICS AND RADIOGENETICS IN MOSQUITOES	R01AI 03795-07	TMP	3,370
INSTITUTION TOTAL 1	3,370			
FERRARA				
FERRARA UNIVERSITY OF				
PONTREMOLI, SANDRO	BIOCHEMICAL AND GENETIC STUDIES OF THALASSEMIA	R01HD 02834-01	HEM	8,580
RIPPA, MARIO	CHEMICAL STUDIES ON 6-PHOSPHOGLUCONATE DEHYDROGENASE	R05TW 00227-03	IFRC	2,500
INSTITUTION TOTAL 2	11,080			
GENOA				
GENOA UNIVERSITY OF				
FIESCHI, CESARE	REGIONAL CEREBRAL BLOOD FLOW WITH HYDROGEN GAS AND PT E	R01NB 05017-04	NEUA	9,400
INSTITUTION TOTAL 1	9,400			
MILAN				
ISTITUTO DI RICERCHE FARMACOLOGICHE MARIO NEGRI				
GARATTINI, SILVIO	DRUGS AFFECTING LIPID TRANSPORT AND ATHEROSCLEROSIS	R01HE 09971-03	SRC	16,800
INSTITUTION TOTAL 1	16,800			
MILAN UNIVERSITY OF				
BAROLDI, GIORGIO	EARLY INTIMAL THICKENING OF CORONARY ARTERIES	R05TW 00233-03	IFRC	2,500
CORNEO, GIANMARCO	PROPERTIES OF NORMAL AND LEUKEMIC NUCLEIC ACIDS	R05TW 00247-02	IFRC	2,500
GUIDOTTI, GUIDO G	METABOLISM OF CHICK EMBRYO HEART	R01AM 05290-07	MET	4,500
MARTINI, LUCIANO	SHORT OR DIRECT ENDOCRINE FEEDBACK MECHANISMS	R01AM 10119-03	END	15,450
MARTINI, LUCIANO	TOPOGRAPHY OF HYPOTHALAMIC RELEASING FACTORS	R01AM 11783-01	END	14,100
PAOLETTI, RODOLFO	DRUGS AFFECTING LIPID TRANSPORT AND ATHEROSCLEROSIS	R01HE 09970-03	SRC	20,000
PAOLETTI, RODOLFO	DRUGS IN NORMAL AND TUMORAL BRAIN LIPID METABOLISM	R01NB 04202-06	MET	15,100
PECILE, ANTONIO	NERVOUS REGULATION OF GROWTH HORMONE SECRETION	R01HD 01109-04	END	10,600
PERNIS, BENVENUTO	CELLULAR BASIS OF THE HETEROGENEITY OF IMMUNOGLOBULINS	R01AI 07395-03	ALY	14,600

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INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRG	DOLLARS
ITALY—(CON.)				
SERENI, FABIO	RIBONUCLEIC ACID SYNTHESIS IN EARLY PERIODS OF LIFE	R01HD 01895-03	HED	8,800
INSTITUTION TOTAL 10	108,150			
MODENA				
MODENA UNIVERSITY OF				
CARAFOLI, ERNESTO	ION TRANSPORT IN MITOCHONDRIA	R05TW 00216-03	IFRC	350
INSTITUTION TOTAL 1	350			
NAPLES				
NAPLES UNIVERSITY OF				
DE LORENZO, FRANCESCO	COMP BIOCHEM & KINETICS STUDIES DISULFIDE INTCHG ENZYME	R05TW 00258-02	IFRC	3,750
GIORDANO, CARMELO	USE OF UREA FOR TREATMENT OF CHRONIC UREMIA	R01AM 11375-08	GMA	12,000
INSTITUTION TOTAL 2	15,750			
PARMA				
PARMA UNIVERSITY OF				
LUCARELLI, GUIDO	REGULATION OF FETAL AND ADULT ERYTHROPOIESIS (OIR)	R05TW 00180-03	IFRP	2,000
INSTITUTION TOTAL 1	2,000			
ROME				
CENTER AGAINST CARDIOVASCULAR DISEASE AND RHEUMATIC FEVER OF ROME				
FIDANZA, FLAMINIO	INTERNATIONAL RESEARCH-EPIDEMIOLOGY OF HEART DISEASE	R01HE 04672-09	SRC	6,000
INSTITUTION TOTAL 1	6,000			
ROME UNIVERSITY OF				
ANDRES, GIUSEPPE A	IMMUNOFERRITIN STUDIES OF NEPHRITIS	R01AI 04527-05	PTHA	7,000
PINCHERA, ALDO	STUDIES ON THE MECHANISM OF PRODUCTION OF LATS	R01AM 11030-02	END	10,500
PINCHERA, ALDO	STUDIES ON THE LONG-ACTING THYROID STIMULATOR	R05TW 00184-03	IFRC	2,500
INSTITUTION TOTAL 3	20,000			
SIENA				
SIENA UNIVERSITY OF				
LENZI, FRANCO	ROLE OF HYPOTHALAMUS IN PULMONARY CIRCULATION CONTROL	R01HE 06393-07A1	CVB	4,000
INSTITUTION TOTAL 1	4,000			
TURIN				
TURIN UNIVERSITY OF				
CEPELLINI, RUGGERO	GENETIC CONTROL OVER ANTIBODY STRUCTURE	R01AI 06988-03	ALY	27,500
INSTITUTION TOTAL 1	27,500			
STATE TOTAL 26	226,900			
JAMAICA				
MONA				
WEST INDIES UNIVERSITY OF THE				
STUART, KENNETH L	BACTERIURIA IN PREGNANCY IN JAMAICA	R01HD 02139-05	BM	8,787
INSTITUTION TOTAL 1	8,787			
STATE TOTAL 1	8,787			
JAPAN				
CHIBA				
NATIONAL INSTITUTE OF RADIOLOGICAL SCIENCES				
TAMAOKI, BUN-ICHI	IN VITRO BIOSYNTHESIS OF PITUITARY HORMONES	R01AM 07715-04	END	9,650
INSTITUTION TOTAL 1	9,650			
FUKUOKA				
FUKUOKA UNIVERSITY				
TOKI, SATOSHI	FUNCTION OF 3-HYDROXYHEXOBARBITAL DEHYDROGENASE	R05TW 00297-02	IFRC	1,020
INSTITUTION TOTAL 1	1,020			
KYUSHU UNIVERSITY				
KATSUKI, SHIBANOSUKE	STUDY ON CEREBROVASCULAR DISORDERS IN JAPAN	R01NB 03642-06	SSS	32,330
NAKAMURA, MOTOOMI	METABOLISM OF CORONARY AND CEREBRAL ARTERIES	R01HE 09589-03	MET	7,200
NAKAYAMA, FUMIO	METABOLIC DISORDERS IN GALLSTONE DISEASE	R01AM 07049-05	GMA	6,900
TAKAGI, YASUYUKI	SYNTHESIS OF DEOXYRIBONUCLEIC ACID IN BACTERIA	R01GM 12052-04	BIO	5,500
YAMADA, EICHI	MORPHOGENESIS OF PHOTORECEPTIVE ELEMENTS IN THE EYE	R01NB 03614-07	CBY	8,550
INSTITUTION TOTAL 5	60,480			
KANAZAWA				
KANAZAWA UNIVERSITY				
KAMEYAMA, TADANORI	ENZYME BIOSYNTHESIS AND MECHANISM OF GENE ACTION	R01GM 10635-06	PC	10,445
OOMURA, YUTAKA	IONIC MECHANISM IN SYNAPTIC TRANSMISSION	R01NB 07201-02	PHY	11,034
INSTITUTION TOTAL 2	21,479			

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INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRG	DOLLARS
JAPAN—(CON.)				
KAKAMIHARA				
GIFU UNIVERSITY				
HIRONO, IWAO	STUDIES IN CARCINOGENICITY OF CYCASIN	R01CA 10322-02	PTHB	5,078
INSTITUTION TOTAL 1	5,078			
KYOTO				
KYOTO PREFECTURAL UNIVERSITY OF MEDICINE				
KOMAI, TAKU	GENETIC STUDIES ON HEMOGLOBIN AND BLOOD TYPES	R01GM 09469-06	GEN	13,460
YONEZAWA, TAKESHI	MYELINATING PROCESS IN NERVE TISSUE CULTURE	R01NB 03173-08	PTHA	14,000
INSTITUTION TOTAL 2	27,460			
KYOTO UNIVERSITY				
DEURA, SHIGEYUKI S	STUDIES ON COMMISSURAL SYSTEMS IN THE CEREBELLUM	R05TW 00226-03	IFRC	350
HAYAISHI, OSAMU	METABOLIC CONTROL OF ENZYME ACTIVITY	R01AM 10333-03	PC	12,000
HAYAISHI, OSAMU	THE MECHANISM AND FUNCTION OF OXYGENASES	R01CA 04222-11	PC	12,000
ISHIZAKI, HIRONORI	BRAIN HORMONE PURIFICATION	R01GM 14152-02	TMP	4,833
MATSUURA, TERUO	MODEL REACTIONS FOR THE METABOLISM OF THYROXINE	R01AM 07955-05	END	35,300
MORI, KAZUO	UNITARY ANALYSIS OF EPILEPTIC FOCUS MIRROR FOCUS	R01NB 06553-02	NEUA	8,035
NISHIMURA, HIDEO	ANOMALIES IN EARLY HUMAN EMBRYOS AND MATERNAL FACTORS	R01HD 01401-04	HED	34,130
NISHIZUKA, YASUTOMI	METABOLISM OF AMINO ACIDS AND PROTEINS IN MAMMALS	R05TW 00280-02	IFRC	2,500
OKAMOTO, KOZO	SPONTANEOUS HYPERTENSION	R01HE 10762-02	CVB	34,957
INSTITUTION TOTAL 9	144,105			
MAEBASHI				
GUNMA UNIVERSITY				
HARADA, KENJI	MICROBIAL DRUG RESISTANCE-GENETICS, EPIDEMIOLOGY	R01AI 06299-04	BM	5,850
UI, NOBUO	STUDIES ON THE TSH EFFECT USING A CELL-FREE SYSTEM	R01AM 10031-03	END	4,080
INSTITUTION TOTAL 2	9,930			
MISIMA				
NATIONAL INSTITUTE OF GENETICS				
YOSIDA, TOSHIHIDE H	CHROMOSOME ALTERATION AND TUMOR DEVELOPMENT	R01CA 07798-05	GEN	5,115
INSTITUTION TOTAL 1	5,115			
NAGASAKI				
NAGASAKI UNIVERSITY				
KOIKE, MASAHIKO	STUDIES ON MAMMALIAN -KETO ACID DEHYDROGENASE COMPLEXES	R01AM 10765-02	BIO	9,400
INSTITUTION TOTAL 1	9,400			
NAGOYA				
NAGOYA CITY UNIVERSITY				
AOKI, KYUZO	SPONTANEOUS HYPERTENSION	R01HE 11878-01	PTHA	11,820
INSTITUTION TOTAL 1	11,820			
NAGOYA UNIVERSITY				
AKAZAWA, TAKASHI	BIOCHEMISTRY OF MULTI-ENZYME SYSTEM IN PLANT CELLS	R01AM 10792-02	BIO	12,680
HIRATA, YOSHIMASA	ORGANIC CHEMICAL STUDIES ON ANIMAL AND PLANT TOXINS	R01GM 07969-07	MCHB	9,800
INSTITUTION TOTAL 2	22,480			
OSAKA				
OSAKA CITY UNIVERSITY				
TAKAI, TOSHIO	ENZYMATIC DEVELOPMENT OF THE HUMAN FETUS	R01HD 00649-04	HED	9,700
INSTITUTION TOTAL 1	9,700			
OSAKA UNIVERSITY				
ASANO, AKIRA	STUDIES ON OXIDATIVE PHOSPHORYLATION IN MICROBIAL SYSTEM.....	R05TW 00254-02	IFRC	2,500
FUKASAWA, TOSHIO	HOST-INDUCED MODIFICATION OF T-EVEN BACTERIOPHAGES	R01GM 14353-02	MBC	5,150
HAMA, KIYOSHI K H	ANALYTICAL STUDIES ON SYNAPTIC FINE STRUCTURES	R01NB 06052-04	CBY	7,617
INOUE, KOZO	STUDIES ON THE THIRD COMPONENT OF COMPLEMENT	R01AI 07063-03	ALY	5,900
KAKIMOTO, YASUO	STUDIES ON B-AMINOISOBUTYRIC ACIDURIA	R01AM 11042-02	MET	3,000
KAWAMURA, YOJIRO Y	FUNCTIONAL ORGANIZATION OF STOMATOGNATHIC STRUCTURES	R01DE 02622-02	NEUB	5,600
KIKAWA, HIDEO	BIOCHEMICAL GENETICS OF RESISTANCE TO INSECTICIDES	R01GM 10154-06	TOX	6,000
KURAHASHI, KIYOSHI	BIOCHEMICAL STUDIES ON ENZYMES OF GALACTOSE METABOLISM	R01AM 04600-08	BIO	12,172
MATSUSHIMA, YOSHIO	STUDIES OF LYSOZYME ACTION ON VARIOUS SUBSTRATES	R01AI 04586-06	PC	2,500
OKUNUKI, KAZUO	STUDIES ON CYTOCHROME OXIDASE	R01GM 05871-10	BBCA	28,900
TONOMURA, YUJI	MOLECULAR MECHANISM OF MUSCLE CONTRACTION	R01AM 08303-04	BBCB	12,280
TSUGITA, AKIRA	ENZYMES OF BACILLUS SUBTILIS	R01GM 10982-05	PC	10,900
YOSHIZAWA, TORU	PHOTOCHEMICAL STUDY OF VISUAL PIGMENT	R01NB 06204-03	VIS	2,000
INSTITUTION TOTAL 13	104,519			
SENDAI				
TOHOKU UNIVERSITY				
ARAKAWA, TSUNEO	FORMIMINOTRANSFERASE DEFICIENCY SYNDROME	R01HD 01505-04	HED	4,800
KIKUCHI, GORO	CONTROL OF PORPHYRIN BIOSYNTHESIS	R01AM 08016-05	MBC	10,000

TABLE 2—RESEARCH GRANTS, BY AREA, INSTITUTION, AND PRINCIPAL INVESTIGATOR

INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRG	DOLLARS
JAPAN—(CON.)				
NAKAMURA, TAKASHI	CLINICAL STUDY OF BRONCHIAL CIRCULATION	R01HE 08018-06	CVB	4,000
NAKANISHI, KOJI	STRUCTURE DETERMINATION OF NATURAL PRODUCTS	R01CA 08394-03	MCHA	10,500
INSTITUTION TOTAL 4	29,300			
TOKUSHIMA				
TOKUSHIMA UNIVERSITY OF				
YOSHIDA, AKIRA	FATTY LIVERS DUE TO AMINO ACID IMBALANCES	R05TW 00274-02	IFRC	2,500
INSTITUTION TOTAL 1	2,500			
TOKYO				
INSTITUTE OF PUBLIC HEALTH				
URATA, GUMPEI	FORMATION OF ALA BY THE LIVER MITOCHONDRIA	R01AM 06454-05	BIO	3,000
INSTITUTION TOTAL 1	3,000			
KAKUFUKAI SOCIAL WELFARE CORPORATION -RESEARCH INSTITUTE				
MATSUYAMA, HARUO	MORPHOLOGICAL AND BIOCHEMICAL STUDIES ON THE BRAIN	R01NB 07230-01	PTHA	10,000
INSTITUTION TOTAL 1	10,000			
KEIO UNIVERSITY				
TOMITA, TSUNEO	ELECTRIC SIGN OF SINGLE PHOTORECEPTORS	R01NB 06421-03	VIS	8,200
WATANABE, TSUTOMU	EVOLUTIONARY RELATIONSHIPS OF RESISTANCE FACTORS	R01AI 08078-01	VR	10,150
INSTITUTION TOTAL 2	18,350			
KITASATO INSTITUTE FOR INFECTIOUS DISEASES				
HATA, TOJU	ISOLATION AND SCREENING OF ANTICANCER ANTIBIOTICS	R01CA 05085-08	PHRB	17,950
INSTITUTION TOTAL 1	17,950			
MEGURO PARASITOLOGICAL MUSEUM				
KAMEGAI, SATORU	TRANSPORTATION OF PUBLICATION	R01AI 08250-01	NSS	494
INSTITUTION TOTAL 1	494			
TOHO UNIVERSITY				
SOKABE, HIROFUMI	RENIN AND EURYHALINITY	R01HE 10338-03	PHY	6,000
INSTITUTION TOTAL 1	6,000			
TOKYO DENTAL UNIVERSITY				
TAKUMA, SHOSABURO	DEVELOPMENT OF PERITUBULAR DENTIN ELECTRONMICROSCOPY	R01DE 01791-05	DEN	2,900
INSTITUTION TOTAL 1	2,900			
TOKYO MEDICAL AND DENTAL UNIVERSITY				
OTSUKA, MASANORI	INHIBITORY TRANSMITTERS IN MAMMALIAN CNS	R01NB 07440-01	NEUA	6,000
INSTITUTION TOTAL 1	6,000			
TOKYO METROPOLITAN UNIVERSITY				
AKINO, MIKI	BIOCHEMICAL ROLE OF PTERIDINES	R01AM 11100-02	PC	3,600
INSTITUTION TOTAL 1	3,600			
TOKYO UNIVERSITY OF				
CHINO, HARUO	FAT TRANSPORT DIFFERENCE BETWEEN MAMMALS AND INSECTS	R01AM 09727-03	MET	1,000
EBASHI, SETSURO	MOLECULAR MECHANISM OF MUSCLE RELAXATION	R01AM 04810-08	BBCB	9,830
FUJIMURA, OSAMU	DIGITALLY CONTROLLED DYNAMIC RADIOGRAPHY	R01NB 07233-02	CMS	4,100
IBAYASHI, HIROSHI	STUDIES OF STEROID HORMONES IN JAPAN	R01AM 10131-03	END	7,000
IRIE, MINORU	REGULATORY FACTORS OF HUMAN GROWTH HORMONE SECRETION	R01AM 10138-03	END	9,150
ISHIKAWA, TATSUO	GENETIC FINE STRUCTURE AND FUNCTION OF GENE	R01GM 10505-05	GEN	9,290
KOBAYASHI, HIDESHI	BIOCHEMICAL RESEARCH ON NEUROSECRETION	R01AM 03678-08	END	11,240
MATSUZAKI, FUKASHI	STUDIES ON GROWTH HORMONE IN JAPAN	R01HD 01944-03	HED	5,800
NAGATAKI, SHIGENBU	THYROID FUNCTION IN CHRONIC EXCESS IODIDE INGESTION	R01AM 07889-05	END	19,950
NAKAYAMA, TETSUYA	FORMATION OF ESTROGENS IN PREGNANCY	R01HD 02961-01	HED	10,000
NODA, HARUHIKO	ACTOMYOSIN AND MUSCLE MICROSTRUCTURE	R01HE 06041-07	BBCB	5,460
SAKAI, FUMINORI	MICROPUNCTURE STUDY ON RENAL TUBULAR FUNCTION	R01AM 09742-03	PHY	7,000
SHIZUME, KAZUO	CONTROL OF THYROID FUNCTION BY CENTRAL NERVOUS SYSTEM	R01AM 07208-06	END	8,800
SUZUKI, JUN-ICHI	OCULAR AND POSTURAL EFFECTS OF SINGLE OTOLITH ORGANS	R01NB 06585-03	CMS	4,700
TERAYAMA, HIROSHI	INTERACTION BETWEEN CARCINOGEN AND CELLULAR COMPONENTS	R01CA 05246-08	PHRB	1,955
TSUBOI, MASAMICHI	STRUCTURE OF NUCLEIC ACIDS USING INFRARED SPECTRA	R01GM 10024-05	BBCA	7,380
UEDA, HIDEO	ETIOLOGICAL STUDY OF AORTITIS SYNDROME	R01HE 10597-02	IMB	1,507
UEDA, HIDEO	CIRCULATION STUDIES BY CATHETER P-N JUNCTION DETECTOR	R01HE 10630-02	CVB	2,056
YOSHIDA, SHO	CONTROL OF SECRETION OF ANTIURETIC HORMONE	R01AM 11278-02	GMB	8,650
INSTITUTION TOTAL 19	134,868			
TOKYO UNIVERSITY OF EDUCATION				
HAYASHI, YUJIRO	MUSCLE DIFFERENTIATION AND EMBRYONIC TISSUE INTERACTION	R01HD 02393-02	CBY	5,710
INSTITUTION TOTAL 1	5,710			
TORANOMON HOSPITAL				
KAWAI, ATSUO	STUDIES ON HORMONE PRODUCTION ASSOCIATED WITH LUNG CANC	R05TW 00309-02	IFRC	2,500
INSTITUTION TOTAL 1	2,500			

TABLE 2—RESEARCH GRANTS, BY AREA, INSTITUTION, AND PRINCIPAL INVESTIGATOR

INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRG	DOLLARS
JAPAN—(CON.)				
WAKAYAMA				
WAKAYAMA MEDICAL COLLEGE				
YASE, YOSHIRO	AMYOTROPHIC LATERAL SCLEROSIS	R01NB 05441-04	NEUB	12,640
INSTITUTION TOTAL	1	12,640		
STATE TOTAL	79	698,048		
KOREA				
SEOUL				
SEOUL NATIONAL UNIVERSITY				
KO, KWANG WOOK	CALCIUM HOMEOSTASIS IN GROWTH OF THE KOREAN CHILD	R22AM 07621-04	SSS	13,258
LEE, HO WANG	JAPANESE ENCEPHALITIS VIRUS OVERWINTERING	R22AI 06103-04	SSS	12,765
INSTITUTION TOTAL	2	26,023		
STATE TOTAL	2	26,023		
LEBANON				
BEIRUT				
AMERICAN UNIVERSITY OF BEIRUT				
BRANDSTATER, BERNARD J	DEVELOPMENT OF LUNG STABILITY IN INFANTS	R01HD 00780-04	HED	21,549
HANANIA, GEORGE I H	HEME-LINKED EFFECTS IN HEMOGLOBIN REACTIONS	R01HE 04994-09	BBCB	27,021
MIKAEJIAN, DIRAN O	SINGLE UNIT STUDY OF THE INFERIOR COLLICULUS	R01NB 06657-02	CMS	10,860
REINHOLD, JOHN G	BIOCHEMICAL STUDIES OF ZINC DEFICIENCY	R01AM 09622-03	NTN	37,176
SCHACHER, JOHN F	HOST PARASITE RELATIONSHIPS IN FILARIASIS	R01AI 08095-01	TMP	27,252
INSTITUTION TOTAL	5	123,858		
STATE TOTAL	5	123,858		
MEXICO				
MEXICO				
HOSPITAL INFANTIL				
CHAVARRIA, CESAR	CHEMICAL HOMEOSTASIS IN INFANTILE PROTEIN MALNUTRITION	R01AM 10069-03	NTN	15,682
INSTITUTION TOTAL	1	15,682		
INSTITUTO NACIONAL DE CARDIOLOGIA				
BIRO, CARLOS E	ETIOLOGY OF RHEUMATOID ARTHRITIS	R01AM 10654-03	ALY	8,600
INSTITUTION TOTAL	1	8,600		
INSTITUTO NACIONAL DE LA NUTRICION				
CHAVEZ, ADOLFO	NUTRITION AND DEVELOPMENT OF CHILDREN IN RURAL AREAS	R22HD 03942-01	SSS	25,239
LISKER, RUBEN	HEMATOLOGICAL GENETIC TRAITS OF MEXICANS	R01HD 00862-05	HEM	13,500
LISKER, RUBEN	CHROMOSOME STUDIES IN PRELEUKEMIA AND LEUKEMIA	R05TW 00312-02	IFRC	2,500
MAISTERRENA, JORGE A	IODINE NUTRITION IN ENDEMIC GOITER	R22AM 08428-04	SSS	13,250
ROJKIND, MARCOS	THE ALDEHYDE OF COLLAGEN AND ITS ROLE IN CROSSLINKING	R01AM 11045-03	PC	6,953
INSTITUTION TOTAL	5	61,442		
INSTITUTO POLITECNICO NACIONAL-CENTRO DE INVESTIG Y DE ESTUDIOS				
ERLUJ, DAVID	ACTIVE NA ⁺ TRANSPORT IN HEART MUSCLE	R05TW 00272-02	IFRC	3,225
INSTITUTION TOTAL	1	3,225		
MEXICO NATIONAL UNIVERSITY OF				
BIAGI-F, FRANCISCO	PATHOGENICITY AND SEROLOGY OF E HISTOLYTICA	R01AI 03129-09	TMP	16,170
PINA, ENRIQUE	INOSITOL BIOSYNTHESIS IN NEUROSPORA CRASSA	R05TW 00266-02	IFRC	2,500
SANCHEZ DE JIMENEZ, ESTELA	NUTRITIONAL STATUS AND ERYTHROCYTE ENZYME ACTIVITIES	R01AM 13088-01	NTN	11,950
INSTITUTION TOTAL	3	30,620		
STATE TOTAL	11	119,569		
NETHERLANDS				
AMSTERDAM				
CENTRAL INSTITUTE FOR BRAIN RESEARCH				
SCHADE, J P	SURFACE AREA AND PATTERNS OF CORTICAL NEURONS	R01NB 03D48-07	PHY	8,000
INSTITUTION TOTAL	1	8,000		
EXCERPTA MEDICA FOUNDATION				
WOERDEMAN, MARTINUS W	CONTINUATION OF CANCER SECTION OF EXCERPTA MEDICA	R01CA 09346-15	BCM	10,667
INSTITUTION TOTAL	1	10,667		
GRONINGEN				
GRONINGEN STATE UNIVERSITY				
JONXIS, J H P	MOLECULAR BIOCHEMISTRY OF HAEMOGLOBINS	R01HE 06531-07	BIO	2,000
VAN BRUGGEN, ERNST F	HIGH RESOLUTION ELECTRON MICROSCOPY OF BIOPOLYMERS	R05TW 00262-02	IFRC	1,350
INSTITUTION TOTAL	2	3,350		

TABLE 2—RESEARCH GRANTS, BY AREA, INSTITUTION, AND PRINCIPAL INVESTIGATOR

INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRG	DOLLARS
NETHERLANDS—(CON.)				
LEIDEN				
LEIDEN UNIVERSITY OF				
SINISALCO, MARCELLO	X-CHROMOSOME MAPPING IN SARDINIA AND ELSEWHERE	R01GM 13415-03	GEN	19,800
INSTITUTION TOTAL 1	19,800			
NIJMEGEN				
NIJMEGEN UNIV OF				
MEUWISSEN, JOSEPHUS H	IMMUNITY AND MALARIA	R05TW 00305-02	IFRC	2,500
VAN LEUSDEN, HUBERTUS A	DE NOVO SYNTHESIS OF STEROIDS BY HUMAN TERM PLACENTA	R05TW 00183-03	IFRC	2,500
INSTITUTION TOTAL 2	5,000			
THE HAGUE				
NEDERLANDSE CENTRALE ORGANISATIE TNO-VOEDINGSORGANISATIE				
VAN BUCHEM, FRANS S P	LONG TERM FIELD SURVEY ON CORONARY HEART DISEASE	R01HE 05471-08	SRC	4,000
INSTITUTION TOTAL 1	4,000			
STATE TOTAL 8	50,817			
NEW ZEALAND				
AUCKLAND				
AUCKLAND UNIVERSITY OF				
BULLIVANT, STANLEY	THE FINE STRUCTURE OF NUCLEI AND CHROMOSOMES	R01GM 14365-02	MBY	3,000
MATTHEWS, RICHARD E	NUCLEIC ACIDS, VIRUS SYNTHESIS AND VIRUS INHIBITION	R01AI 04973-06	VR	20,000
INSTITUTION TOTAL 2	23,000			
DUNEDIN				
OTAGO UNIVERSITY OF				
GRIEW, STEPHEN	AGING AND THE DEVELOPMENT OF ANTICIPATORY RESPONSES	R01HD 01691-03	EXP	754
HOWIE, JOHN B	AUTOIMMUNE DISEASE IN N Z B MICE AND RELATED STRAINS	R01AM 07268-06	IMB	20,674
SMIRK, FREDERICK H	SPONTANEOUS GENETIC HYPERTENSION	R01HE 10942-01	CVA	18,439
INSTITUTION TOTAL 3	39,867			
HAMILTON				
NEW ZEALAND DEPARTMENT OF AGRICULTURE-RUAKURA AGRICULTURAL RESEARCH CENTER				
WRIGHT, DOUGLAS E	NITROGEN METABOLISM & SPORIDESMIN POISONING	R05TW 00315-02	IFRC	2,500
INSTITUTION TOTAL 1	2,500			
STATE TOTAL 6	65,367			
NORWAY				
BERGEN				
BERGEN UNIVERSITY OF				
SELVIG, KNUT A	CEMENTUM IN PERIODONTAL DISEASE	R01DE 02373-03	DEN	4,620
TONDER, OLAV	IMMUNOLOGICAL STUDIES ON RHEUMATOID TISSUE	R05TW 00172-03	IFRC	2,500
INSTITUTION TOTAL 2	7,120			
OSLO				
OSLO UNIVERSITY OF				
AMUNDSEN, EGIL	ROLE OF PLASMA KININS IN PANCREATITIS	R01AM 10780-02	GMA	13,500
ANDERSEN, PER O	INTRACELLULAR STUDIES IN CENTRAL NERVOUS STRUCTURES	R01NB 04764-05	NEUA	12,260
INSTITUTION TOTAL 2	25,760			
STATE TOTAL 4	32,880			
PAKISTAN				
MYMENSINGH				
EAST PAKISTAN AGRICULTURAL UNIVERSITY				
KHAN, DANIEL H	EFFECT OF PHOSPHATE ON THE NUTRITIVE VALUES IN CROPS	R05TW 00253-02	IFRC	2,311
INSTITUTION TOTAL 1	2,311			
STATE TOTAL 1	2,311			
PAPUA/N GUINEA				
BOROKO				
PAPUA AND NEW GUINEA, UNIVERSITY OF				
EWERS, WILLIAM H	BAT MALARIA INVESTIGATION	R01AI 08449-01	TMP	2,600
INSTITUTION TOTAL 1	2,600			
STATE TOTAL 1	2,600			

TABLE 2—RESEARCH GRANTS, BY AREA, INSTITUTION, AND PRINCIPAL INVESTIGATOR

INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRG	DOLLARS
PERU				
LIMA				
BRITISH AMERICAN HOSPITAL				
BAERTL, JUAN M	FOOD SUPPLEMENTS AND GROWTH IN THE UNDERNOURISHED	R22AM 09137-04	SSS	35,145
INSTITUTION TOTAL	1 35,145			
UNIVERSIDAD NACIONAL MAYOR DE SAN MARCOS DE LIMA				
RAMOS, JOSE R	ERYTHROPOIESIS IN HIGH ALTITUDE STUDY WITH H ³ THYMIDINE	R05TW 00210-02	IFRC	2,500
REYNAFARJE, CESAR	ERYTHROCYTIC BALANCE AT HIGH-ALTITUDE	R01HE 07416-06	HEM	9,960
INSTITUTION TOTAL	2 12,460			
UNIVERSIDAD PERUANA 'CAYETANO HEREDIA'				
AGUSTI, REGULO	THE QUANTITATION VARIABILITY OF THE ORTHOGONAL VECTORCA	R05TW 00290-02	IFRC	1,650
MONGE, CARLOS, JR	KIDNEY FUNCTION IN HIGH ALTITUDE DWELLERS	R01HE 11224-02	CVB	15,870
MORI-CHAVEZ, PABLO	THE EFFECT OF HIGH ALTITUDE ON NEOPLASTIC GROWTH	R01CA 08264-03	PTHB	25,300
PENALOZA, DANTE	CARDIOPULMONARY PHYSIOLOGY IN CHILDREN	R01HE 06910-06	CVA	31,143
ZAPATA-ORTIZ, VICENTE	CIRCULATION IN HIGH ALTITUDES - SHOCK	R01HE 08732-05	CVA	22,250
INSTITUTION TOTAL	5 96,213			
VETERINARY INSTITUTE FOR TROPICAL AND HIGH ALTITUDE RESEARCH				
MORO, MANUEL	MICROBIOLOGICAL STUDIES AT HIGH ALTITUDE	R01AI 06656-02	BM	15,494
INSTITUTION TOTAL	1 15,494			
STATE TOTAL	9 159,312			
PHILIPPINES				
MANILA				
NATIONAL INSTITUTE OF SCIENCE AND TECHNOLOGY				
INTENGAN, CARMEN	THE CALORIE AND NUTRIENT REQUIREMENTS OF FILIPINOS	R22AM 12030-01	SSS	31,573
INSTITUTION TOTAL	1 31,573			
STATE TOTAL	1 31,573			
POLAND				
KRAKOW				
AKADEMIA MEDYCZNA WE KRAKOW				
KONTUREK, STANISLAW J	INHIBITORY MECHANISMS OF GASTRIC SECRETIÓN	R05TW 00217-02	IFRC	5,000
INSTITUTION TOTAL	1 5,000			
STATE TOTAL	1 5,000			
PORTUGAL				
OPORTO				
GENERAL HOSPITAL OF SANTO ANTONIO				
ANDRADE, CORINO	BIOCLINICAL INVESTIGATION - PORTUGUESE PARAMYLOIDOSIS	R01AM 05728-05	PTHA	6,086
INSTITUTION TOTAL	1 6,086			
STATE TOTAL	1 6,086			
SINGAPORE				
SINGAPORE				
SINGAPORE UNIVERSITY OF				
SHANMUGARATNAM, K	NASOPHARYNGEAL CARCINOMA	R01CA 08448-03	PTHB	7,230
INSTITUTION TOTAL	1 7,230			
STATE TOTAL	1 7,230			
S AFR REP OF				
CAPE TOWN				
CAPE TOWN UNIVERSITY OF				
EALLES, LENNOX	PORPHYRIA AND DISORDERS OF PORPHYRIN METABOLISM	R01AM 03997-08	GMA	33,910
HANSEN, JOHN D	HUMAN PROTEIN MALNUTRITION	R01AM 03995-09	NTN	39,330
INSTITUTION TOTAL	2 73,240			
GRAHAMSTOWN				
RHODES UNIVERSITY				
ROSE, ELIZABETH F	ETIOLOGY OF OESOPHAGEAL CANCER IN TRANSKEIAN BANTU	R01CA 06565-05	EOC	35,600
INSTITUTION TOTAL	1 35,600			
JOHANNESBURG				
WITWATERSRAND, UNIVERSITY OF THE				
BOTHWELL, THOMAS H	IRON OVERLOAD IN THE BANTU	R01AM 04912-08	HEM	15,967

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INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRG	DOLLARS
S AFR REP OF—(CON.)				
INSTITUTION TOTAL	1	15,967		
PRETORIA				
SOUTH AFRICAN COUNCIL FOR SCIENTIFIC AND INDUSTRIAL RESEARCH				
ELSDON-DEW, RONALD	FACTORS DETERMINING INVASIVENESS IN E HISTOLYTICA	R01AI 01592-12	TMP	35,112
INSTITUTION TOTAL	1	35,112		
STATE TOTAL	5	159,919		
SPAIN				
BARCELONA				
BARCELONA UNIVERSITY				
ROSELL-PEREZ, MANUEL	STUDIES ON THE UDPG-GLUCAN TRANSFERASE SYSTEMS	R01AM 10023-03	PC	11,950
INSTITUTION TOTAL	1	11,950		
CONSEJO SUPERIOR DE INVEST CIENT				
SUBIRANA, JUAN A	CHARACTERIZATION OF NUCLEAR PROTEINS FROM INVERTEBRATES	R01GM 13645-03	MBY	9,900
INSTITUTION TOTAL	1	9,900		
MADRID				
CONSEJO SUPERIOR DE INVEST CIENT				
VALVERDE, FACUNDO	THE THALAMIC RETICULAR SYSTEM	R05TW 00202-03	IFRC	2,500
INSTITUTION TOTAL	1	2,500		
CONSEJO SUPERIOR DE INVEST CIENT-INST GREGORIO MARANON				
HEREDIA, CLAUDIO F	PROTEIN BIOSYNTHESIS IN YEAST	R05TW 00302-02	IFRC	2,500
INSTITUTION TOTAL	1	2,500		
CONSEJO SUPERIOR DE INVEST CIENT-INST SANTIAGO RAMON Y CAJAL DE BIOLOGIA				
VAZQUEZ, D	INHIBITORS OF PROTEIN SYNTHESIS AT THE RIBOSOME LEVEL	R01AI 08598-01	MBC	12,000
INSTITUTION TOTAL	1	12,000		
SANTIAGO				
SANTIAGO DE COMPOSTELA, UNIVERSIDAD DE				
SIERRA, GERMAN	TOPOGRAPHICAL AND FUNCTIONAL ASPECTS OF THE SECONDARY	R05TW 00256-02	IFRC	2,450
INSTITUTION TOTAL	1	2,450		
STATE TOTAL	6	41,300		
SWEDEN				
GOTHENBURG				
GOTHENBURG UNIVERSITY OF				
ABRAHAMSSON, SIXTEN	MOLECULAR ARRANGEMET IN COMPLEX LIPIDS	R01GM 11653-08	BBCA	32,711
AHREN, KURT E	ACTIONS OF GONADOTROPINS ON METABOLISM OF OVARIAN CELLS	R01HD 02795-02	REB	9,700
BERGENTZ, SVEN ERIK	ROLE PLAYED BY VARIOUS COMPON OF BLOOD ON FORM FAT EMBOL	R05TW 00125-03	IFRC	1,870
BRANEMARK, PER-INGVAR	BONE MARROW FUNCTION	R01HE 05724-08	HEM	12,947
FOLKOW, BJORN U	NEURO-HORMONAL CONTROL OF VASCULAR SECTIONS	R01HE 05675-07	PHY	21,067
LAGERKVIST, ULF G	NUCLEOTIDE SEQUENCES IN AMINO ACID ACCEPTOR RNA	R01GM 10121-06	PC	15,500
LARSSON, K	NEUROLOGICAL MECHANISMS IN REPRODUCTIVE BEHAVIOR	R01HD 00344-07	EPR	20,800
INSTITUTION TOTAL	7	114,595		
MUNICIPAL VIROLOGICAL LABORATORY				
LYCKE, ERIK N	TOXOPLASMA PARASITE - HOST CELL INTERACTIONS	R01AI 05074-06	TMP	14,240
INSTITUTION TOTAL	1	14,240		
LUND				
LUND UNIVERSITY OF				
BORGSTROM, BENGT	METABOLISM OF EXOGENEOUS AND ENDOGENEOUS LIPIDS	R01HE 05302-08	MET	17,936
FALCK, BENGT	MECHANISMS OF STORAGE AND RELEASE OF MONOAMINES	R01NB 06701-02	NEUB	10,746
LEVAN, J ALBERT	CHROMOSOME STUDIES OF ROUS SARCOMA IN MAMMALS	R01CA 06415-06	CBY	32,520
WESTLING, HAKAN	HISTAMINE METABOLISM IN MAN	R01AI 03379-08	GMA	12,900
INSTITUTION TOTAL	4	74,102		
STOCKHOLM				
KAROLINSKA INSTITUTE				
BLOMBACK, BIRGER E	STRUCTURE OF FIBRINOGEN	R01HE 07379-05	HEM	23,130
BLOMSTRAND, ROLF L	LIPID METABOLISM IN RELATION TO ATHEROSCLEROSIS	R01HE 07663-07	MET	15,000
DIAMANT, BERTIL	THE MECHANISM OF MAST CELL DEGRANULATION	R05TW 00306-02	IFRC	2,500
DICZFALUSY, EGON R	STEROID METABOLISM IN THE HUMAN NEWBORN AT TERM	R01HD 01924-03	END	11,308
EDSTROM, JAN-ERIK E	RELATION OF CHROMOSOMAL RNA TO DNA AND RNA FRACTIONS	R01GM 14896-02	GEN	27,679
GIACOBINI, EZIO	METABOLISM AND FUNCTION OF SINGLE NERVE CELLS	R01NB 04561-06	NEUB	11,400
HOLMSTEDT, BO R	CLINICAL TOXICOLOGICAL IMPLICATIONS OF DRUG METABOLISM	P11GM 13978-03	PTR	59,990
JORPES, JOHAN ERIK	SECRETIN - CHOLECYSTOKININ	R01AM 06410-06	GM	17,000
KLEIN, GEORGE	CYTOGENETICS OF VARIABILITY IN CANCER CELL POPULATIONS	R01CA 03700-11	GEN	40,000
LAGERLOF, BENGT A M	ELECTRON MICROSCOPY OF THYMONAS IN C57B1 MICE	R05TW 00228-03	IFRC	2,500

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INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRG	DOLLARS
SWEDEN—(CON.)				
REICHARD, P A	CONTROL OF ENZYMIC SYNTHESIS OF DEOXYRIBONUCLEOTIDES	R01CA 07897-05	PC	28,940
UVNAS, BORJE K	FORMATION, CHEMISTRY AND FUNCTION OF SRS	R01AM 04063-08	PHRA	18,445
WERSALL, JAN O	STUDIES ON LABYRINTHINE RECEPTORS CELLS	R01NB 03956-06	CMS	13,415
INSTITUTION TOTAL	13 271,307			
ROYAL INSTITUTE OF TECHNOLOGY				
FANT, C GUNNAR M	SPEECH PROCESSES STUDIED BY MEANS OF SYNTHESIS	R01HD 02111-03	CMS	21,430
FANT, GUNNAR	ACOUSTIC SPECIFICATION OF SPEECH	R01NB 04003-06	CMS	24,000
INSTITUTION TOTAL	2 45,430			
UMEA				
UMEA UNIVERSITY OF				
HELLMAN, BO O	HISTOPHYSIOLOGY OF THE ISLETS OF LANGERHANS	R01AM 12535-01	PTHA	43,775
INSTITUTION TOTAL	1 43,775			
UPPSALA				
UPPSALA UNIVERSITY OF				
BARANY, ERNST H	COMPARATIVE STUDY OF GLAUCOMA	R01NB 03637-05	VIS	24,000
BILL, ANDERS	STUDIES ON INTRAOCULAR FLUID DYNAMICS	R01NB 06535-03	VIS	21,800
LIEBERMAN, EDWARD M	NERVE WATER TRANSPORT AND HYDROSTATIC PRESSURE	R01NB 07443-01	PHY	4,124
STRANDBERG, BROR E	STRUCTURE OF A SMALL SPHERICAL VIRUS AND OF AN ENZYME	R01AI 07382-03	BBCB	40,250
TEORELL, TORSTEN	BIOPHYSICS OF WATER TRANSPORT IN CELL MEMBRANE	R01NB 03712-05	PHY	26,168
INSTITUTION TOTAL	5 116,342			
STATE TOTAL	33 679,791			
SWITZERLAND				
BASEL				
BASEL UNIVERSITY OF				
BECK, EUGENE ALEXANDER	INHIBITION OF PROTEOLYSIS OF FIBRINOGEN AND FIBRIN BY P	R05TW 00263-02	IFRC	2,500
INSTITUTION TOTAL	1 2,500			
BERN				
BERN UNIVERSITY OF				
GOLDMANN, HANS	STUDIES ON VISUAL FUNCTION	R01NB 03638-04	SRC	31,450
INSTITUTION TOTAL	1 31,450			
DAVOS				
SCHWEIZERISCHES FORSCHUNGSINSTITUT				
FLEISCH, HERBERT A	ACTIVATION AND INHIBITION IN CALCIFICATION	R01AM 07266-05	GMB	21,640
INSTITUTION TOTAL	1 21,640			
GENEVA				
GENEVA UNIVERSITY OF				
BAUMANN, FRITZ	EFFECTS OF IONS ON THE RETINAL POTENTIAL	R05TW 00296-02	IFRC	2,440
KLEIN, DAVID	GENETIC STUDIES OF TAPETO-RETINAL DEGENERATIONS	R01NB 04590-05	GEN	7,250
INSTITUTION TOTAL	2 9,690			
INTERNATIONAL UNION AGAINST CANCER				
DELAFRESNAYE, JOHN F	PROGRAMME OF THE INTERNATIONAL UNION AGAINST CANCER	R01CA 05096-07	NSS	50,000
INSTITUTION TOTAL	1 50,000			
WORLD HEALTH ORGANIZATION				
GOODMAN, H C	HUMAN GAMMA-G-IMMUNOGLOBULINS FOR INTRAVENOUS INJECTION	R01AI 06976-03	ALY	19,346
INSTITUTION TOTAL	1 19,346			
LAUSANNE				
LAUSANNE UNIVERSITY OF				
RABINOWICZ, THEODORE	THE PRENATAL DEVELOPMENT OF HUMAN CEREBRAL CORTEX	R01HD 00326-11	NEUA	12,300
INSTITUTION TOTAL	1 12,300			
ZURICH				
ZURICH UNIVERSITY OF				
FROESCH, E RUDOLF	ACTION OF INSULIN AND RELATED AGENTS ON ADIPOSE	R01AM 05387-07	MET	18,690
INSTITUTION TOTAL	1 18,690			
STATE TOTAL	9 165,616			
THAILAND				
BANGKOK				
UNIVERSITY OF MEDICAL SCIENCES				
GONGSAKDI, DOUNG D	HORMONE EXCRETION IN NORMAL AND ABNORMAL PREGNANCY	R05TW 00222-03	IFRC	1,300
LEITCH, GORDON J	CHOLERA TOXIN EFFECTS ON INTESTINAL GENERAL PHYSIOLOGY	R01AI 08766-01	SSS	13,800
NA-NAKORN, SUPA	THALASSEMIAS, HEMOGLOBINOPATHIES AND RELATED PROBLEMS	R01AM 09805-03	HEM	12,000
OLSON, JAMES A	METABOLISM AND FUNCTION OF CAROTENOIDS AND VITAMIN A	R01AM 11367-01	PC	29,000

TABLE 2—RESEARCH GRANTS, BY AREA, INSTITUTION, AND PRINCIPAL INVESTIGATOR

INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRG	DOLLARS
THAILAND—(CON.)				
INSTITUTION TOTAL	4	56,100		
STATE TOTAL	4	56,100		
UNITED KINGDOM				
ABERDEEN				
ABERDEEN UNIVERSITY OF				
KOSTERLITZ, HANS W	MECHANISM OF ACTION OF MORPHINE AND OTHER ANALGESICS	R01NB 03026-08	PHRA	10,260
INSTITUTION TOTAL	1	10,260		
BELFAST				
QUEENS UNIVERSITY OF BELFAST				
ELMORE, DONALD T	KINETICS OF THROMBIN- AND TRYPSIN-CATALYSED REACTIONS	R01HE 07062-05	BBCA	4,047
INSTITUTION TOTAL	1	4,047		
BIRMINGHAM				
BIRMINGHAM UNIVERSITY OF				
ASHTON, ERIC H	FUNCTIONAL INTERACTION OF MUSCLE AND BONE IN PRIMATES	R01HD 00450-06	AFY	10,708
INSTITUTION TOTAL	1	10,708		
CAMBRIDGE				
AGRICULTURAL RESEARCH COUNCIL—INSTITUTE ANIMAL PHYSIOLOGY				
EVANS, MARTIN H	ACTIONS OF BIOTOXINS ON CELL MEMBRANES	R05TW 00355-01	IFRC	2,491
INSTITUTION TOTAL	1	2,491		
CAMBRIDGE UNIVERSITY OF				
GRESHAM, GEOFFREY A	DRUGS AFFECTING LIPID TRANSPORT AND ATHEROSCLEROSIS	R01HE 09969-03	SRC	12,520
GRIFFIN, BEVERLY S	THE SYNTHESIS OF OLIGO- AND POLYRIBONUCLEOTIDES	R01CA 06066-07	BIO	11,100
HORN, GABRIEL	NEURAL STUDIES OF ATTENTIVE BEHAVIOUR AND LEARNING	R01NB 04787-05	NEUA	14,966
INSTITUTION TOTAL	3	38,586		
CARDIFF				
WALES UNIVERSITY OF—UNIVERSITY COLLEGE OF SOUTH WALES AND MONMOUTHSHIRE				
DODGSON, KENNETH S	SULPHATE ESTERS OF BIOLOGICAL IMPORTANCE	R01AM 01982-10	PC	23,232
INSTITUTION TOTAL	1	23,232		
GLASGOW				
STRATHCLYDE UNIVERSITY OF				
PARFITT, ROBERT T	CHEMICAL AND STRUCTURE-ACTION STUDIES OF CNS AGENTS	R01NB 07170-01	MCHA	9,600
INSTITUTION TOTAL	1	9,600		
LEEDS				
LEEDS UNIVERSITY OF				
JENNINGS, JOSEPH B	NUTRITION OF FREE LIVING AND PARASITIC HELMINTHS	R01AI 06295-02S1	TMP	860
JENNINGS, JOSEPH B	NUTRITION OF FREE LIVING AND PARASITIC HELMINTHS	R01AI 06295-03	TMP	7,050
LEDSOME, JOHN R	THE HYPERPNEA OF EXERCISE AND THE MOTOR CORTEX	R05TW 00234-03	IFRC	2,500
INSTITUTION TOTAL	3	10,410		
LONDON				
FEDERATION DENTAIRE INTERNATIONALE				
LAWTON, FRANK E	TRANSACTIONS OF XVTH WORLD DENTAL CONGRESS	R13DE 02524-02	NSS	7,464
INSTITUTION TOTAL	1	7,464		
LONDON UNIVERSITY OF -CHARING CROSS HOSPITAL MEDICAL SCHOOL				
DE WARDENER, HUGH E	CONTROL OF SODIUM EXCRETION	R01AM 05008-07	CVB	29,027
INSTITUTION TOTAL	1	29,027		
LONDON UNIVERSITY OF -INSTITUTE OF DERMATOLOGY				
MAGNUS, IAN A	CARCINOGENESIS OF SKIN BY MONOCHROMATIC UV	R01CA 08923-02	RAD	5,918
INSTITUTION TOTAL	1	5,918		
LONDON UNIVERSITY OF -INSTITUTE OF PSYCHIATRY				
RODNIGHT, RICHARD	PHOSPHOPROTEIN METABOLISM IN CEREBRAL MEMBRANES	R01NB 05502-04	NEUB	9,840
INSTITUTION TOTAL	1	9,840		
LONDON UNIVERSITY OF -LONDON SCHOOL OF HYGIENE AND TROPICAL MEDICINE				
REID, DONALD D	HEALTH SURVEY OF BRITISH MIGRANTS IN UNITED STATES	R01HE 04775-07	SRC	28,550
SHORTT, HENRY E	LIFE-HISTORY OF BABESIA CANIS IN MAMMAL AND ARTHROPOD	R01AI 07368-02	TMP	27,013
INSTITUTION TOTAL	2	55,563		
LONDON UNIVERSITY OF -MIDDLESEX HOSPITAL MEDICAL SCHOOL				
O RIORDAN, JEFFREY L	STUDIES ON MINERAL METABOLISM	R01AM 12179-01	GMB	18,802
INSTITUTION TOTAL	1	18,802		
LONDON UNIVERSITY OF -ST. MARYS HOSPITAL MEDICAL SCHOOL				
NEUBERGER, ALBERT	STRUCTURE AND FUNCTION OF GLYCOPROTEINS AND AMINOSUGARS	R01GM 08171-07	PC	8,999

TABLE 2—RESEARCH GRANTS, BY AREA, INSTITUTION, AND PRINCIPAL INVESTIGATOR

INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRG	DOLLARS
UNITED KINGDOM—(CON.)				
INSTITUTION TOTAL		1	8,999	
LONDON UNIVERSITY OF -UNIVERSITY COL HOSPITAL MEDICAL SCHOOL				
JUDAH, JACOB D	CATIONIC ALTERATIONS IN CELLULAR INJURY	R0IAM 11468-02	PTH8	2,990
MC LEAN, ANDRE E	DIET, MICROSOMAL ENZYMES, AND HEPATOTOXICITY	R05TW 00293-02	IFRC	2,500
INSTITUTION TOTAL		2	5,490	
NEWCASTLE-UPON-TYNE				
NEWCASTLE UPON TYNE UNIVERSITY OF				
SWAN, GEORGE A	RESEARCH ON THE STRUCTURE AND FORMATION OF MELANINS	R01CA 06823-06	PC	4,112
INSTITUTION TOTAL		1	4,112	
NOTTINGHAM				
NOTTINGHAM UNIVERSITY OF				
JOHNSON, ALAN W	SYNTHESES OF PORPHINS, CORRINS AND RELATED RING SYSTEMS	R0IAM 11425-01	MCH8	8,081
INSTITUTION TOTAL		1	8,081	
OXFORD				
OXFORD UNIVERSITY OF				
KREBS, HANS A	REGULATION OF METABOLIC PROCESSES	R0IAM 11748-01	MET	31,660
POWELL, THOMAS P	CENTRIFUGAL FIBRES IN THE VISUAL SYSTEM	R01NB 06218-03	VIS	1,850
STEWART, ALICE M	THE SURVEY APPROACH TO PROBLEMS OF CANCER PREVALENCE	R01CA 05392-08	EDC	14,506
INSTITUTION TOTAL		3	48,016	
PORTSMOUTH				
PORTSMOUTH GROUP HOSPITAL MANAGEMENT COMMITTEE				
DARMADY, EDWARD M	THE ASSESSMENT OF THE FUNCTIONAL NEPHRON	R0IAM 09913-03	GM	11,695
INSTITUTION TOTAL		1	11,695	
READING				
NATIONAL INSTITUTE FOR RESEARCH IN DAIRYING				
FOLLEY, SYDNEY J	BLOOD OXYTOCIN LEVELS IN REPRODUCTION AND LACTATION	R01HD 00724-03	HED	9,680
INSTITUTION TOTAL		1	9,680	
SHEFFIELD				
SHEFFIELD UNIVERSITY OF				
BALL, JOHN N	PHYSIOLOGY AND ASSAY OF PROLACTIN IN FISH	R0IAM 12164-01	END	4,100
INSTITUTION TOTAL		1	4,100	
YORK				
YORK UNIVERSITY OF				
BRONK, J RAMSEY	CONTROL OF GROWTH AND METABOLISM BY THYROID HORMONES	R0IAM 10760-02	END	8,406
INSTITUTION TOTAL		1	8,406	
STATE TOTAL		31	344,527	
URUGUAY				
MONTEVIDEO				
UNIVERSITY OF THE REPUBLIC				
ARANA-INIGUEZ, ROMAN	EXTRACRANIAL ARTERIAL OCCLUSION - JOINT STUDY	R01HE 07589-06	SRC	34,150
BRANDA, LUIS A	OXYTOCIN AND PEPTIDE DEGRADATION BY HUMAN PLACENTA	R01HD 01587-03	HED	15,650
GARCIA AUSTT, ELIO	DEVELOPMENT OF SENSORY MECHANISMS	R01NB 04382-05	NEUA	26,800
INSTITUTION TOTAL		3	76,600	
STATE TOTAL		3	76,600	
VENEZUELA				
CARACAS				
ASSOCIATION FOR INVESTIGATIVE DERMATOLOGY				
CONVIT, JACINTO	DEVELOPMENT OF DERMATOLOGICAL RESEARCH IN VENEZUELA	R01AI 04216-06	BM	25,000
INSTITUTION TOTAL		1	25,000	
INSTITUTO VENEZOLANO DE INVESTIGACIONES CIENTIFICAS				
LAYRISSE, MIGUEL	THE PATHOPHYSIOLOGY OF TROPICAL ANEMIA	R01HE 06507-07	TMP	51,366
INSTITUTION TOTAL		1	51,366	
STATE TOTAL		2	76,366	
WEST GERMANY				
COLOGNE				
COLOGNE UNIVERSITY OF				
OVERATH, PETER	REGULATION AND GENETICS OF FATTY ACID SYNTHESIS	R05TW 00237-03	IFRC	2,500
INSTITUTION TOTAL		1	2,500	

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INVESTIGATOR	PROJECT TITLE	GRANT NO.	IRG	DOLLARS
WEST GERMANY—(CON.)				
FREIBURG				
FREIBURG UNIVERSITY OF				
MITTERMAYER, CHRISTIAN	BIOCHEMICAL AND CYTOPHOTOMETRIC STUDIES ON MITOTIC CYCLE	R05TW 00354-01	IFRC	2,470
INSTITUTION TOTAL	1 2,470			
HAMBURG				
HAMBURG UNIVERSITY				
WARTENBERG, HUBERT A	ELECTRON MICRO STUDIES CIRCUMVENT ORGANS MAMMALIAN BRAIN	R05TW 00295-02	IFRC	850
INSTITUTION TOTAL	1 850			
MUNICH				
MAX PLANCK INSTITUT FUR PSYCHIATRIE				
LUX, HANS D	ELECTROPHYSIOLOGY OF SYNAPTIC AND DENDRITIC MEMBRANES	R05TW 00275-02	IFRC	1,738
INSTITUTION TOTAL	1 1,738			
MUNICH UNIVERSITY OF				
RIEDEL, KLAUS P	RESPIRATORY FUNCTIONS IN EARLY CHILDHOOD	R05TW 00353-01	IFRC	2,433
SCRIBA, PETER C	ANABOLIC STEROIDS AND MUSCULAR PROTEIN SYNTHESIS	R05TW 00182-03	IFRC	2,500
INSTITUTION TOTAL	2 4,933			
STATE TOTAL	6 12,491			
YUGOSLAVIA				
SARAJEVO				
SARAJEVO UNIVERSITY OF				
NAKAS, MUHAMED	EFFECT OF X-RAY AND GAMMA RADIATION ON JUNCTIONAL CELL	R05TW 00261-02	IFRC	1,532
INSTITUTION TOTAL	1 1,532			
SKOPLJE				
SKOPLJE UNIVERSITY OF				
KARANFILSKI, BORISLAV T	SOME ASPECTS OF METABOLISM OF IODOHISTIDINES	R05TW 00269-02	IFRC	2,500
KOVACEV, VANCO P	EFFECTS OF METABOL OF PERFUSED ADIPOSE TISSUE	R05TW 00187-03	IFRC	2,000
INSTITUTION TOTAL	2 4,500			
ZAGREB				
INSTITUTE OF PUBLIC HEALTH				
BUZINA, RATKO	EPIDEMIOLOGY OF HEART DISEASE IN YUGOSLAVIA	R01HE 04774-09	SRC	10,497
INSTITUTION TOTAL	1 10,497			
ZAGREB, UNIVERSITY OF				
PALMOVIC, VLADIMIR	BRAIN TRAUMA	R05TW 00248-02	IFRC	2,480
INSTITUTION TOTAL	1 2,480			
STATE TOTAL	5 19,009			
GRAND TOTAL	13,123 626,418,028			

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