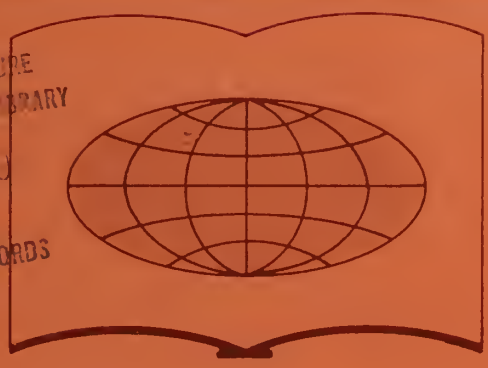


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# Pesticides DOCUMENTATION BULLETIN

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Volume 4                      Number 18  
AUGUST 30, 1968



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U.S. DEPARTMENT OF AGRICULTURE

# PESTICIDES DOCUMENTATION BULLETIN

Volume 4  
August 30, 1968  
Number 18

A Bi-Weekly Publication of U.S. Department of Agriculture

## OBJECTIVES AND SCOPE

The *Pesticides Documentation Bulletin* is compiled by the National Agricultural Library's Pesticides Information Center to facilitate national research efforts in all aspects of pest control. This bi-weekly index to the literature includes coverage of diseases, insects, nematodes, parasites, weeds and other pests affecting plants, animals, man, our natural resources and other values in man's environment. Special emphasis is given to the literature on toxicological, physiological and epidemiological aspects of pests and their control by chemical biological and integrated methods.

For broader coverage of literature on agriculture and related subjects, please consult the *Bibliography of Agriculture*, a monthly publication of the National Agricultural Library.

## FORMAT

The *Bulletin* is a categorized bibliography, with citations arranged alphabetically by author under the following major subjects:

- 10 Entomology
- 20 Crop Protection
- 30 Livestock Protection
- 40 Commodity Protection
- 50 Environmental Contamination
- 55 Residues
- 60 Toxicology
- 65 Plant Physiology & Biochemistry
- 70 Chemistry
- 80 Engineering
- 90 Industry

*Citations:* Each citation consists of an accession number assigned serially with the last two digits representing the Bulletin's issue year, i.e. 3286-67. The citation number (minus the year) is used in all indices. Following the accession number is the full title of the article; all personal authors; an abbreviated journal title; volume, issue and inclusive page numbers; date of publication; language abbreviation, if other than English; and the National Agricultural Library's call number. Subject descriptors, patent or grant numbers, bibliographer's notes, and abstracts or extracts may follow each citation when appropriate.

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The Herbicides Data File consists of reports on field tests conducted by the Crops Protection Research Branch, Agriculture Research Service. Each test record contains the following items of information:

- Compound Tested
- Company furnishing the compound
- Author or Investigator
- Test Sponsor
- Date
- Location
- Mode of Application
- Rates of Application
- Soil Types
- Carriers
- Crops or Weeds tested with phytotoxicity ratings
- Associated documentation

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### ACKNOWLEDGMENT

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## ENTOMOLOGY

16974-68

TO THE METHODS OF STUDYING THE ENVIRONMENTAL TEMPERATURE OF THE TICK *IXODES RICINUS* L.

M Daniel V Cerny  
*Folia Parasitol* 14(2):177-183  
1967 436.8 C33

Environment, Insect ecology, Insect vectors, *Ixodes ricinus*, *Ixodides*, Microclimate, Temperature.

16975-68

VECTOR CONTROL PROGRAMS IN COLORADO.

T Davis Jr  
*Utah Mosquito Abatement Ass Proc 18-19 ANNU. MEETING*:33-34  
1966 420 UT1

Agricultural policies, *Culex tarsalis*, *Gambusia affinis*, Insect control, Insect vectors, Research.

16976-68

SOME PROBLEMS CONNECTED WITH THE USE OF LIGHT TRAPS.

D J DeJong  
*Entomophago Mem Hors Ser* 3:25-32 REF  
1967 421 EN835M

Biology, Ecology, Hymenoptera, Insect diseases, Insect traps, Lepidoptera, Light traps, Trichoptera. Germany summary

16977-68

A COMPARISON OF ANIMAL- AND DRY-ICE-BAITED TRAPS FOR THE COLLECTION OF TABANIDS.

R Everett J L Lancaster  
*J Econ Entomol* 61(3):863-864  
Jun 1968 421 J822

Animals, Attractants, Baits, Dry ice, Equipment, Insect collecting equipment, Insect traps, Tabanidae, Temperature, Time, Weather.

16978-68

OBSERVATIONS OVER RESTRAINING THE STINK BUG (*PERILLUS BIOCULATUS* (FABR.)) (PENTATOMIDAE) FACING ITS PREY LEPIDOTARSA DECEMLINEATA (SAY) (CHRYSOMELIDAE). (GER)

J M Franz  
*Z Pflanzkrankh (pflanzenpathol) Pflanzenschutz* 74(1):1-13  
Jan 1967 464.8 Z3

Larvae, Lepidoptera decemlineata, Natural control (insects), Pentatomidae, *Perillus bioculatus*, Predaceous insects, Research. English summary

16979-68

A BRIEF REVIEW OF THE PRINCIPLES OF LIGHT TRAP DESIGN WITH A DESCRIPTION OF AN EFFICIENT TRAP FOR COLLECTING NOCTUID MOTHS.

D F Hardwick  
*Lepidopterists Soc J* 22(2):65-75 REF  
31 May 1968 421 L554

Insect collecting equipment, Insect traps, Light traps, Moths, Noctuidae.

16980-68

COLLECTING PUPAE OF THE FALL ARMYWORM FROM REARING CONTAINERS.

E A Harrell W W Hare R L Burton  
*J Econ Entomol* 61(3):873-876  
Jun 1968 421 J822

Equipment, Insect collecting equipment, Insect rearing, Methodology, Pupae, Spodoptera frugiperda.

16981-68

INDIVIDUAL EGGING DEVICE FOR TEPHRITID FLIES.

R A Hart R Y Miyabara  
*J Econ Entomol* 61(3):881  
Jun 1968 421 J822

*Ceratitis capitata*, *Dacus cucurbitae*, *Dacus dorsalis*, Equipment, Insect eggs, Oviposition, Temperature, Tephritidae, Time.

16982-68

SMALL CAGES FOR OBSERVING LEAF LICE. (GE)

A Hein  
*Z Pflanzkrankh (pflanzenpathol) Pflanzenschutz* 75(3):160-161  
Mar 1968 464.8 Z3  
Anoplura, Insect cages, Leaves, Research.

16983-68

A FURTHER NOTE ON SAMPLE SIZE FOR CHI-SQUARE TEST: THE RXC TABLE.

W R Holt  
*J Econ Entomol* 61(3):853-854  
Jun 1968 421 J822  
Entomology, Mathematics, Tables (data).

16984-68

SOME PARAMETERS IN THE ROLE OF ENEMIES IN THE NATURAL CONTROL OF INSECT ABUNDANCE.

C B Huffaker C E Kennett B Matsumoto E G White  
*Roy Entomol Soc London Symp* 4:59-75 REF  
1968 420 R81

Correlation, Ecology, Environment, Insect control, Insects, Natural control (insects), Parameters, Parasitism, Population statistics.

16985-68

EXPERIMENTS ON SIMULTANEOUS INFECTIONS OF THE COMMON COCKCHAFER, *MELOLONTHA MELOLONTHA*.

B Hurlin P Oxbert  
*J Invertebrate Pathol* 11(2):203-213 REF  
Aug 1968 421 J826

*Bacillus popilliac*, Bacteria, Insect diseases, Laboratories, Larvae, *Melolontha melolontha*, Microorganisms, Mortality, Temperature.

16986-68

EIGHTH SEMINAR ON TRYPANOSOMIASIS, ABSTRACT OF PAPERS.

W E Kershaw  
*Soc Trop Med Hyg Trans* 62(1):120-140  
1968 448.9 R813

Antigens, Biochemistry, Chemical control (insects), Digestion, Drug therapy, Glossina, Immunology, Insect cultures, Insect ecology, Insect vectors, Myocarditis, Reproduction, Research, Trypanosomiasis.

16987-68

CONTROLLED MATING, KARYOLOGY, MORPHOLOGY, AND SEX-RATIO IN THE DENDROCTONOS PONDEROSAE COMPLEX.

G N Lanier D L Wood  
*Entomol Soc Amer Ann* 61(2):517-526 REF  
15 Mar 1968 420 EN82

*Dendroctonus jeffreyi*, *Dendroctonus monticolae*, *Dendroctonus ponderosae*, Frequency distribution, Insect genetics, Mitosis, Morphology, *Pinus ponderosa*, Sex behavior.

16988-68

RADIATION-INDUCED STERILIZATION, IN: KILGORE, W. W. AND DOUTT, R. L., PEST CONTROL; BIOLOGICAL, PHYSICAL, AND SELECTED CHEMICAL METHODS. SB950.0K5.

L E LaChance C H Schmidt R C Bushland  
147-196 REF NEW YORK, ACADEMIC PRESS  
1967

*Cochliomyia hominivorax*, Pest control, Radiation, Research, Sterilization.

16989-68

WATERFOWL INTERESTS IN RELATION TO VECTOR CONTROL PROGRAMS.

J B Low  
*Utah Mosquito Abatement Ass Proc 18-19 ANNU. MEETING*:25-30 REF  
1966 420 UT1

Agricultural outlook, Aquatic birds, Chemical control (insects), Culicidae, Insect control, Pesticides, Water, Wildlife management.

16990-68

URBAN MOSQUITO CONTROL IN LOS ANGELES COUNTY.

G C McFarland  
*Utah Mosquito Abatement Ass Proc 18-19 ANNU. MEETING*:35-36  
1966 420 UT1  
Agricultural outlook, Breeding, Crop yields, *Culex quinquefasciatus*, Insect control, Weather.

16991-68

A DIGESTIVE DISTURBANCE IN GLOSSINA.

A R Mews  
*Roy Soc Trop Med Hyg Trans* 62(1):125-126  
1968 448.9 R813  
Blood coagulation, Digestion, Feeding, Glossina morsitans, Guinea pigs, Insect cages, Insect cultures, Insect diseases, Salivary glands (insects).

16992-68

A METHOD OF COLLECTING PLANTHOPPERS AND LEAFHOPPERS IN THE FIELD IN WINTER. TRANSL. 16921.

H Santa T Nambu  
4 P.  
Cicadellidae, Hibernation, Insects, Larvae, Physiology, Potassium cyanate, Research, Sampling (statistics), Translation from Kanto-Tosan Plant Protect. Soc. Proc. 8:42 translated by Kenji Nishimura

16993-68

A MECHANISM OF RESISTANCE TO ORGANOPHOSPHORUS ACARICIDES IN A STRAIN OF THE CATTLE TICK *BOOPHILUS MICROPLUS*.

C A Schuntner W J Roulston H J Schnitzlering  
*Australian J Biol Sci* 21(1):97-109 REF  
Feb 1968 442.8 AU72

Acaricides, *Boophilus annulatus microplus*, Enzymes, Immunity, Immunochimistry, Organic compounds, Parasitology, Phosphorus.

16994-68

A RESISTANCE MECHANISM IN ORGANOPHOSPHORUS-RESISTANT STRAINS OF SHEEP BLOWFLY (*LUCILIA CUPRINA*).

C A Schuntner W J Roulston  
*Australian J Biol Sci* 21(1):173-176 REF  
Feb 1968 442.8 AU72

Acetylcholinesterases, Biochemistry, Chemical control (insects), Immunology, Insecticide resistant insects, *Lucilia cuprina*, Organophosphorus.

16995-68

RADIOACTIVE STUDIES ON THE FEEDING OF LARVAE, NYMPHS, AND ADULTS OF THE CATTLE TICK, *BOOPHILUS MICROPLUS* (CANESTRINI).

G W Seifert P H Springell J Tatchell  
*Parasitology* 58(2):415-430 REF  
May 1968 448.8 P21

Blood, *Boophilus microplus*, Cattle, Erythrocytes, Injections, Insect behavior, Larvae, Nymphs, Radioactivity.

16996-68

THE ROLE OF COLLEMBOLA (APTERYGOTA) IN THE NUTRITIONAL SYSTEM OF TERRESTRIAL ENVIRONMENT. (GER)

H R Simon  
*Z Pflanzkrankh (pflanzenpathol) Pflanzenschutz* 74(6):354-366 REF  
Jun 1967 464.8 Z3

Collembola, Ecology, Environment, Insect biology, Insect nutrition, Predaceous insects.

16997-68

INSECT ABUNDANCE.

T R E Southwood  
*Roy Entomol Soc London Symp* 4,160P REF  
1968 420 R81

Environment, Insect control, Insect dissemination, Insect population, Insects, Research, Symposia.

16998-68  
MARKING TOBACCO HORNWORM MOTHS FOR NIGHT RECOVERY WITH A BLACKLIGHT LAMP.  
P A Stewart J J Lam

*J Econ Entomol* 61(3):864-865

Jun 1968 421 J822

Equipment, Infrared rays, Insect collecting equipment, Insect pests, Labeling, Lamps, Light, *Manduca sexta*, Tobacco.

16999-68

A RACK FOR HOLDING MALE GYPSY MOTHS DURING LABORATORY BIOASSAYS OF AIRBORNE ATTRACTANTS.

R M Waters M Jacobson

*J Econ Entomol* 61(3):873

Jun 1968 421 J822

Attractants, Biological assay, Equipment, Experimental insects, Insect collecting equipment, *Porthetria dispar*, Research.

17000-68

ABOUT THE INFLUENCE OF WEATHER ON APPLE-LEAF MOTHS FROM THE TIME OF FIRST APPEARANCE TO THAT OF FREQUENCY. (GE)

T Wildboltz

*Entomophaga Mem Hirs Ser* 3:71

1967 421 EN835M

Apples, *Carposapsa pomonella*, Insect behavior, Insect control, Larvae, Leaves, Weather.

## SYSTEMATICS

17001-68

THE CRANE FLIES OF CALIFORNIA.

C P Alexander

*Calif Insect Surv Bull* 08(0):1-269 MAPS, REF

27 Nov 1967 420 C12

Insect behavior, Insect taxonomy, Tipulidae, Zoogeography.

17002-68

A TECHNIQUE FOR REARING CHORISTONEURA PINUS ON ARTIFICIAL DIET.

D C Allen F B Knight J L Foltz

*Entomol Soc Amer Ann* 61(2):362-364

15 Mar 1968 420 EN82

Choristoneura pinus, Experimental insects, Insect nutrition, Insect rearing.

17003-68

NEW ORIBATIDS (ACARI) FROM VIETNAM. (GE)

J Balogh S Mahunka

*Acta Zool (budapest)* 13(1-2):39-74 REF

1967 410 AC85

Acarina, Insect taxonomy, Oribatei, Russian summary

17004-68

NEW ORBATIDS (ACARI) FROM NEW GUINEA.

J Balogh

*Acta Zool (budapest)* 14(3-4):259-285

29 Jun 1968 410 AC85

Insect taxonomy, Oribatei, Russian summary

17005-68

THE SCIENTIFIC RESULTS OF THE HUNGARIAN SOIL ZOOLOGICAL EXPEDITIONS TO SOUTH AMERICA. 7. ARACHNOIDEA. DESCRIPTION OF BRAZILIAN SPIDERS OF THE FAMILY SYMPHYTOGNATHIDAE.

J Balogh I Loksa

*Acta Zool (budapest)* 14(3-4):287-294

29 Jun 1968 410 AC85

Insect taxonomy, Spiders, Russian summary

17006-68

PSEUDOSCORPIONS FROM CONTINENTAL SOUTH EAST ASIA. (GE)

M Von Beier

*Pacific Insects* 9(2):341-369 REF

20 Jun 1967 421 P11

Cheloneitha, Insect taxonomy, English summary

Abstract

17007-68

CHIRONOMIDEN LARVA AND PUPAE FROM THE HAMORI LAKE. (GE)

A Berczik

*Acta Zool (budapest)* 13(1-2):75-82 MAP, REF

1967 410 AC85

Aquatic insects, Chironomidae, Insect taxonomy, Larvae, Pupae, Russian summary

17008-68

LIST OF NEW AMPHIPYRINAE FROM FRENCH EQUATORIAL AFRICA WITH NOTES ON SYNONYMIES (LEPIDOPTERA: NOCTUIDAE). (IT)

E Berio

*Soc Entomol Ital Boll* 96(1-2):31-34

20 Feb 1966 420 IT1

Insect taxonomy, Noctuidae.

17009-68

THE PTEROPHORIDAE OF IRAN. (LEP.). (FR)

L Biget

*Arkiv Zool* 20(3-4):243-251

24 Jun 1968 410.9 SV22

Insect taxonomy, Pterophoridae, Zoogeography, French summary

17010-68

REVISION OF THE TRIBE CHALEPINI OF AMERICA NORTH OF MEXICO. 1. GENUS XENOCHALEPUS WEISE. (COLEOPTERA: CHRYSOMELIDAE).

J G Butte

*Coleopt Bull* 22(2):45-62 MAP REF

Jun 1968 421 C674

Chrysomelidae, Insect taxonomy, Nearctic Region, *Xenochalepus*, Zoogeography.

17011-68

SIX NEW SPECIES OF MEMBRACIDAE (HEMIPTERA: HOMOPTERA) FROM SOUTH AFRICA.

A L Capener

*Entomol Soc Southern Afr J* 31(1):197-207

Mar 1968 420 EN86

Homoptera, Insect identification, Insect taxonomy, Membracidae, The six new species are: *Oxyrbachis hoffmanni*, *Tiberianus platoni*, *Distantobelus hibernus*, *Distantobelus natalensis*, *Distantobelus electus*, *Distantobelus comatus*.

17012-68

A MONOGRAPH OF THE FAMILY HETERO CERIDAE (COLEOPTERA) OF THE NOTOGENEAN REGION.

R Charpentier

*Arkiv Zool* 20(3-4):205-241 MAP REF

24 Jun 1968 410.9 SV22

Heteroceridae, Insect taxonomy, Zoogeography.

Abstract

17013-68

SECOND CONTRIBUTION TO THE KNOWLEDGE OF THE AFRICAN COCCOIDEA (HOMOPTERA).

G DeLotto

*Entomol Soc Southern Afr J* 31(1):83-86

Mar 1968 420 EN86

Coccoidea, Entomology, Homoptera, Insect identification, Insect taxonomy.

17014-68

THE SARCOPHAGIDAE OF BARRO COLORADO ISLAND, PANAMA (DIPTERA).

H R Dodge

*Entomol Soc Amer Ann* 61(2):421-450 REF

15 Mar 1968 420 EN82

Diptera, Insect taxonomy, Sarcophagidae.

17015-68

COMPLETION OF MY MONOGRAPH OF THE DYNASTINAE: CYCLOCEPHALINI (COLEOPTERA). (GE)

S Endrodi

*Acta Zool (budapest)* 13(1-2):83-91

1967 410 AC85

Coleoptera, Dynastinae, Insect taxonomy, Nitidulidae, Russian summary

17016-68

NOTES ON NEOTROPICAL TABANIDAE (DIPTERA). X. THE SPECIES DESCRIBED BY J. R. SCHINER AND OTHERS.

G B Fairchild

*Pacific Insects* 9(2):243-256 REF

20 Jun 1967 421 P11

Insect taxonomy, Neotropical Region, Tabanidae.

Abstract

17017-68

DYNASTINAE OF THE NATURHISTORISKA RIKSMUSEET, STOCKHOLM.

M C Ferreira

*Arkiv Zool* 18(5):413-435

1967 410.9 SV22

Dynastinae, Insect taxonomy.

17018-68

A NEW SPECIES OF METAXAGLAEA. (LEPIDOPTERA, NOCTUIDAE, CUCULIINAE).

J G Franclemont

*Entomol News (philadelphia)* 79(3):57-63

Mar 1968 421 EN88

Insect taxonomy, Metaxaglaea semitaria, Noctuidae, Compared with *M. viatica*, with which it has been confused.

17019-68

A TAXONOMIC REVISION OF THE GENUS ASTEROMYIA (DIPTERA: CECIDOMYIIDAE).

R J Gagne

*Diss Abstr Sect B* 28(9):3738B

Mar 1968 Z5055.U49D53

Asteromyia, Cecidomyiidae, Diptera, Taxonomy.

17020-68

ON A NEW SPECIES OF NEUROPTERA (FAMILY OSMYLIDAE) FROM INDIA.

S K Ghosh S Sen

*Zool Anz* 180(1-2):107-109

Jan 1968 410 Z7

Insect taxonomy, Neuroptera.

17021-68

THREE TINEID COLLECTIONS (LEPIDOPTERA) FROM AFRICA. (GE)

L A Gozmany

*Acta Zool (budapest)* 13(1-2):93-124

1967 410 AC85

Ethiopian Region, Insect taxonomy, Tineidae, Russian summary

17022-68

CHRYSOMELID BEETLES FROM THE PAPUAN SUBREGION, 4 (EUMOLPINAE, 2).

J L Gressitt

*Pacific Insects* 9(2):295-340

20 Jun 1967 421 P11

Cacao, Chrysomelidae, Insect pests, Insect taxonomy, Plant injuries.

Abstract

17023-68

INDIAN SPECIES OF LISTROGNATHUS TSCHEK (HYMENOPTERA: ICHNEUMONIDAE).

V K Gupta M K Kamath

*Pacific Insects* 9(2):369-397 REF

20 Jun 1967 421 P11

Ichneumonidae, India, Insect taxonomy.

Abstract

17024-68

BIOLOGY AND NATURAL CONTROL OF THE WHITE-PINE WEEVIL IN VIRGINIA.

D M Harman H M Kulman

*Entomol Soc Amer Ann* 61(2):280-285 REF

15 Mar 1968 420 EN82



- Insect hiology, Natural control (insects), *Pinus strobus*, *Pissodes strobi*.
- 17025-68**  
INFRARED AERIAL COLOR PHOTOGRAPHY FOR DETECTION OF POPULATIONS OF BROWN SOFT SCALE IN CITRUS GROVES.  
W G Hart V I Myers  
*J Econ Entomol* 61(3):617-624  
Jun 1968 421 J822  
Aerial photography, Citrus, *Coccus hesperidum*, Color, Infrared photography, Leaves, Population, Surveys.
- 17026-68**  
FRASS OF SOME WOOD-BORING INSECTS IN LIVING OAK (COLEOPTERA: CERAMBYCIDAE; LEPIDOPTERA: COSSIDAE AND AGERIIDAE).  
C J Hay  
*Entomol Soc Amer Ann* 61(2):255-258 REF  
15 Mar 1968 420 EN82  
Aegeriidae, Cerambycidae, Coleoptera, Cossidac, Frass, Insect control, Lepidoptera, Quercus, Wood-destroying insects.
- 17027-68**  
SOME PULVINARIA SPECIES (HOMOPTERA: COCCIDAE) OF THE ETHIOPIAN REGION.  
C J Hodgson  
*Entomol Soc Southern Afr J* 30(2):198-211  
30 Sep 1967 420 EN86  
Coccidae, Homoptera, Insect identification, Insect taxonomy, Pulvinaria.
- 17028-68**  
THE SUBGENUS PERSICARGAS (IXODOIDEA, ARGASIDAE, ARGAS). 4. ARGAS (P.) ROBERTSI, NEW SPECIES, A PARASITE OF AUSTRALIAN FOWL, AND KEYS TO AUSTRALIAN ARGASID SPECIES.  
H Hoogstraal M N Kaiser G M Kohls  
*Entomol Soc Amer Ann* 61(2):535-539 REF  
15 Mar 1968 420 EN82  
Argas persicus, Argas robertsi, Insect taxonomy, Parasitic insects.
- 17029-68**  
A MIGRATION OF VANESSA CARDUI (NYMPHALIDAE) IN OHIO.  
L A Hoying  
*Lepidopterists Soc J* 22(2):118-119  
31 May 1968 421 L554  
Insect migration, Nymphalidae, *Vanessa cardui*, Zoogeography.
- 17030-68**  
MEGASTIGMUS SPP. (HYMENOPTERA: TORYMIDAE) ASSOCIATED WITH THE SEEDS OF PINUS SPP.  
N W Hussey  
*Entomol Mon Mag* 103(1238-1240):168  
Jul 1967 421 EN86  
Chalcididae, Insect ecology, Insect identification, Megastigmus, *Pinus contorta*, *Pinus ponderosa*, *Pinus strobus*, Radiography, Seeds.
- 17031-68**  
SEASONAL ABUNDANCE AND DISTRIBUTION OF SUGARCANE STEM BORERS IN NIGERIA.  
M L Jerath  
*J Econ Entomol* 61(3):593-596  
Jun 1968 421 J822  
Chiloptera, Eldana saccharina, Insect dissemination, Insect ecology, Population, *Sesamia nonagriodes* hotanephaga, Sugarcane, Temperature, Weather.
- 17032-68**  
SEASONAL FLUCTUATIONS IN ABUNDANCE OF VARIOUS RICE STEM BORERS ON LUZON ISLAND, PHILIPPINES.  
M A Kamran E Raros  
*J Econ Entomol* 61(3):650-656 MAP  
Jun 1968 421 J822  
Chilo suppressalis, Chiloptera polychrysa, Insect pests, Population, Rice, *Sesamia inferens*, Temperature, *Tryporyza incertulas*, *Tryporyza innotata*, Weather.
- 17033-68**  
CONCLUSION OF THE ZOOLOGICAL INVESTIGATIONS OF DR. Z. KASZAB IN MONGOLIA. 168 TENEBRIONIDAE (COLEOPTERA). (GE )  
Z Kaszab  
*Acta Zool (budapest)* 14(3-4):339-397 MAP REF  
29 Jun 1968 410 AC85  
Insect taxonomy, Tenebrionidae, Zoogeography, Russian summary  
This is a report of an extensive taxonomic survey of Tenebrionidae in Mongolia by Z. Kaszab.
- 17034-68**  
DATA TO THE KNOWLEDGE OF CALLOGONIA VIRGO TR. AND THE DESCRIPTION OF A NEW SUBSPECIES (LEPIDOPTERA: NOCTUIDAE).  
L Kovacs  
*Acta Zool (budapest)* 14(3-4):399-405 REF  
29 Jun 1968 410 AC85  
Insect taxonomy, Light traps, Noctuidae, Zoogeography, Russian summary
- 17035-68**  
BIOSYSTEMATIC, CYTOLOGICAL, AND SEX RATIO STUDIES OF CLOSELY RELATED BARK BEETLES (COLEOPTERA: SCOLYTIDAE).  
G N Lanier  
*Diss Abstr Sect B* 28(10):6167B  
Apr 1968 Z5055.U49D53  
Coleoptera, Cytology, Insect genetics, Insect taxonomy, Polymorphism, Scolytidae, Sex.
- 17036-68**  
SYSTEMATIC STUDIES OF SOME PSEUDOSCORPIONS (ARACHNIDA: PSEUDOSCORPIONIDA) FROM THE SOUTHEASTERN UNITED STATES.  
J E Lawson  
*Diss Abstr Sect B* 28(10):4351B  
Apr 1968 Z5055.U49D53  
Arachnida, Chaetotaxy, Illustrations, Insect hiology, Insect identification, Kleptochthonius crosbyi, Kleptochthonius multispinosus, Leaves, Methodology, Microbisium confusum, Research.
- 17037-68**  
NATURAL REGULATION AND ARTIFICIAL CONTROL OF BROWN LOCUST NUMBERS.  
A Lea  
*Entomol Soc Southern Afr J* 31(1):97-111 REF  
Mar 1968 420 EN86  
Acrididae, Biological control (insects), Chemical control (insects), Entomology, Epidemiology, Experimental insects, Insect outbreaks, Population, Weather.
- 17038-68**  
COSMOPOLITAN AND PANTROPICAL SPECIES OF THERIDIID SPIDERS (ARANEAE: THERIDIIDAE).  
H W Levi  
*Pacific Insects* 9(2):175-186  
20 Jun 1967 421 P11  
Insect taxonomy, Reviews, Spiders.  
Abstract
- 17039-68**  
REVIEW OF SOME RECENT RESEARCH ON ONCHOCERCA VECTORS.  
D J Lewis  
*Roy Soc Trop Med Hyg Trans* 62(1):19-21 REF  
1968 448.9 R813  
Chemical control (insects), Food, Insect dissemination, Insect flight, Insect migration, Insect physiology, Insect vectors, Onchocerciasis, Parasitic insects, Simuliidae, Taxonomy.
- 17040-68**  
PROBLEMS IN INSECT MORPHOLOGY. (JA )  
R Matsuda  
*Kontyu* 35(3):186-195  
Sep 1967 421 K833  
Entomology, Insect morphology, Insect taxonomy.
- 17041-68**  
ODONATA FROM VENETIA. (CONTRIBUTION TO THE KNOWLEDGE OF ODONATA). (IT )  
A Minelli  
*Soc Entomol Ital Mem* 45(0):111-134 REF  
1966 420 IT1M  
Insect taxonomy, Odonata, Zoogeography, Italian, German and French summaries
- 17042-68**  
RESULTS OF THE ZOOLOGICAL INVESTIGATION OF DR. Z. KASZAB IN MONGOLIA. 100 CHRYSIDIDAE (HYMENOPTERA). (GE )  
L Moczar  
*Acta Zool (budapest)* 13(1-2):183-190  
1967 410 AC85  
Chrysididae, Insect taxonomy, Russian summary
- 17043-68**  
CONCLUSIONS OF THE ZOOLOGICAL INVESTIGATIONS OF DR. Z. KASZAB IN MONGOLIA. 167. POMPILIDAE (HYMENOPTERA). (GE )  
L Moczar  
*Acta Zool (budapest)* 14(3-4):427-439 REF  
29 Jun 1968 410 AC85  
Insect taxonomy, Pompilidae, Russian summary
- 17044-68**  
REDESCRIPTION OF THE TYPE SPECIES OF THE PSEUDOSCORPION GENUS KEWOCHTHONIUS CHAMBERLIN.  
W B Muchmor  
*Entomol News (philadelphia)* 79(3):71-76 REF  
Mar 1968 421 EN88  
Chelonethida, Kewochthonius, Taxonomy.
- 17045-68**  
UTAH MOSQUITOES, THEIR PUBLISHED HISTORY: SUPPLEMENT II.  
L T Nielsen J H Linam  
*Utah Mosquito Abatement Ass Proc* 18-19 ANNU. MEETING:21-23  
1966 420 UT1  
Bibliography, Culicidae, Histology, Indexes.
- 17046-68**  
THE GENERA OF THE PALEARCTIC TORTRICIDAE. II THE SUBFAMILY OLETHREUTINAE. EIGHT PARTS AND CONCLUSION WITH A TOTAL INDEX OF ALL PARTS. (GER )  
N S Obratsov  
*Tijdschr Entomol* 111(1):1-48  
21 Jun 1968 421 T21  
Insect taxonomy, Palearctic Region, Tortricidae.  
Abstract
- 17047-68**  
RESULTS OF THE ZOOLOGICAL INVESTIGATION OF DR. Z. KASZAB IN MONGOLIA. 101. BRACONIDAE (HYMENOPTERA). 1. (ge )  
J Papp  
*Acta Zool (budapest)* 13(1-2):191-226 REF  
1967 410 AC85  
Braconidae, Insect taxonomy, Russian summary
- 17048-68**  
POMPILIDAE AND SPHECIDAE (HYMENOPTERA) FROM STRASSFURT (SACHSEN-ANHALT). (GE )  
F Parre  
*Entomol Z* 78(11):121-124  
01 Jun 1968 421 EN85  
Insect taxonomy, Pompilidae, Sphecidae, German summary
- 17049-68**  
THE PERIODICAL CICADA, BROOD. VII. (HOMOPTERA: CICADIDAE: MAGICICADA).  
L L Pechuman  
*Amer Entomol Soc Trans* 94(2):137-153 REF  
Jun 1968 420 P53  
Cicadidae, Homoptera, Insect taxonomy, Time, Zoogeography.

17050-68

## ADDENDA TO THE LIST OF THE BUTTERFLIES OF MICHIGAN.

O A Perkins

*Lepidopterists Soc J* 22(2):119-120

31 May 1968 421 L554

Butterflies, Insect dissemination, Insect names, Insect taxonomy, Zoogeography.

17051-68

## NEW NORTH AMERICAN TABANIDAE. XIX. FOUR NEW SPECIES FROM MEXICO, HONDURAS, AND ARIZONA.

C B Philip

*Entomol Soc Amer Ann* 61(2):380-383

15 Mar 1968 420 EN82

Insect taxonomy, Tabanidae.

17052-68

## MOLECULAR SIEVING OF HYDROPHILIC MOLECULES BY THE RECTAL INTIMA OF THE DESERT LOCUST (SCHISTOCERCA GREGARIA).

J E Phillips A A Dockrill

*J Exp Biol* 48(3):521-532 REF

Jun 1968 442.8 B77

Cuticle, Insect physiology, Molecules, Radioisotopes, Schistocerca gregaria.

17053-68

## THE TAXONOMIC GROUPING OF PALEARCTIC GNORIMOSCHEMA SPECIES (LEPIDOPTERA; GELECHIIDAE) INCLUDING A DESCRIPTION OF A NEW SPECIES. (GE)

D Povolny

*Arkiv Zool* 18(5):393-404

1967 410.9 SV22

Gelechiidae, Insect taxonomy, German summary

17054-68

## THE GENUS PSITTACOBROSUS (MALLOPHAGA: MENOPONIDAE) OF THE NEOTROPICAL PSITTACIFORMES.

R D Price J R Beer

*Entomol Soc Amer Ann* 61(2):261-276

15 Mar 1968 420 EN82

Insect taxonomy, Mallophaga, Menoponidae, Psittacobrosus.

17055-68

## ON HISTOPATHOLOGY AND HISTOCHEMISTRY OF INSECTICIDE-TREATED INSECTS. I. NON-SPECIFIC PHOSPHATASES IN THE MIDGUT AND CAECA OF PYRETHRINS TREATED PERIPLANETA AMERICANA L.

S C Saxfna J P Srivastava

*Pyrethrum Post* 9(3):9-13 REF

Apr 1968 421 P99

Histochemistry, Insect diseases, Insect histology, Insecticides, Periplaneta americana, Phosphatases, Pyrethrum, Research.

17056-68

## ALARM, DEFENSE, AND CONSTRUCTION BEHAVIOR RELATIONSHIPS IN TERMITES (ISOPTERA).

A M Stuart

*Science* 156(3778):1123-1125

27 May 1967 470 SC12

Insect behavior, Insect rearing, Nymphs, Research, Social insects, Termites.

17057-68

## BEDELLIA EHIKELLA SP. N. (LEPIDOPTERA: LITHOCOLLETIDAE).

J Szocs

*Acta Zool (budapest)* 13(1-2):231-236 REF

1967 410 AC85

Bedellia ehikella, Gracillariidae, Insect morphology, Leaf miners, Lepidoptera, Russian summary

17058-68

## LEPIDOPTERA FROM MOREA. A VAST CONTRIBUTION FOR FAUNA OF THE PELOPONNESUS (GREECE). (GE)

J Thurner

*Wien Entomol Ges Z* 52(1):5-23

15 Mar 1967 421 OS7

Indexing, Insect ecology, Insect taxonomy, Lepidoptera.

17059-68

## LEPIDOPTERA FROM MOREA. A VAST CONTRIBUTION FOR FAUNA OF THE PELOPONNESUS (GREECE). (GE)

J Thurner

*Wien Entomol Ges Z* 52(6):50-58 REF

01 Dec 1967 421 OS7

Indexing, Insect ecology, Insect taxonomy, Lepidoptera, Zoogeography.

17060-68

## REVISION OF THE WORLD SPECIES OF EUPHUMOSIA (DIPTERA: CALLIPHORIDAE).

R L Torgerson M T James

*Pacific Insects* 9(2):205-242

20 Jun 1967 421 P11

Calliphoridae, Insect taxonomy, Zoogeography.

Abstract

17061-68

## A DECADE OF INSECT POPULATION ECOLOGY IN JAPAN. (JA)

S Utida

*Kontyu* 35(3):196-204

Sep 1967 421 K833

Entomology, Insect dissemination, Insect ecology, Population statistics.

17062-68

## REVIEW OF SOUTH AMERICAN GENUS BELOPOEUS SCHOENHERR (COLEOPTERA, CURCULIONIDAE, RHYNCHOPHORINAE).

P Vaurie

*Coleopt Bull* 22(2):39-44

Jun 1968 421 C674

Curculionidae, Insect taxonomy, Neotropical Region.

17063-68

## PROBLEMS OF INSECT TAXONOMY WITH SPECIAL REFERENCE TO THE INTERNATIONAL CODE OF ZOOLOGICAL NOMENCLATURE. (JA)

C Watanabe

*Kontyu* 35(3):155-163

Sep 1967 421 K833

Entomology, Insect taxonomy, Nomenclature, Zoology.

17064-68

## THE ZOOLOGICAL RESULTS OF GY. TOPAL'S COLLECTINGS IN SOUTH ARGENTINA. 21. COLEOPTERA: ANTHICIDAE.

F G Werner

*Acta Zool (budapest)* 13(1-2):237-243

1967 410 AC85

Anthicidae, Insect taxonomy, Russian summary

17065-68

## THE PHYLOGENY AND ZOOGEOGRAPHY OF THE ENDEMIC GENERA OF THE HAWAIIAN PTEROMALIDAE (HYMENOPTERA: CHALCIDOIDEA).

C M Yoshimoto

*Pacific Insects* 9(2):197-203 REF

20 Jun 1967 421 P11

Insect evolution, Insect taxonomy, Pteromalidae, Zoogeography.

Abstract

## PHYSIOLOGY AND BIOCHEMISTRY

17066-68

## SELECTIVE INSECT CONTROL. SB931.0S4.

81 P. REF. MASSACHUSETTS, NIMROD

PRESS INCORPORATED

1966

Agricultural outlook, Biological control (insects), Insect control, Insect repellents, Integrated control (insects), Research, Sterilization.

17067-68

## THE REPRODUCTIVE BIOLOGY OF HIPPELATES COLLUSOR. III. EFFECT OF TEMPERATURE ON OOGENESIS.

T S Adams M S Mulla

*Entomol Soc Amer Ann* 61(2):368-372 REF

15 Mar 1968 420 EN82

Chloropidae, Hippelates collusor, Insect morphology, Metamorphosis, Oogenesis, Reproduction, Temperature.

17068-68

## VARIATION IN TOXICITY OF MALTHION WHEN APPLIED TO CERTAIN BODY REGIONS OF SCHISTOCERCA GREGARIA (FORSK.).

H Ahmed B G Gardiner

*Bull Entomol Res* 57(4):651-659 REF

Jun 1968 421 B87

Chemical control (insects), Insect metabolism, Insect physiology, Insecticides, Malathion, Schistocerca gregaria, Toxicology.

17069-68

## FINAL TECHNICAL REPORT ON THE PL. 480 PROJECT. SYSTEMATIC AND BIOLOGICAL STUDIES ON INDIAN THRIPS. QL503.0T50A5.

T N Ananthkrishman

42 P.

1968

Biology, Insect morphology, Research, Surveys, Thysanoptera, Zoogeography.

17070-68

## A COMPARISON OF THE TOXICITY OF SOME VARIETIES OF BACILLUS THURINGIENSIS BERLINER FOR SILKWORM LARVAE.

T A Angus J R Norris

*J Invertebrate Pathol* 11(2):289-295 REF

Aug 1968 421 J826

Bacillus thuringiensis, Bombyx mori, Culture media, Larvae, Mortality, Toxicology.

17071-68

## OBSERVATIONS ON OVIPOSITION AND LIFE HISTORY OF AN AQUATIC BUG, SPHAERODEMA RUSTICUM FABR. (HEMIPTERA).

J Bahadur

*Zool Pol* 18(1):107-115

1968 410 Z712

Aquatic insects, Hemiptera, Insect behavior, Insect morphology, Oviposition, Sphaerodema rusticum, English, Polish and Russian summaries

Abstract

17072-68

## INSECTICIDES IN DRY SUGAR BAITS AGAINST TWO STRAINS OF HOUSE FLIES.

D L Bailey G C LaBrecque D W Meifert P M Bishop

*J Econ Entomol* 61(3):743-747

Jun 1968 421 J822

Baits, Biochemistry, Chemical control (insects), Experimental insects, Immunity, Insect collecting equipment, Insect genetics, Insecticides, Musca domestica, Sugar, Trichlorfon.

17073-68

## MODE OF ACTION OF ORGANIC THIOCYANATES AS INSECTICIDES AND CARBAMATE SYNERGISTS.

N M S Bakry

*Diss Abstr Sect B* 28(10):3938B

Apr 1968 Z5055.U49D53

Benzyl cyanide, Biochemistry, Carbamates, Chromatography, Electrons, Insecticides, Metabolism, Musca domestica, Mushrooms, Organic compounds, Thiocyanates, Toxicology.

17074-68

## BIONOMIC NOTES ON THE HEXAPODOUS PARASITES OF ACROBASIS RUBRIFASCIELLA.

W V Balduf

*Entomol Soc Amer Ann* 61(2):463-476 REF

15 Mar 1968 420 EN82



Acrobasis ruhrifasciella, Caterpillars, Insect ecology.

**17075-68**

**THE LONGEVITY OF THE PARASITIC STAGES AND THE DYNAMICS OF EGG PRODUCTION OF THE NEMATODE SYNGAMUS TRACHEA (MONTAGU, 1811) IN CHICKEN AND TURKEYS.**

V Barus

*Folia Parasitol* 13(3):274-277

1966 436.8 C33

Animal diseases, Chickens, Longevity, Nematodes, Parasitism, Syngamus trachea, Turkey.

Abstract. Production of eggs by the female worm is in direct correlation with the female's growth and physiological aging.

**17076-68**

**DETERMINANTS OF ABUNDANCE IN A POPULATION OF THE QUEENSLAND FRUIT FLY.**

M A Bateman

*Roy Entomol Soc London Symp* 4:119-131 REF

1968 420 R81

Chemical control (insects), Dacus tryoni, Physiology, Research, Weather.

**17077-68**

**NUTRITION OF EUROPEAN CORN BORER, OSTRINIA NUBILALIS. VI. A LARVAL REARING MEDIUM WITHOUT CRUDE PLANT FRACTIONS.**

S D Beck G M Chippendale D E Swinton

*Entomol Soc Amer Ann* 61(2):459-462 REF

15 Mar 1968 420 EN82

Culture media, Insect nutrition, Insect rearing equipment, Larvae, Ostrinia nubilalis.

**17078-68**

**THE EFFECTS OF INTER-SPECIES COPULATION ON THE FECUNDITY AND FERTILITY OF TRIBOLIUM (COLEOPTERA, TENEBRIONIDAE).**

J F Belshe

*Diss Abstr Sect B* 28(9):3921B

Mar 1968 Z5055.U49D53

Coleoptera, Fertility, Insect genetics, Reproduction, Tenebrionidae, Tribolium castaneum, Tribolium confusum.

**17079-68**

**BIOLOGICAL STUDIES ON CHIRONOMIDS WITH EMPHASIS ON THE TEMPERATURE RELATIONS OF THE DEVELOPMENTAL STAGES.**

K D Bieber

*Diss Abstr Sect B* 28(10):4342B

Apr 1968 Z5055.U49D53

Chironomidae, Experimental insects, Insectology, Insect physiology, Insect rearing, Metamorphosis, Temperature. Species used were: Goeldichironomus holoprasinus, C. monochromus, Pentaneura pilosella, Tanyus gródhausi, and Micropsectra nigripilus

**17080-68**

**STERILIZATION OF THE AZUKI BEAN WEEVIL, CALLOSOBROCHUS CHINENSIS, BY METEPA AND HEMPA.**

A B Borkovec S Nagasawa H Shinohara

*J Econ Entomol* 61(3):695-698

Jun 1968 421 J822

Biochemistry, Biological assay, Callosobruchus chinensis, Chemical control (insects), Chemosterilants, Dipping, Dosage, Fumigation, Hempa, Insecticide application, Metepa, Oviposition.

**17081-68**

**COCKROACHES (PERIPLANETA AMERICANA (L.)) AS PREDATORS.**

J Bowden J Phipps

*Entomol Mon Mag* 103(1238-1240):175-176

Jul 1967 421 EN86

Beneficial insects, Blattidae, Insect behavior, Insect nutrition, Periplaneta americana, Predaceous insects.

**17082-68**

**PROPERTIES OF AN ACETYLCHOLINESTERASE FROM THE FACE FLY, MUSCA AUTUMNALIS.**

T A Bratkowski C O Knowles

*Entomol Soc Amer Ann* 61(2):397-402 REF

15 Mar 1968 420 EN82

Acetylcholinesterases, Biochemistry, Cattle, Esterases, Insect pests, Insect vectors, Musca autumnalis.

**17083-68**

**A CONVENIENT SYNTHESIS OF MIXED ISOMERS OF JUVENILE HORMONE.**

B H Braun M Jacobson M Schwarz P E Sonnet N Wakabayashi

*J Econ Entomol* 61(3):866-869

Jun 1968 421 J822

Biochemistry, Chemical reactions, Epoxy resins, Hormones, Hyalophora cecropia, Insect physiology, Isomerism, Metabolism, Tenebrio molitor.

**17084-68**

**LOCALIZATION OF NUCLEOLI OF TOW PERICARDIAL NERVES OF DICTYOPTERA, BLABERIDAE AND BLATTIDAE. (FR)**

P Brousse-Gaury

*Acad Sci Compt Rend Ser D Sci Nat*

266(19):1972-1975

06 May 1968 505 P21

Blaberidae, Blattidae, Cell nucleus, Dictyoptera, Insect physiology, Nervous system, Periplaneta americana.

**17085-68**

**CONTROL OF THE GREATER AND LESSER WAX MOTHS (GALLERIA MELLONELLA AND ACHROIA GRISELLA) WITH BACILLUS THURINGIENSIS.**

H D Burges L Bailey

*J Invertebrate Pathol* 11(2):184-195 REF

Aug 1968 421 J826

Achroia grisella, Bacillus thuringiensis, Biological assay, Culture media, Galleria mellonella, Insect control, Laboratories, Lethal factors, Research.

**17086-68**

**INSECT PESTS OF COTTON. VII. EVALUATION STUDIES ON INSECTICIDES.**

D K Butani

*Indian J Entomol* 29(4):360-369 REF

Dec 1967 420 IN23

Agricultural economics, Cotton, Insect control, Insect pests, Insecticides.

**17087-68**

**SUGAR FOR THE SURVIVAL OF LYGUS HESPERUS ON ALFALFA.**

G D Butler

*J Econ Entomol* 61(3):854-855

Jun 1968 421 J822

Alfalfa, Culture media, Food, Greenhouse culture, Insect pests, Lygus hesperus, Nymphs, Research, Sugar, Therapeutics.

**17088-68**

**EFFECT OF RELATIVE HUMIDITY ON THE DEVELOPMENTAL STAGES OF TRIBOLIUM CASTANEUM (COLEOPTERA: TENEBRIONIDAE).**

H S Chaudhry R P D Kapoor

*Entomol Soc Amer Ann* 61(2):290-292 REF

15 Mar 1968 420 EN82

Coleoptera, Humidity, Insect metabolism, Metamorphosis, Temperature, Tenebrionidae, Tribolium castaneum.

**17089-68**

**BIOASSAY TECHNIQUE FOR INSECT VIRUSES.**

A R Chauthani

*J Invertebrate Pathol* 11(2):242-245

Aug 1968 421 J826

Granuloses, Heliothis, Polyhedroses, Prodenia ornithogalli, Spodoptera exigua, Trichoplusia ni, Virus diseases (insects).

**17090-68**

**THE EFFECT OF A LOW PROTEIN DIET AND A GLUCOSE AND FILTER PAPER DIET ON THE COURSE OF INFECTION OF NIPPOS-TRONGYLUS BRASILIENSIS.**

K R Clarke

*Parasitology* 58(2):325-339 REF

May 1968 448.8 P21

Acanthocephala, Diet, Filter paper, Glucose, Larvae, Nippostrongylus brasiliensis, Parasitology, Proteins, Rats.

**17091-68**

**FIELD EVALUATION OF INSECTICIDES FOR CONTROL OF THE ALFALFA WEEVIL IN MARYLAND, 1962-66.**

R M Coan V E Adler C C Blickenstaff A L

Steinhauer

*World Health Organ WHO/VECTOR Contr*

33(127):20 P.

Mar 1968 A420 R31

Alfalfa, Chemical control (insects), Hypera postica, Insecticides, Pesticide application, Time.

**17092-68**

**SOME EFFECTS OF PHOTOPERIOD, TEMPERATURE, AND FOOD ON THE INDUCTION OF DIAPAUSE IN THE BOLL WEEVIL.**

P P Cogh M H Bass

*J Econ Entomol* 61(3):624-625

Jun 1968 421 J822

Anthonomus grandis, Diapause, Experimental insects, Food, Insect physiology, Photoperiodism, Temperature.

**17093-68**

**STUDY OF THE BEHAVIOR OF TWO BACTERIAL PATHOGENS (PSEUDOMONAS PHASEOLICOLA; ERWINIA CAROTOVORA F.SP. PHYTOPHTHORA) IN SOIL TREATED BY STEAM. (FR)**

A Coleno F Rapiilly

*Phytophytopharm* 16(3):157-164 REF

Sep 1967 464.8 P564

Antibiotics, Bacteria, Erwinia carotovora, Pseudomonas phaseolicola, Soil testing, Steam.

**17094-68**

**PROGRESS IN MOSQUITO CONTROL IN UTAH COUNTY.**

T Davis

*Utah Mosquito Abatement Ass Proc* 18-19 ANNU.

MEETING:15-16

1966 420 UT1

Aedes dorsalis, Aerial spraying, Breeding, Chemical control (insects), Insect control.

**17095-68**

**THE EFFECT OF TEMPERATURE AND MOISTURE ON THE DEVELOPMENT OF FANNIA CANICULARIS (L.) AND FANNIA FEMORALIS (STEIN) (DIPTERA: MUSCIDAE).**

A S Deal

*Diss Abstr Sect B* 28(9):3737B

Mar 1968 Z5055.U49D53

Diptera, Fannia canicularis, Fannia femoralis, Humidity, Insect eggs, Insect morphology, Insect temperature, Muscidae.

**17096-68**

**SAMPLING METHODS FOR RED SPIDER MITES.**

G H L Dicker

*Entomophaga Mem Hors Ser* 3:57-58

1967 421 EN835M

Eggs, Larvae, Mites, Pigmentation, Tetranychidae, Tetranychus urticae.

**17097-68**

**THE SPIDERS OF MISSISSIPPI.**

P R Dorris

*Diss Abstr Sect B* 28(9):3586B

Mar 1968 Z5055.U49D53

Habitats, Insect ecology, Insect taxonomy, Spiders, Zoogeography. The families of spiders with the largest number of species in Mississippi are: Salticidae, Araneidae, Theridiidae, Lycosidae, and Thomisidae.

17098-68

**17098-68**  
EFFECTS OF THE CHEMOSTERILANT HEMPA ON GYPSY MOTH METAMORPHOSIS.  
J E Downey  
*J Econ Entomol* 61(3):846  
Jun 1968 421 J822  
Biochemistry, Chemical control (insects), Chemosterilants, Diet, Experimental insects, Hempa, Insect rearing, Metamorphosis, Porthetria dispar.

17099-68

**17099-68**  
ONCHOCERCA-SIMULIUM COMPLEXES. V. THE INTAKE AND SUBSEQUENT FATE OF MICROFILARIAE OF A GUATEMALAN STRAIN OF ONCHOCERCA VOLVULUS IN FOREST AND SUDAN-SAVANNA FORMS OF WEST AFRICAN SIMULIUM DAMNOSUM.  
B O L Duke P J Moore J R De Leon  
*Ann Trop Med Parasitol* 61(3):332-337  
Sep 1967 448.9 L75A  
Biological transport, Filariasis, Forest insects, Immunization, Larvac, Monkeys, Onchocerca volvulus, Parasitism, Simulium damnosum.

17100-68

**17100-68**  
STUDIES ON THE MORPHOLOGY AND BIOLOGY OF LECANIUM FLETCHERI CKLL. (HOMOPTERA, COCCOIDEA) AND RELATED SPECIES.  
A Dziedzicka  
*Zool Pol* 18(1):125-165 REF  
1968 410 Z712  
Coccoidea, Insect biology, Insect diseases, Insect morphology, Lecanium fletcheri, Parthenogenesis, Plant discuses, Zoogeography. Polish, Russian and English summaries

Abstract

17101-68

**17101-68**  
SOME ILLUSTRATIONS OF MICROSCULPTURE IN THE HYMENOPTERA.  
R D Eady  
*Roy Entomol Soc London Proc Ser A Gen Entomol* 43(4-6):66-72  
12 Jul 1968 420 L84PA  
Hymenoptera, Illustrations, Insect anatomy, Microscopy.

17102-68

**17102-68**  
THE INFLUENCE OF REPELLENCY ON THE EFFICACY OF BLATTICIDES. III. FIELD EXPERIMENTS WITH GERMAN COCKROACHES WITH NOTES ON THREE OTHER SPECIES.  
W Ebeling D A Reiersen R E Wagner  
*J Econ Entomol* 61(3):751-761 REF  
Jun 1968 421 J822

Biochemistry, Blattella germanica, Blatticides, Boric acid, Chemical control (insects), Diazinon, Dichlorvos, Dosage, Insect repellents, Insecticides, Spraying.

17103-68

**17103-68**  
INSECT OXIDASES AND DETOXICATION OF CARBAMATE INSECTICIDES.  
S A E S A El-Aziz  
*Diss Abstr Sect B* 28(10):4164B  
Apr 1968 Z5055.U49D53  
Aging, Biochemistry, Carbamates, Chemical control (insects), Cytochromes, Enzymes, Immunity, Insect nutrition, Insecticide application, Insecticides, Musca domestica, Oxidases, Phenolases, Sex, Toxicology. Insecticides used were: MIP, MPPC, Baygon, Mcsurof, and Zectran.

17104-68

**17104-68**  
ENDOCRINE CONTROL OF FEMALE RECEPTIVITY IN LEUCOPHAEA MADERAE (BLATTARIA).  
F Engelman R H Barth  
*Entomol Soc Amer Ann* 61(2):503-505 REF  
15 Mar 1968 420 EN82  
Corpora allata, Endocrine glands, Hormones, Insect behavior, Leucophaea maderae, Reproduction, Sex attractants.

17105-68

**17105-68**  
RESISTANCE PATTERNS AND FECUNDITY OF HOUSE FLIES (MUSCA DOMESTICA L.) SELECTED WITH DIAZINON, DIMETILAN, AND COMBINATIONS OF THE TWO INSECTICIDES.  
K J Ensing  
*Diss Abstr Sect B* 28(10):4165B-4166B  
Apr 1968 Z5055.U49D53  
Biochemistry, Biological assay, Chemical control (insects), Diazinon, Dimetilan, Fertility, Immunity, Insect eggs, Insecticide application, Insecticides, Musca domestica, Research.

17106-68

**17106-68**  
AN IMPROVED METHOD FOR EMBEDDING AND SECTIONING EGGS OF THE MIGRATORY GRASSHOPPER, MELANOPLUS SANGUINIPES FAB. (ORTHOPTERA: ACRIDIDAE).  
A B Ewen  
*Can J Zool* 46(5):1084-1084-1085  
Sep 1968 470 C16D  
Biochemistry, Equipment, Insect eggs, Insect migration, Melanoplus sanguinipes, Methodology, Ovulation, Tissues.

17107-68

**17107-68**  
MITOTIC ACTIVITY OF THE CIRCULATING HEMOCYTES OF THE LARGE MILKWEED BUG, ONCOPELTUS FASCIATUS.  
D Feir E McClain  
*Entomol Soc Amer Ann* 61(2):413-416  
15 Mar 1968 420 EN82  
Blood cells, Mitosis, Oncopeltus fasciatus.

17108-68

**17108-68**  
INDUCED CHANGES IN THE MITOTIC ACTIVITY OF HEMOCYTES OF THE LARGE MILKWEED BUG, ONCOPELTUS FASCIATUS.  
D Feir E McClain  
*Entomol Soc Amer Ann* 61(2):416-421 REF  
15 Mar 1968 420 EN82  
Blood cells, Experimental insects, Mitosis, Oncopeltus fasciatus.

17109-68

**17109-68**  
THE CONTROL OF POPULATIONS THROUGH LIMITATION OF HABITAT DISTRIBUTION AS EXEMPLIFIED BY TSETSE FLIES.  
J Ford  
*Roy Entomol Soc London Symp* 4:109-118 REF  
1968 420 R81  
Ecology, Environment, Geography, Glossina, Insect control, Insect flight, Insect migration, Population statistics.

17110-68

**17110-68**  
THE PROTEIN COMPONENTS OF A LATENT PHENOXIDASE SYSTEM IN THE PREPUAE OF HOUSEFLY.  
M Funatsu K Hayashi G Namihira  
*Agr Biol Chem* 31(11):1379-1380  
Nov 1967 385 AG8B  
Enzymes, Larvac, Metamorphosis, Musca domestica, Phenolases, Proteins, Pupae.

17111-68

**17111-68**  
CHOLINE ACTIVITY DURING THE DEVELOPMENT OF DROSOPHILA MELANOGASTER.  
B W Geer G F Vovis M A Yund  
*Physiol Zool* 41(3):280-292 REF  
Jul 1968 410 P56  
Choline, Drosophila melanogaster, Growth factors, Insect physiology, Larvae, Metabolism.  
Abstract

17112-68

**17112-68**  
SEXUAL COMPETITIVENESS OF MALE BOLL WEEVILS STERILIZED WITH APHOLATE UNAFFECTED BY DIET.  
F R Gilliland T B Davich  
*J Econ Entomol* 61(3):852-853  
Jun 1968 421 J822  
Anthonomus grandis, Apholate, Biochemistry, Chemosterilants, Diet, Insect control, Insect eggs, Sex.

17113-68

**17113-68**  
LOW VOLUME AIRPLANE SPRAYS FOR THE CONTROL OF MOSQUITOES.  
C M Gjullin G W Eddy  
*Utah Mosquito Abatement Ass Proc* 18-19 ANNU. MEETING:7-9  
1966 420 UT1

Aedes nigromaculis, Aerial spraying, Chemical control (insects), Culicidae, Insecticides, Research.

17114-68

**17114-68**  
AN IMMUNOLOGICAL STUDY OF THE ANTIGENS OF ANTHONOMUS GRANDIS GRANDIS AND ANTHONOMUS GRANDIS THURBERIAE.  
B Glick N Mitlin  
*Entomol Soc Amer Ann* 61(2):548-550 REF  
15 Mar 1968 420 EN82  
Anthonomus grandis, Anthonomus grandis thurberiae, Antigens, Immunology, Insect morphology, Insect taxonomy.

17115-68

**17115-68**  
ANAEROBIC INDUCTION OF PRIMARY CHEMICAL ATTRACTANCY FOR AMBROSIA BEETLES.  
K Graham  
*Can J Zool* 46(5):905-908 REF  
Sep 1968 470 C16D  
Attractants, Biochemistry, Metabolism, Oxygen, Research, Temperature, Time, Trypodendron lineatum.

17116-68

**17116-68**  
THE INSECTS AND OTHER INHABITANTS OF SHELF FUNGI IN THE SOUTHERN BLUE RIDGE REGION OF WESTERN NORTH CAROLINA. III. ISOPTERA, LEPIDOPTERA AND ANTS.  
R C Graves A C F Graves  
*Entomol Soc Amer Ann* 61(2):383-385 REF  
15 Mar 1968 420 EN82  
Formicidae, Insect physiology, Lepidoptera, Termites, Wood destroying fungi.

17117-68

**17117-68**  
MICRO-POTENTIOMETRIC PH DETERMINATIONS OF MUSCOID MAGGOT DIGESTIVE TRACTS.  
B Greenberg  
*Entomol Soc Amer Ann* 61(2):365-368 REF  
15 Mar 1968 420 EN82  
Calliphoridae, Gastrointestinal system, Hydrogen ion concentration, Insect physiology, Maggots, Musca domestica, Muscoidea, Phormia regina, Potentiometry, Sarcophagidae.

17118-68

**17118-68**  
ADAPTATION OF INSECTS TO NICOTINE.  
F E Guthrie E Hodgson  
*Entomol Soc Amer Ann* 61(2):545-547 REF  
15 Mar 1968 420 EN82  
Diptera, Epitrix hirtipennis, Excreta, Food habits, Grasshoppers, Insect adaptation, Insect metabolism, Manduca quinquemaculata, Nicotinic acid, Prodenia eridania.

17119-68

**17119-68**  
OBSERVATIONS ON THE INFECTION OF JAPANESE BEETLE LARVAE WITH BACILLUS POPILLIAE.  
H H Hall G St. Julian G L Adams  
*J Econ Entomol* 61(3):840-843  
Jun 1968 421 J822  
Bacillus popilliae, Equipment, Insect diseases, Insect eggs, Insect rearing, Larvac, Popillia japonica, Sodium chloride, Temperature.

17120-68

**17120-68**  
LARCH SAWFLY SUPPRESSION WITH MALATHION LV(OR) CONCENTRATE.  
J B Hanson  
*J Econ Entomol* 61(3):872  
Jun 1968 421 J822



- Biochemistry, Chemical control (insects), Defoliation, Insecticides, Larix leptolepis, Malathion, Pristiphora erichsonii.
- 17121-68**  
ACTIVE TRANSPORT BY THE CECROPIA MIDGUT. III. MIDGUT POTENTIAL GENERATED DIRECTLY BY ACTIVE K-TRANSPORT.  
W R Harvey J A Haskell S Nedergaard  
*J Exp Biol* 48(1):1-12 REF  
Feb 1968 442.8 B77  
Biochemistry, Biological transport, Hyalophora cecropia, Intestines, Ions, Potassium.
- 17122-68**  
ACTIVE TRANSPORT BY THE CECROPIA MIDGUT. V. LOSS OF POTASSIUM TRANSPORT DURING LARVAL-PUPAL TRANSFORMATION.  
J A Haskell W R Harvey R M Clark  
*J Exp Biol* 48(1):25-37 REF  
Feb 1968 442.8 B77  
Biological transport, Ecdysone, Hyalophora cecropia, Hydrogen-ion concentration, Intestines, Ions, Metamorphosis, Potassium.
- 17123-68**  
FATTY ACIDS OF THE MOSQUITO, ANOPHELES FREEBORNI.  
K Hayashiya R F Harwood  
*Entomol Soc Amer Ann* 61(2):278-280 REF  
15 Mar 1968 420 EN82  
Anopheles, Anopheles freehorni, Chromatography, Hexadecenoic acid, cis-9-, Insect morphology, Oleic acid, Palmitic acid, Photoperiodism, Unsaturated compounds.  
Abstract: Palmitic, palmitoleic, and oleic acids collectively comprised at least 700 of total fatty acid. In both strains, aged females with identical temperature experience on short photoperiod had 11-150 greater levels of principal unsaturated fatty acids than did females on long photoperiod conditions.
- 17124-68**  
POSTEMBRYONIC REPRODUCTIVE SYSTEMS DEVELOPMENT IN EMPOASCA FABAE.  
T J Helms  
*Entomol Soc Amer Ann* 61(2):316-332 REF  
15 Mar 1968 420 EN82  
Empoasca fabae, Insect ecology, Morphology, Reproductive organs.
- 17125-68**  
SOME RECENT CHANGES IN THE APPROACH TO STUDIES OF CLIMATIC EFFECTS ON INSECT POPULATIONS.  
W R Hewson  
*Roy Entomol Soc London Symp* 18:37-46 REF  
1968 420 R81  
Biology, Climate, Correlation, Laboratories, Meteorology, Morphology, Population statistics, Research, Zeiraphera griseana.
- 17126-68**  
CADDIS LARVAE. LARVAE OF THE BRITISH TRICHOPTERA. QL517.4.0H5.  
N E Hickin  
476 P. LONDON, HUTCHINSON AND COMPANY LIMITED  
1967  
Economics, Insect biology, Insect evolution, Insect rearing, Insect taxonomy, Larvae, Metamorphosis, Trichoptera, Zoogeography.
- 17127-68**  
THE TACTICS OF A PREDATOR.  
C S Holling  
*Roy Entomol Soc London Symp* 4:47-58 REF  
1968 420 R81  
Ecology, Histology, Insect evolution, Laboratories, Pesticide residues, Podisus maculiventris, Population statistics, Predaceous insects, Research, Taxonomy.
- 17128-68**  
OVIPOSITION BEHAVIOR OF THE FACE FLY IN CAGED COW MANURE PATS.  
A A Hower T H Cheng  
*J Econ Entomol* 61(3):701-702  
Jun 1968 421 J822  
Insect behavior, Insect cages, Insect dissemination, Insect eggs, Manures, Musca autumnalis, Ovulation, Population.
- 17129-68**  
JUVENILE BOVINE LEUKOSIS; AN EPIZOOTIOLOGICAL, CLINICAL, PATHOANATOMICAL AND EXPERIMENTAL STUDY.  
G Hugoson  
*Acta Vet Scand* 22:108 P. REF  
1967 41.8 AC87  
Anatomy, Animal histology, Biochemistry, Bone marrow, Cattle, Cytology, Epidemiology, Epizootic diseases, Hematology, Injections, Laboratory animals, Leukemia, Livestock diseases, Microscopy, Research, Urine.
- 17130-68**  
THE HOST-FINDING BEHAVIOR OF THE HEN FLEA, CERATOPHYLLUS GALLINAE (SCHRANK) (SIPHONAPTERA).  
D A Humphries  
*Parasitology* 58(2):403-414 REF  
May 1968 448.8 P21  
Ceratophyllus gallinae, Hibernation, Insect behavior, Laboratories, Temperature, Vegetation.
- 17131-68**  
VARIATIONS IN GROWTH OF PLANTHOPPERS AND LEAFHOPPERS AMONG VARIETIES OF JAPANESE AND FOREIGN RICE PLANTS. TRANSL. 16904.  
H Inoue  
4 P.  
Cicadellidae, Immunity, Insect pests, Insect physiology, Plant injuries, Research, Rice, Seedlings. Translation from Odokon-Chugoku. 8:17-19, 1966 translated by Hideo Ueno
- 17132-68**  
METHOD OF PREDICTING THE MOST ACTIVE DAYS OF STEM BORER. TRANSL. 16902.  
N Isei S Yamashita  
9 P.  
Insect biology, Insect outbreaks, Insect pests, Methodology, Temperature, Weather. Translation from Shikoku Nogyo Kenkyu. 9:27-29, Feb., 1964. translated by Hideo Ueno
- 17133-68**  
RECENT ADVANCES IN NUTRITIONAL PHYSIOLOGY OF INSECTS. (JA)  
S Ishii  
*Kontyu* 35(3):240-247  
Sep 1967 421 K833  
Acids, Amylases, Biochemistry, Insect nutrition, Insect physiology.
- 17134-68**  
NEUROPHYSIOLOGY OF INSECT CHEMICAL SENSES. (JA)  
S Ishikawa  
*Kontyu* 35(3):231-239 REF  
Sep 1967 421 K833  
Chemoreceptors, Entomology, Insect physiology, Nervous system.
- 17135-68**  
STUDIES ON THE PROCESS OF THE OCCURRENCE OF WHITE-BLACK AND BROWN PLANTHOPPERS UP TO THEIR PRIMARY OUTBREAK.  
S Itoga Y Ouchi  
8 P.  
Breeding, Insects, Larvae, Physiology, Research. Translation from Assoc. Plant Protect, Kyushu. Proc. 8: 9-11 translated by Kazuko Nagatomi
- 17136-68**  
CROWDING EFFECTS ON PLUM CURCULIOS REARED AT SEVERAL DENSITIES ON TWO SIZES OF GREEN APPLES.  
S W Jacklin C E Yonce J P Hollon  
*J Econ Entomol* 61(3):816-819  
Jun 1968 421 J822  
Apples, Conotrachelus nenuphar, Density, Insect rearing, Larvae, Ovulation.
- 17137-68**  
ALCOHOL DEHYDROGENASE FROM DROSOPHILA: INTERCONVERSION OF ISOENZYMES. (ABSTRACT).  
K B Jacobson J A Knopp J B Murphy  
*Fed Amer Soc Exp Biol Fed Proc* 27(2):590  
Mar 1968 442.9 F31P  
Alcohol dehydrogenase, Biochemistry, Drosophila, Electrophoresis, Insect physiology, Naphthaleneacetic acid dehydrogenase, Spectrophotometry.
- 17138-68**  
NOTES ON THE BIOLOGY OF SOME SHORT-HORNED GRASSHOPPERS FROM EASTERN NIGERIA (ORTHOPTERA: ACRIDOIDEA).  
M L Jerath  
*Roy Entomol Soc London Proc Ser A Gen Entomol* 43(1-3):27-38  
03 May 1968 420 L84PA  
Grasshoppers, Insect behavior, Insect biology, Insect taxonomy, Metamorphosis, Plant pests.  
Abstract: The ovarian stages found in females of these species are recorded.
- 17139-68**  
THE ULTRASTRUCTURE OF THE LARVAL OCELLI IN THE MOSQUITO, AEDES AEGYPTI, AS AFFECTED BY A VITAMIN A DEFICIENCY.  
M A Jolie A J Pappelis  
*Diss Abstr Sect B* 28(11):4425B  
May 1968 Z5055.U49D53  
Aedes aegypti, Carotenes, Deficiency diseases, Diet, Electron microscopes, Insect rearing, Larvae, Sterilization, Vitamin a.
- 17140-68**  
ULTRASTRUCTURAL CHARACTERS OF ACTIVE AND INACTIVE CORPORA ALLATA IN LOCUSTA MIGRATORIA. (FR)  
L Jolly A Porte A Girardic  
*Acad Sci Compt Rend Ser D Sci Nat* 265(21):1633-1635  
20 Nov 1967 505 P21  
Biochemistry, Corpora allata, Glands (insects), Insect histology, Insect physiology, Locusta migratoria, Secretion.
- 17141-68**  
THE EFFECTS OF VARIOUS OXYGEN TENSIONS ON EMBRYOGENY AND LARVAL RESPONSES OF AEDES AEGYPTI.  
C L Judson H A N Gojrati  
*Entomol Exp Appl* 10(2):181-188  
1967 421 EN895  
Aedes aegypti, Embryology, Insect eggs, Insect morphology, Larvae, Oxygen, Tension, Time, Water.
- 17142-68**  
REMARKS ON BLACK WIDOW SPIDERS, WITH AN ACCOUNT OF SOME ANOMALIES.  
B J Kaston  
*Entomol News (philadelphia)* 79(5):113-124 REF  
May 1968 421 EN88  
Insect behavior, Insect biology, Insect morphology, Latrodectus mactans.
- 17143-68**  
STUDIES ON THE OBSERVATION OF THE RICE STEM BORER ABOUT THE RELATION BETWEEN THE WEIGHT AND THE GROWTH OF OVERWINTERING LARVAE. (REPORT 1). TRANSL. 16792.  
H Kibata H Inoue  
9 P.  
Fungi, Insect ecology, Insect pests, Insect physiology, Larvae, Parasitic insects, Parasitic plants, Plant injuries, Research, Rice, Rice stem borer, Tables (data). Translation from Hokuno. 31(3):1-6, 1964 translated by Kazuko Nagatomi.

17144-68

17144-68

## BIOCHEMICAL ASPECTS OF INSECT METAMORPHOSIS. (JA)

M Kobayashi

*Kontyu* 35(3):248-258 REF

Sep 1967 421 K833

Biochemistry, Deoxyrihonucleic acid, Insect physiology, *Manduca quinquemaculata*, Metamorphosis, Rihonucleic acid.

17145-68

## HISTOLOGICAL CHANGES PRODUCED BY A RUBY LASER IN NEODIPRION SERTIFER GEOFF.

R W Kobylnyk W H A Wilde

*Can J Zool* 46(5):947-949 REF

Sep 1968 470 C16D

Insect eggs, Insect histology, Insect morphology, Larvae, Neodiprion sertifer, Ovulation, Pinus sylvestris.

17146-68

## ANALYSIS OF THE INJURY OF BROWN PLANTHOPPER ON THE RICE PLANT. TRANSL. 16905.

M Kono S Soma M Ishikawa M Murakami

3 P.

Insect outbreaks, Insect pests, Plant injuries, Rice, Surveys, Tables (data). Translation from *Kantō-Tosan Plant Protect. Proc. Soc.* 8:431, 1961 translated by Dr. Ozawa

17147-68

## ANALYSIS OF INSECTICIDAL ACTION OF DIAZINON GRANULES AGAINST GREEN RICE LEAFHOPPERS. TRANSL. 16910.

T Koshihara

5 P.

Biochemistry, Chemical control (insects), Cicadellidae, Diazinon, Insecticides, Rice, Temperature. Translation from *Odokon-Chugoku*. 8:13-15, 1966. translated by Hideo Veno.

17148-68

## RHIPICEPHALUS SANGUINEUS: MOUTH PARTS. SF991.0K6.

F R Koutz

22 P. OHIO, OHIO STATE UNIVERSITY

1968

Anatomy, Dorsal vessel, Mouth parts, Research, *Rhipicephalus sanguineus*.

17149-68

## CONTROL METHODS FOR INSECTS AND DISEASES BY SPRAYING OF INSECTICIDES. TRANSL. 16909.

T Kozaka

17 P.

Aerial spraying, Biochemistry, Chemical control (insects), Insect control, Insect vectors, Insecticides, Methodology, Plant diseases, Tables (data). Translation from *Agr. Hort.* 39(9):1398-1402, 1964 translated by Kenji Nishimura

17150-68

## INTERACTIONS BETWEEN A MICROSPORIDIAN PATHOGEN OF THE LAWN-ARMYWORM AND HYMENOPTEROUS PARASITE APANTELES MARGINIVENTRIS.

F M Laigo M Tamasairo

*J Invertebrate Pathol* 9(4):546-554 REF

Dec 1967 421 J826

Apanteles marginiventris, Insect behavior, Insect diseases, Nosema, Spodoptera mauritia acronyctoides.

Abstract

17151-68

## EFFECT OF FOOD ON THE SUSCEPTIBILITY OF TROGODERMA GRANARIUM EVERTS (DERMESTIDAE: COLEOPTERA) TO INSECTICIDES.

R Lal B S Atri

*Indian J Entomol* 29(4):329-338 REF

Dec 1967 420 IN23

Food, Insecticide resistant insects, Insecticides, Nutrition, *Tribolium castaneum*, *Trogoderma granarium*.

17152-68

## BIOLOGY AND CONTROL OF THE ONION THRIPS IN INDIA.

B S Lall L M Singh

*J Econ Entomol* 61(3):676-679

Jun 1968 421 J822

Biochemistry, Breeding, Chemical control (insects), Fertility, Insect biology, Insect morphology, Insect pests, Insect rearing, Insecticides, Parathion, Population, Soil series, Spraying, Thrips tahaci.

17153-68

## DUAL INFECTIONS OF AEDES AEGYPTI WITH ARBOVIRUS. II. SALIVARY-GLAND DAMAGE BY SEMLIKI FOREST VIRUS IN RELATION TO DUAL INFECTIONS.

K S K Lam I D Marshall

*Amer J Trop Med Hyg* 17(4):637-644

Jul 1968 448.8 AM326

Aedes aegypti, Arboviruses, Cells, Histology, Salivary glands (insects), Semliki forest virus, Virus diseases (insects).

17154-68

## SEXUAL DIFFERENTIAL IN TIME OF HATCH OF EGGS OF THE GYPSY MOTH.

D E Leonard

*J Econ Entomol* 61(3):698-700 REF

421 J822

Experimental insects, Hatch, Insect eggs, Insect physiology, Insect rearing, Larvae, Mortality, *Porthetria dispar*, Sex, Time.

17155-68

## DIAPAUSE IN GYPSY MOTH.

D E Leonard

*J Econ Entomol* 61(3):596-598

Jun 1968 421 J822

Diapause, Hydrochloric acid, Insect eggs, Insect physiology, Insect rearing, Mortality, Ovulation, *Porthetria dispar*, Temperature.

17156-68

## A THREE-YEAR STUDY OF PARASITES OF THE BOLLWORM AND THE TOBACCO BUDWORM IN MISSISSIPPI.

W J Lewis J R Brazzel

*J Econ Entomol* 61(3):673-676

Jun 1968 421 J822

Biological control (insects), *Cardiochiles nigriceps*, *Heliiothis virescens*, *Heliiothis zea*, Insect rearing, Larvae, *Microplitis croceipes*, Parasitic insects, Research.

17157-68

## GEL FILTRATION OF INSECT HAEMOLYMPH PROTEINS.

B G Loughton A S West

*Can J Zool* 46(4):625-628 REF

Jul 1968 470 C16D

Assay, Blood, Electrophoresis, Enzymes, Esterases, Filters, Gels, Insect physiology, *Locusta migratoria*, *Malacosoma americanum*, Nymphs, Phenolases, Proteins.

17158-68

## LIPID CHANGES DURING THE LIFE CYCLE OF SARCOPHAGA BULLATA.

R H Lumb

*Diss Abstr Sect B* 28(9):3857B

Mar 1968 Z5055.U49D53

Biochemistry, Chromatography, Glycerides, Insect physiology, Larvae, Oleic acid, Palmitic acid, Phospholipids, *Sarcophaga hullata*.

17159-68

## THE DIFFERING EFFECTIVENESS OF PURIFIED AND NONPURIFIED SUSPENSIONS OF THE NUCLEAR-POLYHEDROSIS VIRUS OF PORTHETRIA DISPAR.

A Magnoler

*J Invertebrate Pathol* 11(2):326-328

Aug 1968 421 J826

*Heliiothis zea*, Insect control, Laboratories, Larvae, Mortality, Polyhedroses, Population statistics, *Porthetria dispar*, *Quercus suher*, Research, Toxicology, *Trichoplusia ni*, Virus diseases (insects). The article is a note

17160-68

## DEGRADATION OF INSECTICIDES BY ESTERASES OF THE AMERICAN COCKROACH.

F Matsumura K Sakai

*J Econ Entomol* 61(3):598-605 REF

Jun 1968 421 J822

Agar, Alpha-naphthyl acetate, Carbamates, Electrophoresis, Esterases, Hydrolysis, Insecticides, Organic compounds, *Periplaneta americana*, Phosphates, Starches.

17161-68

## THE NATURAL HISTORY OF THREE OAK-FEEDING TORTRICIDS: PTYCHOLOMA LECHEANA (L.), PANDEMIS CERASANA (HB.) AND BATODES ANGIUSTORANA (HAW.).

W Matthe

*Entomologist (london)* 100(1248):115-120 REF

May 1967 421 EN8

*Batodes angustiorana*, Forest insects, Insect biology, *Pandemis cerasana*, Parasitic insects, *Ptycholoma lecheana*, *Quercus*.

17162-68

## CARBAMATE CROSS RESISTANCE IN A CARBARYL-RESISTANT STRAIN OF THE GERMAN COCKROACH.

I C McDonald D G Cochran

*J Econ Entomol* 61(3):670-673 REF

Jun 1968 421 J822

*Blattella germanica*, Carbamates, Carharyl, Immunity, Insecticide application, Insecticides, Mortality, Nymphs, Therapeutics. Insecticides used were: Baygon, UC-10854, dimetilan, isolan, UC-21149, matacil, MC-A-600.

17163-68

## DIEL PERIODICITY IN SPERMATOPHORE FORMATION IN THE HOUSE CRICKET, ACHETA DOMESTICUS (L.).

J E McFarlane

46(4):695-698

Jul 1968

*Acheta domesticus*, Experimental insects, Insect rearing, Photoperiodism, Reproduction, Research, Spermatothores, Stridulation, Temperature.

17164-68

## MOSQUITO CONTROL AGENTS DERIVED FROM PETROLEUM HYDROCARBONS. II. LABORATORY EVALUATION OF A NEW PETROLEUM DERIVATIVE, FLIT MLO.

D W Micks G V Chambers J Jennings K Barnes

*J Econ Entomol* 61(3):647-650

Jun 1968 421 J822

*Aedes aegypti*, *Anopheles quadrimaculatus*, Biochemistry, Chemical control (insects), *Culex pipiens quinquefasciatus*, Experimental insects, Hydrocarbons, Insecticides, Mortality, Petroleum, Temperature.

17165-68

## COMMUNITY STUDIES ON HYMENOPTERA FOUND ON BRASSICA NAPUS C. V. CYNIPIDS (CYNIPOIDEA). (POL)

B Miczulski

*Pol Pismo Entomol* 37(4):787-796 REF

1967 421 P76

*Cynipidae*, Hymenoptera, Insect behavior, Parasitism, Rape, Research. English summary

17166-68

## A DEVICE FOR OBTAINING FLIES OF KNOWN AGE.

T A Miller R E Treece

*Entomol Soc Amer Ann* 61(2):548

15 Mar 1968 420 EN82

*Diptera*, Insect rearing equipment, *Musca autumnalis*.

17167-68

## PRESENT STATE OF INSECT TISSUE CULTURE. TRANSL. 16704.

J Mitsuhashi

32 P. REF

1966



- Anatomy, Bacteriophages, Culture media, Insects, Morphology, Research, Tissue culture. Translation from Shokubutsu boeki, 18(9-10):359-366. translated by G. Nishimura
- 17168-68**  
PUPATION OF WINTERING LARVAE OF THE RICE STEM BORER, CHILO SUPPRESSALIS WALKER, REARED AT 25 C. TRANSL. 16919. K Miyahara B Hashizume 7 P.  
Chilo suppressalis, Insect hology, Insect pests, Insect rearing, Larvae, Pupae, Rice, Temperature. Translation from Assoc. Plant Protect. Kyushu Proc. 8: 1-3, 1962 translated by Kenji Nishimura
- 17169-68**  
EXPERIMENTAL PREDICTION OF OCCURRENCE OF LEAFHOPPER. 5. OVARY MATURING CONDITION AND EGG-LAYING IN THE WEEDS OF LEAFHOPPER HIBERNATED IMAGO. TRANSL. 16901. K Miyahara 5 P.  
Cicadellidae, Environment, Hibernation, Light traps, Ovaries, Physiology, Research, Weeds. Translation from Kyushu Agri Res. 25:168-169 translated by Hideo Ueno
- 17170-68**  
EFFECT OF COMMERCIAL PROTEINS ON HOUSE FLY REPRODUCTION. R E Monroe N J Lamh  
*Entomol Soc Amer Ann* 61(2):456-459  
15 Mar 1968 420 EN82  
Insect nutrition, Musca domestica, Proteins, Reproduction.
- 17171-68**  
UPTAKE AND PERSISTENCE OF METEPA AND HEMPA IN THE HOUSE FLY. P B Morgan M C Bowman G C LaBrecque  
*J Econ Entomol* 61(3):805-808  
Jun 1968 421 J822  
Absorption, Baits, Biochemistry, Chemosterilants, Feed, Hempa, Insect control, Metepa, Musca domestica, Time.
- 17172-68**  
MORPHOLOGY, BIOLOGY, AND PHYTOPATHOLOGICAL SIGNIFICANCE OF THE GENUS APPELLIA C.B (APHIDOIDEA: APHIDIDAE). (GE) M Mostafaw  
*Z Angew Zool* 54(4):439-515 REF  
1967 449.8 Z36  
Aphididae, Appellia, Biology, Insect morphology, Phytopathology.
- 17173-68**  
EFFECTS OF SEVERAL INSECTICIDES ON BLACK RICE BUG. TRANSL. 16917. M Murakami 4 P.  
Biochemistry, Chemical control (insects), Chlorine, Insect pests, Insecticides, Plant injuries, Research, Rice. Translation from Kanto-Tosan Plant Protection Society. proceedings. 11: 1964 translated by Ayako Iimura.
- 17174-68**  
BROOD REARING BY CAGED HONEY BEES IN RESPONSE TO INOSITOL AND CERTAIN POLLEN FRACTIONS IN THEIR DIET. J L Nation F A Robinson  
*Entomol Soc Amer Ann* 61(2):514-517  
15 Mar 1968 420 EN82  
Apis mellifera, Insect nutrition, Insect rearing, Metamorphosis, Pollen.
- 17175-68**  
ACTIVE TRANSPORT BY THE CECROPIA MIDGUT. IV. SPECIFICITY OF THE TRANSPORT MECHANISM FOR POTASSIUM. S Nedergaard W R Harvey  
*J Exp Biol* 48(1):13-24  
Feb 1968 442.8 B77  
Biological transport, Hyalophora cecropia, Intestines, Ions, Larvae, Potassium, Rubidium.
- 17176-68**  
SYMBIOSIS; EFFECTS OF A MUTUALISTIC FUNGUS UPON THE GROWTH AND REPRODUCTION OF XYLEBORUS-FERRUGINEUS. D M Norris J K Baker  
*Science* 156(3778):1120  
27 May 1967 470 SC12  
Bacteria, Diet, Fungi, Injections, Insect morphology, Sterility, Symbiosis, Xyleborus ferrugineus.
- 17177-68**  
EFFECTS OF SUB-LETHAL HIGH TEMPERATURE ON AN INSECT, RHODNIUS PROLIXUS (STAL.). III. METABOLIC CHANGES AND THEIR BEARING ON THE CESSATION AND DELAY OF MOULTING. A Y K Okasha  
*J Exp Biol* 48(3):475-486 REF  
Jun 1968 442.8 B77  
Amino acids, Blood, Feeding, Insect physiology, Larvae, Lethal factors, Metabolism, Molting (insects), Rhodnius prolixus, Temperature.
- 17178-68**  
EFFECTS OF SUB-LETHAL HIGH TEMPERATURE ON AN INSECT, RHODNIUS PROLIXUS (STAL.). I. INDUCTION OF DELAYED MOULTING AND DEFECTS. A Y K Okasha  
*J Exp Biol* 48(3):455-463 REF  
Jun 1968 442.8 B77  
Feeding, Insect physiology, Larvae, Lethal factors, Rhodnius prolixus, Temperature.
- 17179-68**  
EFFECTS OF SUB-LETHAL HIGH TEMPERATURE ON AN INSECT, RHODNIUS PROLIXUS (STAL.). II. MECHANISM OF CESSATION AND DELAY OF MOULTING. A Y K Okasha  
*J Exp Biol* 48(3):465-473 REF  
Jun 1968 442.8 B77  
Cells, Feeding, Insect physiology, Larvae, Lethal factors, Rhodnius prolixus, Temperature.
- 17180-68**  
A SEX PHEROMONE IN THE PACIFIC COAST WIREWORM. J A Onsager L M McDonough D A George  
*J Econ Entomol* 61(3):691-693  
Jun 1968 421 J822  
Biochemistry, Biological assay, Carboxylic acids, Ethers, Limonium canus, Methylene chloride, Pheromones, Sex.
- 17181-68**  
REPELLENTS. IN: KILGORE, W. W. AND DOUTT, R. L., PEST CONTROL; BIOLOGICAL, PHYSICAL, AND SELECTED CHEMICAL METHODS. SB950.0K5. R R Painter  
267-285 REF NEW YORK, ACADEMIC PRESS  
1967  
Chromatography, Ecology, Insect repellents, Olfactometers, Research.
- 17182-68**  
VIRUSLIKE PARTICLES FROM HYALOPHORA CECROPIA LARVAE SUC-CUMBING FROM AN INTESTINAL DISEASE. D Peters G B Staal  
*J Invertebrate Pathol* 11(2):330-333  
Aug 1968 421 J826  
Centrifugation, Electron microscopy, Extracts, Hyalophora cecropia, Insect cages, Insect diseases, Intestines, Laboratories, Larvae, Mortality, Prunus serotina, Sedimentation, Spectrophotometry, Temperature, Ultraviolet rays.
- 17183-68**  
CONTRIBUTION TO THE STUDY OF REPRODUCTION AND THE EVOLUTIONARY CYCLE OF GLOSSINA MORSITANS WEST. (SP ) R C Pinhao  
*Inst Med Trop An* 23(3-4):311-450 REF  
Jul 1966 448.9 L68  
Evolution, Glossina morsitans, Insect physiology, Reproduction, Research.
- 17184-68**  
SYNTHESIS AND DISTRIBUTION OF RNA IN CECROPIA OOCYTE DIFFERENTIATION. S B Pollack  
*Diss Abstr Sect B* 28(10):4354B  
Apr 1968 Z5055.U49D53  
Autoradiography, Biochemistry, Extracts, Glycogen, Histochemistry, Hyalophora cecropia, Insect eggs, Insect physiology, Perchloric acid, Ribonucleic acid, Uridine.
- 17185-68**  
THE EFFECTS OF GAMMA RADIATION ON THE NAVEL ORANGEWORM, PARAMYELOIS TRANSITELLA (WALKER) (LEPIDOPTERA: PHENITIDAE) AND THE FEASIBILITY OF CONTROL WITH IRRADIATED ADULTS. F I Proshold  
*Diss Abstr Sect B* 28(10):4168B  
Apr 1968 Z5055.U49D53  
Dosage, Gamma rays, Greenhouse culture, Insect cages, Insect control, Insect eggs, Insect physiology, Paramyelois transitella, Research, Sterilization.
- 17186-68**  
ROLE OF THE HOST PLANT CONCERNING THE SEXUAL ATTRACTIVENESS OF ACROLEPIA ASSECTELLA ZELLER. (LEP. PLUTELLIDAE). (FR ) R Rahn  
*Acad Sci Compt Rend Ser D Sci Nat* 266(19):2004-2006  
06 May 1968 505 P21  
Acrolepia assectella, Insect ecology, Insect eggs, Insect physiology, Parasitic insects, Plutellidae, Reproduction, Sex attractants.
- 17187-68**  
RELATIVE TOXICITY OF INSECTICIDES TO ADULT LOCUSTA MIGRATORIA LINNAEUS. B K Rai  
*Indian J Entomol* 29(4):317-324  
Dec 1967 420 IN23  
Dusting, Injections, Insecticides, Locusta migratoria, Poisons, Spraying, Toxicology.
- 17188-68**  
FURTHER NOTES ON AYPERA POSTICA (GYLLENHAL) AND ITS NATURAL ENEMIES. B R S Rao B Parshad A Ram R P Singh M L Srivastava  
*Indian J Entomol* 29(4):370-379  
Dec 1967 420 IN23  
Alfalfa, Feed, Hypera postica, Natural control (insects), White sweetclover.
- 17189-68**  
THE ABUNDANCE OF INSECTS: INTRODUCTION. O W Richards T R E Southwood  
*Roy Entomol Soc London Symp* 4:1-7 REF  
1968 420 R81  
Ecology, Environment, Insect migration, Insects, Population statistics, Research.
- 17190-68**  
FATTY ACIDS IN HONEY BEES (APIS MELLIFERA) INFECTED WITH THE PROTOZOAN NOSEMA APIS. M D Roberts  
*J Invertebrate Pathol* 11(2):234-236  
Aug 1968 421 J826  
Apis mellifera, Chromatography, Extracts, Fatty acids, Lipids, Nosema apis.
- 17191-68**  
AMINO ACID SYNTHESIS FROM GLUCOSE-U-14 C IN ARGYROTAENIA VELUTINANA (LEPIDOPTERA: TORTRICIDAE) LARVAE. G C Rock K W King  
*J Nucl* 95(3):369-373 REF  
Jul 1968 389.8 J82

17192-68

Amino acids, *Argyrotaenia velutinana*, Biochemistry, Carbon isotopes, Chemicals, Diet, Glucose compounds, Insects, Larvae.

17192-68

THE OCCURRENCE OF THE FUNGUS ENTOMOPHTHORA GRYLLI FRESENIUS ON LOCUSTS AND GRASSHOPPERS IN THAILAND.

J Roffey

*J Invertebrate Pathol* 11(2):237-241 REF

Aug 1968 421 J826

Acrididae, Biological control (insects), Entomophthora, Fungus diseases (insects), Grasshoppers, Lethal factors, Weather.

17193-68

PHOTOPERIOD IN RELATION TO DIAPAUSE IN *HYPERA POSTICA* FROM CALIFORNIA.

S S Rosenthal C S Koehler

*Entomol Soc Amer Ann* 61(2):531-534 REF

15 Mar 1968 420 EN82

*Hypera postica*, Insect rearing, Metamorphosis, Photoperiodism.

17194-68

BIOLOGY OF THE MUSTARD APHID, *LIPAPHIS ERYSIMI*, IN INDIA.

G Rout B Senapati

*Entomol Soc Amer Ann* 61(2):259-261

15 Mar 1968 420 EN82

Aphididae, Hyadaphis pseudohrassicae, Insect biology, Insect morphology, Insect pests, Lipaphis erysimi.

17195-68

OSCILLATORY MECHANISM IN FIBRILLAR INSECT FLIGHT MUSCLE.

J C Ruegg

*Experientia* 24(6):529-536 REF

15 Jun 1968 475 EX7

Insect biochemistry, Insect flight, Insect physiology, Muscles. German and English summary

Abstract

17196-68

LOSS OF HOSTPLANT SPECIFICITY BY *MANDUCA SEXTA* AFTER REARING ON AN ARTIFICIAL DIET.

L M Schoonhoven

*Entomol Exp Appl* 10(2):270-272

55555421 EN895

Cabbage, Diet, Insect morphology, Insect physiology, Insect rearing, *Manduca sexta*, *Plantago*, *Taraxacum*, Tobacco, Tomatoes.

17197-68

THE STRUCTURE OF A PREGENITAL ABDOMINAL GANGLION OF THE DESERT LOCUST *SCHISTOCERCA GREGARIA* (FORMSKAL).

W D Seahrook

*Can J Zool* 46(5):965-980 REF

Sep 1968 470 C16D

Abdomen, Cells, Insect anatomy, Insect physiology, Nervous system, Neurology, Periplaneta, *Schistocerca gregaria*.

17198-68

PHEROMONES. IN: KILGORE, W. W. AND DOUTT, R. L., PEST CONTROL; BIOLOGICAL, PHYSICAL, AND SELECTED CHEMICAL METHODS. SB950.0K5.

H H Shorey L K Gaston

241-265 REF NEW YORK, ACADEMIC PRESS

1967

Biology, Chemistry, Environment, Insect behavior, Insect control, Pheromones, Population statistics.

17199-68

WINTER ACTIVITIES OF *VESPULA MACULIFRONS*.

R P Simon A N Benton

*Entomol Soc Amer Ann* 61(2):542-544

15 Mar 1968 420 EN82

Insect behavior, Vespidae, *Vespula maculifrons*.

17200-68

CHARACTERIZATION OF CARDIO-ACCELERATORS FROM NERVES AND TISSUES ASSOCIATED WITH THE HEART OF THE COCKROACH, *PERIPLANETA AMERICANA* LINNE.

N A Smith

*Diss Abstr Sect B* 28(10):4357B

Apr 1968 Z5055.U49D53

Centrifugation, Dialysis, Enzymes, Heart, Heat, Nerves, *Periplaneta americana*, Research, Sucrose, Tissues.

17201-68

URATE ACCUMULATION AND LIFE SPAN IN TWO SPECIES OF *HABROBRACON*.

R E Smith

*Diss Abstr Sect B* 28(10):4358B

Apr 1968 Z5055.U49D53

*Bracon hebetor*, Braconidae, Diet, Fertility, Insect morphology, Insect physiology, Irradiation, Temperature, Urate oxidase.

17202-68

LACQUERS CONTAINING DIELDRIN, MALATHION, OR DIAZINON AS CONTROLS FOR GERMAN COCKROACH.

B J Smittle G S Burden

*J Econ Entomol* 61(3):702-705

Jun 1968 421 J822

Biochemistry, *Blattella germanica*, Chemical control (insects), Diazinon, Dieldrin, Insecticide application, Insecticide residues, Insecticides, Malathion, Plywood, Time.

17203-68

MUTATIONS AS POSSIBLE AIDS FOR ESTABLISHING GENITALIC HOMOLOGIES IN THE SEXES IN *TRIBOLIUM CASTANEUM*.

A Sokoloff M A Hoy

*Entomol Soc Amer Ann* 61(2):550-553 REF

15 Mar 1968 420 EN82

Insect morphology, Insect mutation, Insect taxonomy, Reproductive organs, *Tribolium castaneum*.

17204-68

EVIDENCE FOR PHONORECEPTION IN THE LUBBER GRASSHOPPER *ROMALEA MICROPTERA*.

S L Sparks H D Patton

*Fed Amer Soc Exp Biol Fed Proc* 27(2):583

Mar 1968 442.9 F31P

Insect behavior, Insect physiology, Nervous system, Research, *Romalea microptera*.

17205-68

DRIED TORULA YEAST AS A SUBSTITUTE FOR BREWER'S YEAST IN THE LARVAL REARING MEDIUM FOR THE MEXICAN FRUIT FLY.

L M Spishakoff J G Hernandez Davila

*J Econ Entomol* 61(3):859-860

Jun 1968 421 J822

*Anastrepha ludens*, Carrots, Culture media, Insect rearing, Larvae, Yeasts.

17206-68

THE PHYSIOLOGY OF LABELLAR ELECTROLYTE RECEPTORS OF THE BLOWFLY, *PHORMIA REGINA*.

R A Steinhart

*Diss Abstr Sect B* 28(9):3932B

Mar 1968 Z5055.U49D53

Chemoreceptors, Electrophysiology, Hydrocarbons, Insect behavior, *Phormia regina*, Salivary glands (insects).

17207-68

DISTRIBUTION OF THE NEMATODE *HETEROTYLENCHUS AUTUMNALIS*, A PARASITE OF THE FACE FLY, IN NEW ENGLAND WITH NOTES ON ITS ORIGIN.

J G Stoffoland

*J Econ Entomol* 61(3):861-863

Jun 1968 421 J822

*Heterotylenchus autumnalis*, *Musca autumnalis*, Nematodes, Parasitism, Zoogeography.

17208-68

INCLUSIONS IN ADULTS OF THE EUROPEAN PINE SAWFLY, *NEODIPRION SERTIFER* (GEOFF.).

C R Sullivan D R Wallace

*Can J Zool* 46(5):959-963 REF

Sep 1968 470 C16D

Experimental insects, Inclusion bodies, Insect diseases, Insect rearing, Larvae, *Neodiprion sertifer*, *Pinus resinosa*, Temperature.

17209-68

VARIATIONS IN THE PHOTOPERIODIC RESPONSE OF *NEODIPRION SERTIFER*.

C R Sullivan D R Wallace

*Can J Zool* 46(5):1082-1083

Sep 1968 470 C16D

Experimental insects, Insect rearing, *Neodiprion sertifer*, Photoperiodism, Population, Reproduction, Research, Temperature.

17210-68

RELATIVE TOXICITY OF SOME INSECTICIDES AS CONTACT POISONS TO THE LARVAE OF *EARIAS FABIA* STOLL.

T P S Teotia P M Nigam

*Indian J Entomol* 29(4):391-392

Dec 1967 420 IN23

Chemical control (insects), Cotton, *Earias fabia*, Insecticides, Larvae, Okra, Poisons, Toxicology.

17211-68

TRANS-ALDRIN GLYCOL AS A METABOLITE OF DIELDRIN IN LARVAE OF THE SOUTHERN HOUSE MOSQUITO.

A D Tomlin

*J Econ Entomol* 61(3):855-857

Jun 1968 421 J822

Aldrin, Biochemistry, Chemical control (insects), *Culex pipiens quinquefasciatus*, Dieldrin, Glycols, Insecticides, Larvae, Metabolites.

17212-68

AN ANATOMICAL AND HISTOLOGICAL STUDY OF THE MALE MYRMICINE ANT, *MYRMICA RUBRA*, L. (HYMENOPTERA: FORMICIDAE).

W B Trakimas

*Diss Abstr Sect B* 28(10):4360B

Apr 1968 Z5055.U49D53

Gastrointestinal system, Insect anatomy, Insect histology, Insect physiology, *Myrmica rubra*, Reproductive organs, Research, Salivary glands (insects).

17213-68

HAEMOLYMPH ESTERASES IN THE FEMALE LARVAL HONEYBEE, *APIS MELLIFERA* L., DURING CASTE DEVELOPMENT.

R K Tripathi S E Dixon

*Can J Zool* 46(5):1013-1017 REF

Sep 1968 470 C16D

*Apis mellifera*, Electrophoresis, Enzymes, Esterases, Hemolymph, Hemolysis, Insect morphology, Larvae, Polymorphism.

17214-68

MERMITHID PARASITES OF THE MOSQUITO *AEDES VEXANS* MEIGEN IN BRITISH COLUMBIA.

M Trpis W O Haufe J A Shemanchuk

*Can J Zool* 46(5):1077-1079

Sep 1968 470 C16D

*Aedes vexans*, Biological control (insects), Experimental insects, Feeding, Morphology, Mortality, Nematodes, Parasitism, Research, Temperature.

17215-68

POPULATION SAMPLE COUNTS ON SPIDER MITES.

M Van De Vrie

*Entomophaga Mem Hors Ser* 3:55

1967 421 EN835M

Apples, Leaves, *Panonychus ulmi*, Population statistics, Predaceous insects, Tetranychidae.

17216-68

POPULATION MODELS FOR THE WINTER MOTH.



G C Varley G R Gradwell

*Roy Entomol Soc London Symp 4:132-142 REF*  
1968 420 R81

Biological control (insects), Ecology, Mortality, Opcrophtera brumata, Population statistics, Research.

17217-68

UNDULATORY LOCOMOTION OF THE PLANT PARASITIC NEMATODE MELOIDOGYNE JAVANICA.

H R Wallace

*Parasitology 58(2):377-391 REF*

May 1968 448.8 P21

Eggs, Environment, Insect physiology, Larvae, Meloidogyne javanica, Research.

17218-68

PRESENT STATUS OF BIOLOGICAL CONTROL OF THE PEAR PSYLLA IN SOUTHERN OREGON.

P H Westgard L G Gentner D W Berry

*J Econ Entomol 61(3):740-743*

Jun 1968 421 J822

Biological control (insects), Fruit, Insect eggs, Insect pests, Mortality, Nymphs, Parasitic insects, Pears, Plant injuries, Psylla pyricola, Research, Trachnites insidiosus.

17219-68

LARGE SCALE GRANULAR PARATHION PRE-TREATMENT OF A DUCK CLUB AREA IN THE COLUSA MOSQUITO ABATEMENT DISTRICT.

K G Whitesell

*Utah Mosquito Abatement Ass Proc 18-19 ANNU. MEETING:14-15*

1966 420 UT1

Aedes melanion, Aerial spraying, Chemical control (insects), Laboratories, Parathion, Research, Weather.

17220-68

SOME ASPECTS OF MOSQUITO CONTROL IN CALIFORNIA.

J D Willis

*Utah Mosquito Abatement Ass Proc 18-19 ANNU. MEETING:13-14*

1966 420 UT1

Aerial spraying, Culex pipiens pipiens, Culicidae, Histology, Insect control, Insecticides, Population statistics, Research, Weather.

17221-68

REDUCTION OF TABANID POPULATIONS ON CATTLE WITH STICKY TRAPS BAITED WITH DRY ICE.

B H Wilson

*J Econ Entomol 61(3):827-829*

Jun 1968 421 J822

Baits, Cattle, Dry ice, Insect control, Insect pests, Insect traps, Population, Tabanidae, Temperature, Weather.

17222-68

INSECT ABUNDANCE: PROSPECT.

F Wilson

*Roy Entomol Soc London Symp 4:143-158 REF*

1968 420 R81

Environment, Insect outbreaks, Insects, Laboratories, Population statistics, Research.

17223-68

THE INTERNAL MORPHOLOGY OF THE REPRODUCTIVE SYSTEMS OF SOME PSOCID SPECIES.

S K Wong I W B Thornton

*Roy Entomol Soc London Proc Ser A Gen Entomol 43(1-3):1-12 REF*

03 May 1968 420 L84PA

Insect morphology, Psocoptera, Reproductive organs.

17224-68

LABORATORY STUDIES WITH THE MOSQUITO IRIDESCENT VIRUS (MIV).

D B Woodard H C Chapman

*J Invertebrate Pathol 11(2):296-301*

Aug 1968 421 J826

Aedes sollicitans, Aedes taeniorhynchus, Culicidae, Insect rearing, Laboratories, Larvae, Mosquito iridescent virus.

17225-68

BIOLOGIES OF THREE SPECIES OF ALYDUS IN WISCONSIN.

T R Yonke J T Medler

*Entomol Soc Amer Ann 61(2):526-531 REF*

15 Mar 1968 420 EN82

Alydus conspersus, Alydus curinus, Alydus pilosulus, Insect biology, Insect morphology.

## GENETICS

17226-68

INHERITED MELANISM IN THE LARGE MILKWEED BUG, ONCOPELTUS FASCIATUS (HETEROPTERA: LYGAEIDAE).

C E Abbott

*Entomol Soc Amer Ann 61(2):542*

15 Mar 1968 420 EN82

Heredity, Insect genetics, Melanosis, Oncopeltus fasciatus.

17227-68

THE DEVELOPMENTAL GENETICS OF THE EYELESS-DOMINANT MUTATION IN DROSOPHILA MELANOGASTER (MEIG.).

R Arking

*Diss Abstr Sect B 28(10):4003B*

Apr 1968 Z5055.U49D53

Blindness, Chromosomes, Drosophila melanogaster, Eyes, Insect genetics, Insect morphology, Larvae, Mutation, Sex.

17228-68

TEMPERATURE-SENSITIVE MUTATIONS IN DROSOPHILA MELANOGASTER. II. FREQUENCY AMONG SECOND CHROMOSOME RECESSIVE LETHALS INDUCED BY ETHYL METHANESULFONATE.

D Baile D T Suzuki M Tarasoff

*Can J Genet Cytol 10(2):412-420 REF*

Jun 1968 443.8 C16

Chromosomes, Drosophila melanogaster, Ethyl methanesulfonate, Insect genetics, Lethal factor, Mutation, Temperature.

17229-68

POLYMORPHISM IN THE AUSTRALIAN ACRIDIDAE. I. INHERITANCE OF COLOUR PATTERNS IN THE PLAGUE LOCUST, CHORTOICETES TERMINIFERA.

O R Byrne

*Heredity 22(4):561-568 REF*

Nov 1967 443.8 H42

Acrididae, Chortoicetes terminifera, Color, Inheritance, Insect genetics, Polymorphism.

17230-68

THE INHERITANCE OF FERTILITY IN DROSOPHILA MELANOGASTER.

W Chapco

*Diss Abstr Sect B 28(10):4004B-4005B*

Apr 1968 Z5055.U49D53

Breeding, Chromosomes, Drosophila melanogaster, Fertility, Genes, Heredity, Insect eggs, Insect genetics, Mutation, Research.

17231-68

TRANSFORMATION OF INSEMINATED FEMALES OF APHYTIS LINGNANENSIS INTO FACTITIOUS VIRGINS BY LOW-TEMPERATURE TREATMENT.

P DeBach S V Rao

*Entomol Soc Amer Ann 61(2):332-337 REF*

15 Mar 1968 420 EN82

Aphytis lingnanensis, Artificial insemination, Insect rearing, Sex behavior, Sterilization, Temperature.

17232-68

THE EFFECT OF LINKAGE ON GENETIC VARIANCE.

I R Franklin

*Diss Abstr Sect B 28(10):4006B*

Apr 1968 Z5055.U49D53

Breeding, Chromosomes, Genes, Insect genetics, Population, Tribolium castaneum, Variance analysis.

17233-68

A COMPARATIVE STUDY OF INDUCED INCREASES IN PROXIMAL RECOMBINATION IN DROSOPHILA MELANOGASTER FEMALES.

S Hayashi D T Suzuki

*Can J Genet Cytol 10(2):276-282 REF*

Jun 1968 443.8 C16

Actinomycin d, Breeding, Chromosomes, Drosophila melanogaster, Insect genetics, Radiation, Research, Temperature.

17234-68

RATES OF SPONTANEOUS MUTATION IN CERTAIN GENES OF AN ARRHENOTOKOUS MITE, TETRANYCHUS PACIFICUS.

W Helle A Q Van Zon

*Entomol Exp Appl 10(2):189-193*

1967 421 EN895

Genes, Insect genetics, Mites, Mutation, Pigmentation, Tetranychus pacificus.

17235-68

A STUDY OF RADIATION-INDUCED DOMINANT LETHALS AND TRANSLOCATIONS IN DROSOPHILA VIRILIS IN AN OXYGEN ATMOSPHERE AT 4 C.

G E Omundson

*Diss Abstr Sect B 28(10):4353B*

Apr 1968 Z5055.U49D53

Atmosphere, Cold, Drosophila virilis, Insect eggs, Insect genetics, Irradiation, Lethal factor, Oxygen, Reproduction, Sex, Temperature, Therapeutics.

17236-68

A STUDY OF ISOENZYME POLYMORPHISM IN EXPERIMENTAL POPULATIONS OF DROSOPHILA MELANOGASTER.

M Rasmuson B Rasmuson L R Nilson

*Heredias 57(1-2):263-274*

1967 442.8 H42

Drosophila melanogaster, Enzymes, Experimental insects, Heterogenesis, Insect genetics, Insect rearing, Polymorphism.

17237-68

EFFECT OF INSECTICIDES AND INSECTICIDE TREATED COCKROACH BLOOD ON THE HEART BEAT OF PERIPLANETA AMERICANA L.

P Sudershan M B Naidu

*Indian J Exp Biol 5(4):215-218 REF*

Oct 1967 442.8 IN2

Blattidae, Heart rate, Insecticide application, Insecticides, Malathion, Periplaneta americana, Pyrethrum, Ventral nerve cord.

17238-68

A COMPARISON OF BANDING PATTERNS IN SALIVARY GLAND CHROMOSOMES OF TWO SPECIES OF DROSOPHILA.

F M A Van Breugel A Ray H Gloor

*Genetica 39(2):165-192 REF*

1968 442.8 G282

Chromosomes, Cytogenetics, Drosophila hydei, Drosophila melanogaster, Insect genetics, Salivary glands (insects).

Abstract

## MEDICAL ENTOMOLOGY

17239-68

SUMMARY OF RECENT ABSTRACTS. IV. TRYPANOSOMIASIS. AFRICAN TRYPANOSOMIASIS. HUMAN.

Anonymous

*Trop Dis Bull 64(5):441-455*

May 1967 448.8 T752

Epidemiology, Glossina, Human diseases, Insect vectors, Reports, Trypanosomiasis.

17240-68

## SUMMARY OF RECENT ABSTRACTS. VII. RICKETTSIAL DISEASES.

*Trop Dis Bull* 65(8):961-968

Aug 1968 448.8 T752

Anoplura, Human diseases, Insect vectors, Mites, Q fever, Rickettsial diseases, Siphonaptera, Typhus. Summary compiled from abstracts of *Tropical Diseases Bulletin*, 1967, v. 64.

17241-68

## KEY TO RAPID IDENTIFICATION OF AN-TROPOPHILIC PHLEBOTOMUS IN THE CUTANEOUS AREA OF LEISHMANIASIS IN MEXICO. (SP)

A M De Biagi

*Rev Invest Salud Publica* 26(4):367-373

Oct 1966 449.9 M572

Ecology, Insect identification, Insect vectors, Leishmaniasis, Phlebotomus, Skin. English summary

17242-68

## APPLICATION OF IMMUNODIFFUSION METHODS TO THE ANTIGENIC ANALYSIS OF DENGUE VIRUSES.

A N Ibrahim

*Diss Abstr Sect B* 28(10):4216B

Apr 1968 Z5055.U49D53

*Aedes aegypti*, Antigens, Assay, Dengue (man), Electrophoresis, Immunization, Serological tests, Serum, Viruses.

17243-68

## DEVELOPMENT OF STUDIES IN CZECHOSLOVAKIA ON NATURAL FOCI OF DISEASES. (JPRS 44,874) TRANSL. 16897.

B Rositskiy

16 P

01 Apr 1968

History, Human diseases, Insect vectors, Wildlife. Translation from *Parazitologiya* 5:378-389, 1967 issued by CFSTI.

17244-68

## TREATMENT AND CONTROL OF SCABIES, LICE AND FLEA INFESTATION OF MAN. (SP)

H Schenone H Reyes

*Bol Chileno Parasitol* 22(2):56-59 REF

Apr 1967 436.9 C43

Chemical control (insects), Epidemiology, Humans, Insect biology, Pediculus humanus, Phthirus pubis, Sarcoptes scabiei, Siphonaptera. English abstract

Abstract: Life-cycle, bionomics and epidemiological characteristics of ectoparasites are the main factors in their treatment and control. *Sarcoptes scabiei*, *Pediculus humanus* and *Phthirus pubis* are highly specific to man. They are permanent ectoparasites through their complete life-cycle. Therapeutic and preventive measures must be carried out on the infested person. Fleas are ectoparasites only during the blood meal, are highly non-specific in host selection, and develop in the environment. Thus, flea control must be carried out in their environmental breeding or shelter places, and the measures on the human or animals hosts are only complementary. The principal methods of treatment and control are described.

17245-68

## FIVE YEARS' EXPERIENCE MAINTAINING COLONIES OF PEDICULUS HUMANUS IN THE LABORATORY. (SP)

G Varela

*Rev Invest Salud Publica* 27(4):317-320

Oct 1967 449.9 M572

Experimental insects, Insect rearing, Insect vectors, Laboratories, *Pediculus humanus*, Rabbits, Research, Rickettsial diseases. English summary

17246-68

## GENETICS OF INSECT VECTORS OF DISEASE. RA639.0W7.

J W Wright R Pal

794 P. NEW YORK, ELSEVIER PUBLISHING COMPANY

1967

*Aedes aegypti*, Anopheles, Arthropoda, Blattidae, Breeding, *Culex pipiens*, Cytology, Immunity, Insect evolution, Insect genetics, Insect physiology, Insect vectors, Insecticides, *Musca domestica*, Population, Public health, Research, *Triatoma*.

## CROP PRODUCTION

17247-68

## PROCEEDINGS INTERNATIONAL SYMPOSIUM ON PLANT DISEASES AND PESTS IN A DEVELOPING EUROPE.

Anonymous

*Neth J Plant Pathol* 73(SUP-1), 172 P. REF

1967 464.8 T44

Agricultural outlook, International cooperation, Phytopathology, Plant disease control, Plant pest control, Symposia, World agricultural situation.

17248-68

## MICROORGANISMS AND THE INORGANIC NUTRITION OF HIGHER PLANTS.

D A Barber

*Annu Rev Plant Physiol* 19:71-88

1968 450 AN78

Ions, Microorganisms, Plant nutrition, Plant physiology, Soils, Tissues.

17249-68

## EFFECT OF B-GROUP VITAMINS AND ETHYL ALCOHOL ON AFLATOXIN PRODUCTION BY ASPERGILLUS ORYZAE.

S C Basappa A Jayarman V Sreenivasamurthy H A B Parpia

*Indian J Exp Biol* 5(4):262-263

Oct 1967 442.8 IN2

Aflatoxin, *Aspergillus oryzae*, Ethyl alcohol, Metabolites, Thiamine, Toxins, Vitamins.

17250-68

## PHYTOPATHOLOGICAL DEVELOPMENTS IN AN INTEGRATING EUROPE.

B W Bieshhuvel

*Neth J Plant Pathol* 73(SUP.1):3-12

1967 464.8 T44

Agricultural economics, Agricultural research, International cooperation, Phytopathology, Plant protection, World agricultural situation.

17251-68

## AN INHERITANCE STUDY OF TOLERANCE TO ATRAZINE IN A CROSS OF FLAX (LINUM USITATISSIMUM L.).

V E Comstock R N Andersen

*Crop Sci* 8(4):508-509

Aug 1968 64.8 C883

Atrazine, Corn, Greenhouses, Inheritance, Quantitative analysis, Research.

17252-68

## THE BIOLOGY AND ECOLOGY OF SICKLEPOD (CASSIA OBTUSIFOLIA L.).

J M Jr Creel

*Diss Abstr Sect B* 28(10):3969B

Apr 1968 Z5055.U49D53

Cassia obtusifolia, Cotton, Light, Nutrient solutions (plants), Plant ecology, Plant physiology, Research, Rhizoctonia, Seed germination, Seedlings, Temperature.

17253-68

## SOME EFFECTS OF ENVIRONMENTAL AND CHEMICAL TREATMENTS ON GROWTH INDUCTION AND METABOLISM: I. EFFECTS OF LIGHT ON PHOSPHATE AND NUCLEIC ACID METABOLISM IN TOBACCO LEAF DISCS. II. GROWTH INDUCTION AND METABOLISM IN CARROT PHLOEM EXPLANTS.

N Degani

*Diss Abstr Sect B* 28(10):4263B

Apr 1968 Z5055.U49D53

Biochemistry, Carrots, Culture media, Drug therapy, Indoleacetic acid, Light, Nucleic acids, Oxygen, Phloem, Phosphates, Plant ecology, Plant metabolism, Plant physiology, Plant regulators, Tobacco.

17254-68

## DIPLOIDIZATION OF INDUCED TETRAPLOID HYBRIDS OF DACTYLIS GLOMERATA BY MEANS OF X-RAY IRRADIATION.

T E Devine

*Diss Abstr Sect B* 28(11):4385B

May 1968 Z5055.U49D53

Aschersoniana, Breeding, Chromosomes, *Dactylis glomerata*, Irradiation, Lusitanica, Plant genetics, Polyploidy, Seedlings, X-rays.

17255-68

## SPERMIOGENESIS IN LACCIFER LACCA (KERR) (LACCIFERIDAE COCCOIDEA).

T S S Dikshith

*Cytologia* 31(3):302-308

Sep 1966 442.8 C99

Cell nucleus, Cells, Chromatin, Chromosomes, Cysts, Cytology, *Laccifer lacca*, Plant genetics, Plants, Reproduction, Research, Spermatozoa.

17256-68

## CERTAIN EFFECTS OF BENZIMIDAZOLE ON YOUNG TOBACCO PLANTS.

J J Dyar

*Plant Physiol* 43(3):477-478

Mar 1968 450 P692

Benzimidazole, Mottle (tobacco), Plant hormones, Plant physiology, Plant regulators, Potassium, Tobacco.

17257-68

## A NOTE ON THE RELATIVE SUSCEPTIBILITY OF SOME GROUNDNUT (ARACHIS HYPOGAEA) VARIETIES TO CERCOSPOA PERSONATA.

E El Nur G Ibrahim

*Plant Dis Rep* 52(5):405

May 1968 1.9 P69P

Breeding, *Cercospora arachidicola*, *Cercospora personata*, Copper, Crop yields, Peanuts, Spraying, Sulfur, X-rays.

17258-68

## CHROMOSOMAL NUMBER AND MITOTIC DIVISION IN PIRICULARIA ORYZAE. (ABSTRACT).

P Giatgong A Frederiksen

*Phytopathology* 58(6):728

Jun 1968 464.8 P56

Chromosomes, Cytology, Genetics, *Piricularia oryzae*.

17259-68

## THE TRANSPORT OF AUXIN.

M H M Goldsmith

*Annu Rev Plant Physiol* 19:347-360

1968 450 AN78

Ethylene, Indoleacetic acid, Plant hormones, Triiodobenzoic acid, 2,3,5-.

17260-68

## CONTROL OF NEMATODES IN HORTICULTURAL CROPS IN GREAT BRITAIN.

G M Hague

*Agr Vet Chem* 8(2):37-44 REF

Mar 1967 382 AG82

Fungi, Fungicides, Mushrooms, Narcissus pseudonarcissus, Plant nematodes, Root rot, Thionazin, Tomatoes, Tulipa, Virucides, Viruses.

17261-68

## METABOLIC CHANGES IN OXYGEN-DEFICIENT TOMATO ROOTS.

M G Huck

*Diss Abstr Sect B* 28(10):3967B

Apr 1968 Z5055.U49D53

Measurement, Nitrogen, Nutrient solutions (plants), Oxygen, Plant injuries, Plant nutrition, Plant translocation, Roots, Tissues, Tomatoes, Water.

17262-68

## ON THE USE OF LOW TOXIC HERBICIDES IN PADDY FIELD. TRANSL. 16690.

H Hyakutake T Inoue S Chikura S Kojima

14 P.



Chemicals, Herbicides, Plant injuries, Plant morphology, Research, Rice, Toxicology, Water. Translation from Fukuoka Agricultural Experiment station, Report No. 2. translated by Micko Nishimura

17263-68

**DISINFECTION, STERILIZATION, AND PRESERVATION. RA761.L3.**

C A Lawrence S S Block

808 P. PHILADELPHIA, LEA AND FEBIGER 1968

Antiseptics, Canning, Crop yields, Laboratories, Radiation, Sterilization.

17264-68

**ANASTOMOSIS IN VENTURIA INAEQUALIS (CKE.) WINT.**

L S Lev

*Diss Abstr Sect B 28(11):4377B*

May 1968 Z5055.U49D53

Anastomosis, Fungi, Plant ecology, Plant genetics, Reproduction, Seed germination, Temperature, Venturia inaequalis.

17265-68

**ANNUAL REVIEW OF PLANT PHYSIOLOGY.**

L Macblis W R Briggs R B Parks

*Annu Rev Plant Physiol 19:555 P.*

1968 450 AN78

Cells, Metabolism, Photosynthesis, Plant morphology, Plant nutrition, Plant physiology.

17266-68

**A QUANTITATIVE STUDY OF THE EFFECTS OF GIBBERELIC ACID ON THE GROWTH OF FESTUCA ARUNDINACEA.**

D G Morgan

*Australian J Agr Res 19(2):221-225 REF*

Mar 1968 23 AU783

Festuca arundinacea, Gibberellic acid, Photosynthesis, Plant biochemistry, Plant physiology, Plant regulators.

Abstract: First effect of G acid was to change the distribution of dry matter between shoot and root and between tillers within the shoot without affecting total plant weight.

17267-68

**THE ROLE OF MIXED FUNCTION OXIDASES IN DITERPENE METABOLISM.**

P J Murphy

*Diss Abstr Sect B 28(11):4416B*

May 1968 Z5055.U49D53

Diterpenes, Gibberellins, Hormones, Liver, Metabolism, Oxidases, Plant physiology, Plant regulators, Rats.

17268-68

**STOMATAL CONDUCTIVITIES IN K-DEFICIENT LEAVES OF MAIZE (ZEA MAYS, L.).**

D E Peaslee D N Moss

*Crop Sci 8(4):427-430 REF*

Aug 1968 64.8 C883

Corn, Leaves, Phenylmercuric acetate, Photosynthesis, Plant nutritional deficiencies, Potassium, Research, Spraying, Stomata.

17269-68

**NATURAL INFECTION OF SCOTS PINE BY LODGEPOLE PINE DWARF MISTLETOE IN CANADA.**

J M Powell

*Plant Dis Rep 52(5):409-410*

May 1968 1.9 P69P

Arceuthobium americanum, Pinus sylvestris, Plant disease control, Stems, Tree diseases, Trees.

17270-68

**FORMATION OF GROWTH INHIBITORS IN WILTING APRICOT LEAVES.**

T N Pustovoitova

*Soviet Plant Physiol 14(1):77-83 REF*

Jan 1967 450 F580AE

Apricots, Droughts, Plant hormones, Plant physiology.

17271-68

**THE ADSORPTION OF ATRAZINE BY SOILS AND SOIL COLLOIDAL COMPONENTS.**

R O Radkc

*Diss Abstr Sect B 28(11):4383B-4384B*

May 1968 Z5055.U49D53

Assay, Atrazine, Bentonite, Centrifugation, Colorimetry, Culture media, Herbicides, Hydrogen-ion concentration, Soil adsorption, Soil colloids.

17272-68

**METABOLIC CHANGES IN BIOTIN-DEFICIENT ASPERGILLUS NIDULANS.**

K K Rao V V Modi

*Can J Microbiol 14(7):813*

Jul 1968 448.8 C162

Aspergillus nidulans, Biotin, Carbohydrates, Culture media, Deficiency diseases, Fatty acids, Lipids, Metabolism, Mitochondria, Proteins, Vitamins.

17273-68

**EFFECT OF GENETIC RECOMBINATION ON THE PATHOGENICITY OF PHYTOPHTHORA INFESTANS.**

S Romero-Cova

*Diss Abstr Sect B 28(10):3962B-3963B*

Apr 1968 Z5055.U49D53

Agar, Culture media, Fungi, Light, Phytophthora infestans, Plant genetics, Plant physiology, Reproduction, Seed germination, Temperature.

17274-68

**PERMEABILITY TO METHYL BROMIDE OF WRAPPERS FOUND ON SHIPMENTS OF IMPORTED PLANTS.**

H Roth H H Richardson

*J Econ Entomol 61(3):776-778*

Jun 1968 421 J822

Foreign trade, Freight transportation, Fumigation, Methyl bromide, Packing, Permeability, Plants.

17275-68

**FURTHER OBSERVATIONS OF DWARF MISTLETOE ON EASTERN LARCH IN MINNESOTA.**

F H Tainter D W French

*Phytopathology 58(6):880-881*

Jun 1968 464.8 P56

Arceuthobium, Larix, Parasitism, Picea glauca, Picea mariana, Research.

17276-68

**SALT DAMAGE TO VEGETATION IN THE WASHINGTON, D. C. AREA DURING THE 1966-67 WINTER.**

H V Wester E E Cohens

*Plant Dis Rep 52(5):350-354*

May 1968 1.9 P69P

Grasses, Growth factors, Meteorology, Silver nitrate, Sodium chloride, Soil analysis, Toxins, Trees, Vegetation.

**DISEASES**

17277-68

**SOME PROBLEMS IN STUDYING THE INFECTION MECHANISM. (JA)**

S Akai

*Phytopathol Soc Jap Ann 33(3):121-123*

Jun 1967 464.9 P562

Mechanics, Phytopathology, Plant diseases, Research.

17278-68

**EFFICACY OF SCREENING FUNGICIDAL AND FUNGISTATIC PROPERTIES AGAINST SOIL-BORNE PATHOGENS. (ABSTRACT).**

W R Arnold R W Toler

*Phytopathology 58(6):725*

Jun 1968 464.8 P56

Fungicides, Fusarium oxysporum, Rhizoctonia solani, Sclerotium rolfsii, Soil-borne plant diseases, Thielaviopsis basicola.

17279-68

**CONCERNING THE EVIDENCE OF TOBACCO MOSAIC VIRUS IN GRAPE VINES. (GER)**

R Bercks

*Z Pflanzenkrankh (pflanzenpathol) Pflanzenschutz*

74(6):346-349

Jun 1967 464.8 Z3

Grape vineyards, Injections, Mosaic (tobacco), Plant diseases, Serological tests. English summary

17280-68

**ACCUMULATION OF PHENOLS IN RESISTANT PLANT-FUNGUS INTERACTIONS. (ABSTRACT).**

W L Biehn

*Diss Abstr Sect B 28(11):4374B*

May 1968 Z5055.U49D53

Fungus diseases (plants), Helminthosporium carthoum, Injections, Kidney beans, Lima beans, Phenol compounds, Phenols, Seedlings, Soybeans, Time.

17281-68

**MORPHOLOGICAL AND NUCLEAR PHENOMENA OF FUSICLADIUM EFFUSUM. (ABSTRACT).**

D J Blasingame C H Jr. Graves

*Phytopathology 58(6):725*

Jun 1968 464.8 P56

Fungus diseases (plants), Fusicladium effusum, Pecans, Plant morphology, Radiochemistry.

17282-68

**MODE OF ENTRY OF DIPLODIA NATALENSIS AND PHOMOPSIS CITRI INTO FLORIDA ORANGES.**

G E Brown W C Wilson

*Phytopathology 58(6):736-739 REF*

Jun 1968 464.8 P56

Diplodia natalensis, Fungus diseases (plants), Oranges, Phomopsis citri, Tissues.

17283-68

**STUDIES ON THE NECROTIC FLECK DISEASE OF EASTER LILY, LILIUM LONGIFLORUM.**

E L Civerolo

*Diss Abstr Sect B 28(10):3959B*

Apr 1968 Z5055.U49D53

Centrifugation, Hydrogen-ion concentration, Lilium longiflorum, Mosaic (cucumbers), Necrotic fleck, Nucleic acids, Particle size determination, Plant disease transmission, Research, Seedlings, Spectrophotometry, Sucrose, Virus diseases (plants).

17284-68

**EPIDEMIOLOGY OF TOMATO CURLY TOP IN THE YAKIMA VALLEY.**

R L Clark

*Phytopathology 58(6):811-813 REF*

Jun 1968 464.8 P56

Curly top (tomatoes), Epidemiology, Rainfall, Temperature, Tomatoes, Virus diseases (plants).

17285-68

**THE IDENTIFICATION OF SOME CYTOPLASMIC-POLYHEDROSIS VIRUSES.**

J C Cunningham J F Longworth

*J Invertebrate Pathol 11(2):196-202 REF*

Aug 1968 421 J826

Cytoplasm, Electron microscopy, Extracts, Guinea pigs, Polyhedroses, Sedimentation, Serological tests, Virus diseases (insects).

17286-68

**A CANKER CONDITION IN PEACH (PRUNUS PERSICA (L.) BATSCH) INDUCED BY CHILLING AND ITS RELATIONSHIP TO BACTERIAL CANKER (PSEUDOMONAS SYRINGAE VAN HALL).**

J R Davis

*Diss Abstr Sect B 28(11):4375B-4376B*

May 1968 Z5055.U49D53

Bacteria, Canker (peaches), Culture media, Leaves, Peaches, Plant diseases, Plant histology, Plant physiology, Pseudomonas syringae, Seedlings, Temperature.

17287-68

17287-68  
INVESTIGATIONS ON THE MYCOTROPHY OF THE SPRUCE-PICEA EXCELSA (LAM.) L.K. IN POLAND. (TT 65-50356) TRANSL. 16788.

T Dominik  
24 P.

1967  
Anatomy, Fungus diseases (plants), Mycorrhiza, Picea abies, Plant physiology, Research, Tables (data). Translation from Prace Instytutu Badawczego Lesnictwa 209:59-102, 1961. issued by USDA/ONSF

17288-68

OCCURRENCE OF FOMES ANNOSUS IN INTENSIVELY MANAGED YOUNG-GROWTH WESTERN HEMLOCK STANDS.

C H Driver R E Wood

*Plant Dis Rep* 52(5):370-374

May 1968 1.9 P69P

Fomes annosus, Fungus diseases (plants), Growth factors, Plant disease control, Tsuga heterophylla, Wood decay.

17289-68

SUBTERRANEAN SPORULATION BY TWO GRAMINICOLOUS SMUT FUNGI.

R Duran

*Phytopathology* 58(3):390 REF

Mar 1968 464.8 P56

Plant reproduction, Soil fungi, Soil profiles, Spores, Ustilaginales.

17290-68

DIALLEL ANALYSES OF THE INHERITANCE OF RESISTANCE IN COTTON, GOSSYPIMUM HIRSUTUM L. TO RACES OF XANTHOMONAS MALVACEARUM (E.F.S.M.) DOWSON.

K M El-zik

*Diss Abstr Sect B* 28(10):3959B-3960B

Apr 1968 Z5055.U49D53

Assay, Bacteria, Diallel, Environment, Frequency distribution, Genes, Heredity, Immunity, Injections, Leaves, Plant diseases, Plant genetics, Upland cotton, Xanthomonas malvacearum.

17291-68

A BIOCHEMICAL DIFFERENCE BETWEEN HEALTHY BEAN LEAVES RESISTANT AND SUSCEPTIBLE TO THE HALO-BLIGHT DISEASE CAUSED BY PSEUDOMONAS PHASEOLICOLA.

H A S Epton B J Deverall

*Ann Appl Biol* 61(2):255-268 REF

Apr 1968 442.8 AN72

Beans, Biochemistry, Halo blight (beans), Leaves, Linoleic acid, Linolenic acid, Lipids, Plant disease resistance, Pseudomonas phaseolicola.

17292-68

POPULATION DEVELOPMENT OF XIPHINEMA AMERICANUM IN RELATION TO ITS ROLE AS A VECTOR OF TOBACCO RING-SPOT VIRUS.

H Flores R A Chapman

*Phytopathology* 58(6):814-817 REF

Jun 1968 464.8 P56

Cucumbers, Grapes, Nematode vectors, Nematodes, Population, Ring spot (tobacco), Rosa, Tobacco, Virus diseases (plants), Xiphinema americanum.

17293-68

RESEARCH INTO THE OCCURENCE OF ERGOT, CLAVICEPS PURPUREA (FR.) TUL., ON THE MEADOW PANICLE POA PRATENSIS L. (GER)

K Frauenstein

*Z Pflanzenkrankh (pflanzenpathol) Pflanzenschutz* 74(7-8):443-459 REF

Jul 1967 464.8 Z3

Claviceps purpurea, Plant pest control, Poa pratensis, Research.

17294-68

EUTYPELLA CANKER ON SPECIES OF ACER IN NEW YORK STATE.

W J French

*Diss Abstr Sect B* 28(10):3960B

Apr 1968 Z5055.U49D53

Acer, Cytospora, Eutypella parasitica, Host indexing (plants), Humidity, Plant anatomy, Reproduction, Temperature, Tree injuries.

17295-68

COCCOMYCES HETEROPHYLLAE N.SP., HYPODERMATACEOUS FUNGUS FROM THE PERIDERM OF WESTERN HEMLOCK.

A Funk

*Can J Bot* 45(12):2263-2266

Dec 1967 470 C16C

Bark, Coccomyces heterophyllae, Fungus diseases (plants), Tsuga heterophylla. English and French summaries.

Abstract

17296-68

TRANSMISSION OF BARLEY YELLOW DWARF VIRUS ISOLATES FROM MANITOBA BY FIVE SPECIES OF APHIDS.

C C Gill

*Phytopathology* 57(7):713-718 REF

Jul 1967 464.8 P56

Acyrtosiphon dirhodum, Agropyron repens, Aphididae, Bromus inermis, Grain, Macrosiphum avenae, Plant disease transmission, Rhopalosiphum maidis, Rhopalosiphum padi, Schizaphis graminum, Yellow dwarf (barley).

Abstract

17297-68

SEASONAL DEVELOPMENT AND EMERGENCE OF TWO SPECIES OF GALL-FORMING APHIDS, PEMPHIGUS BURSARIUS AND P. NORTONI, ASSOCIATED WITH POPLAR TREES IN CALIFORNIA.

A A Grigarick W H Lange

*Entomol Soc Amer Ann* 61(2):509-514 REF

15 Mar 1968 420 EN82

Aphididae, Pemphigus bursarius, Pemphigus nortoni, Plant galls, Populus, Populus fremonti, Populus nigra.

17298-68

BACTERIAL WILT, PSEUDOMONAS SOLANACEARUM (ERW. SMITH 1896) ERW. SMITH 1914 OF TOMATO IN THE NORTHERN TERRITORY.

J B Heaton C W Benson

*Australian Inst Agr Sci J* 34(1):37-38

Mar 1968 23 AU74

Bacterial diseases (plants), Bacterial wilt (tomatoes), Plant disease resistance, Pseudomonas solanacearum, Tomatoes.

17299-68

CONTROL OF AERIAL CROWN-GALL DISEASE IN CHERRY TREES WITH SPRAY-APPLIED SYSTEMIC FUNGICIDES.

A W Helton R E Williams

*Phytopathology* 58(6):782-787

Jun 1968 464.8 P56

Bacterial diseases (plants), Cherries, Crown galls (fruit), Fungicides, Plant protection, Spraying, Trees.

17300-68

MOVEMENT OF TOBACCO MOSAIC VIRUS WITHIN NICOTIANA GLUTINOSA PLANT GRAFTED WITH TOBACCO. (JA)

T Hino H Yoshii

*Phytopathol Soc Jap Ann* 34(1):61-68 REF F

Jan 1968 464.9 P562

Culture media, Leaves, Mosaic (tobacco), Necrosis, Nicotiana glutinosa, Phloem, Plant disease transmission, Plant diseases, Plant physiology, Plant translocation, Tissue grafting. Abstract in English

17301-68

STUDIES ON THE CHEMOTHERAPY FOR PLANT VIRUS DISEASES. XII. METHODS OF APPLYING ANTIVIRAL CHEMICALS AGAINST INFECTED PLANTS. (JA)

T Hirai T G Yun

*Phytopathol Soc Jap Ann* 24(2):109-113 REF

Mar 1968 464.9 P562

Biochemistry, Chemicals, Drug therapy, Injections, Mosaic (tobacco), Plant physiology, Roots, Seedlings, Spraying, Tomatoes, Virucides, Virus diseases (plants), Virus x (potatoes). Abstract in English

17302-68

ANTAGONISTIC EFFECTS OF ASPERGILLUS NIGER ON MACROPHOMINA PHASEOLI. (ABSTRACT).

D C N Hsi

*Phytopathology* 58(6):729

Jun 1968 464.8 P56

Aspergillus niger, Competition, Fungi, Macrophomina phaseoli, Sorghum.

17303-68

THE DEVELOPMENT OF A SET OF UPLAND COTTON LINES FOR DIFFERENTIATING RACES OF XANTHOMONAS MALVACEARUM.

R E Hunter L A Brinkerhoff L S Bird

*Phytopathology* 58(6):830-832 REF

Jun 1968 464.8 P56

Bacterial diseases (plants), Cotton, Plant breeding, Xanthomonas malvacearum.

17304-68

A PYRENOPHORA-COCHLIOBOLUS (HELMINTHOSPORIUM) DISEASE COMPLEX IN BARLEY.

J A Hutchison J F Schafer

*Plant Dis Rep* 52(5):395

May 1968 1.9 P69P

Bacterial diseases (plants), Barley, Climate, Cochliobolus sativus, Leaves, Microorganisms, Net blotch (barley), Plant diseases, Pyrenophora teres.

17305-68

ON THE DAMAGE OF CERCOSPORA LEAF SPOT OF SUGAR BEETS CAUSED BY CERCOSPORA BETICOLA SACC. (JA)

W Iida K Kudo T Kimigafukuro

*Phytopathol Soc Jap Ann* 34(1):1-6

Jan 1968 464.9 P562

Biochemistry, Cercospora beticola, Copper, Fungicides, Leaf spot (sugar beets), Plant diseases, Plant injuries, Plant physiology, Spraying. Abstract in English.

17306-68

HEAT-INDUCED SUSCEPTIBILITY OF BEANS TO RUST.

H Ikegami

*Phytopathology* 58(6):773-775

Jun 1968 464.8 P56

Fungus diseases (plants), Heat, Lima beans, Plant disease resistance, Rust (beans).

17307-68

PROBLEMS OF CAUSTIC GRAIN IN SCANDINAVIA. (GER)

E A Jamalain

*Z Pflanzenkrankh (pflanzenpathol) Pflanzenschutz* 74(5):302-311

1967 464.8 Z3

Fusarium nivale, Grain, Helminthosporium gramineum, Plant diseases, Tilletia caries, Ustilago avenae, Ustilago hordei.

17308-68

ISOLATION OF POLYRIBOSOME FROM TOBACCO PLANTS INFECTED WITH TOBACCO MOSAIC VIRUS.

Y Kiho

*Jap J Microbiol* 12(2):211-217 REF

Jun 1968 448.8 J273

Mosaic (tobacco), Plant biochemistry, Plant genetics, Ribosomes, Tobacco.

Abstract

17309-68

STUDIES ON VIRUS DISEASES OF STONE FRUITS. I. PEACH NECROTIC RINGSPOT AND PRUNE DWARF VIRUS IN JAPAN. (JA)

K Kishi K Takanashi K Abiko

*Phytopathol Soc Jap Ann* 34(2):143-150 REF

Jul 1968 464.9 P562



Chenopodium amaranticolor, Dwarf disease (prunus), Fruit, Host indexing (plants), Necrosis, Plant disease transmission, Research, Ring spot (peaches), Sap, Temperature, Virus diseases (plants). Abstract in English

17310-68

OCURRENCE OF RUST ON THE ALEPPO PINE IN ISTRIA. (TT 67-51309) TRANSL. 16915.

J Kispatic  
15 P. MAP REF  
1967

Cronartium, Fungus diseases (plants), Pinus halepensis, Plantations, Rust (trees), Taxonomy, Tree diseases, Uredinales. Translation from Sumarski List 1(3):26-38, 1959. issued by USDA/ONSF.

17311-68

THE INHERITANCE OF RESISTANCE TO STEM RUST RACES 56 AND 15B-IL (CAN.) IN THE WHEAT VARIETIES HOPE AND H-44.

D R Knott  
Can J Genet Cytol 10(2):311-320 REF  
Jun 1968 443.8 C16

Breeding, Chromosomes, Hereditary diseases, Immunity, Plant genetics, Stem rust (wheat), Wheat.

17312-68

SURVIVAL OF FOMES ANNOSUS IN THE PRESENCE OF COMPETING FUNGI IN LOBLOLLY PINE ROOTS. (ABSTRACT).

E G Kuhlman  
Phytopathology 58(6):729  
Jun 1968 464.8 P56

Competition, Decomposition, Fomes annosus, Peniophora gigantea, Pinus taeda, Roots, Soil fungi.

17313-68

HISTOCHEMICAL OBSERVATION OF THE HALO ON THE EPIDERMAL CELL WALL OF BARLEY LEAVES ATTACKED BY ERYSIPE GRAMINIS VAR. HORDEI. (ABSTRACT).

H Kunoh S Akai  
Phytopathology 58(6):729-730  
Jun 1968 464.8 P56

Barley, Cell wall, Chemistry, Enzymes, Erysiphe graminis, Fungus diseases (plants), Histology, Leaves.

17314-68

THE ASSOCIATION OF FREE AMINO ACIDS OF COTTON LEAVES WITH RESISTANCE TO XANTHOMONAS MALVACEARUM CAUSED BY THE B4 GENE AND THE INFLUENCE OF NITROGEN AND POTASSIUM NUTRITION.

W G Lipke  
Diss Abstr Sect B 28(10):4022B  
Apr 1968 Z5055.U49D53

Amino acids, Genes, Immunity, Injections, Leaves, Nitrogen, Plant diseases, Plant hardiness, Plant nutrition, Potassium, Reproduction, Upland cotton, Xanthomonas malvacearum.

17315-68

EFFECT OF SOIL TEMPERATURE ON PATHOGENICITY OF PYTHIUM APHANIDERMATUM AND P. MYRIOTYLUM TO RYE AND TOMATO SEEDLINGS. (ABSTRACT).

R H Littrell S M McCarter  
Phytopathology 58(6):730  
Jun 1968 464.8 P56

Fungus diseases (plants), Pythium aphanidermatum, Pythium myriotylum, Rye, Soil temperature, Tomatoes.

17316-68

RESISTANCE TO BROWN SPOT IN FLUE-CURED TOBACCO. (ABSTRACT).

C E Main J F Chaplin  
Phytopathology 58(6):730  
Jun 1968 464.8 P56

Alternaria tenuis, Brown spot (tobacco), Flue-cured tobacco, Fungus diseases (plants), Plant disease resistance.

17317-68

SEROLOGICAL DIFFERENTIATION BETWEEN SPECIES OF RHIZOCTONIA AND CERATOBASIDIUM. (ABSTRACT).

W J Manning A C Runyan D J Morton  
Phytopathology 57(7):647  
Jul 1967 464.8 P56  
Ceratohasidium, Rhizoctonia, Serological tests.

17318-68

THE NUCLEIC ACIDS OF CROWN-GALL TUMORS FROM PINTO BEAN LEAVES AND THEIR SIGNIFICANCE TO CROWN-GALL TUMOR INDUCTION BY AGROBACTERIUM TUMEFACIENS.

M W Meyer  
Diss Abstr Sect B 28(9):3601B  
Mar 1968 Z5055.U49D53  
Agrobacterium tumefaciens, Bacterial diseases (plants), Crown galls (beans), Deoxyribonucleic acid, Kidney beans, Leaves, Nitrogen, Phosphorus, Radioactive tracers, Ribonucleic acid.

17319-68

AN INDIRECT ROLE OF CYTOCHROME OXIDASE IN LOSS OF PRUNE DWARF VIRUS INFECTIVITY IN SQUASH TISSUE HOMOGENATES.

G I Mink  
Phytopathology 57(7):797-798  
Jul 1967 464.8 P56  
Cytochrome oxidase, Prune dwarf (squash), Squash, Tissues, Virus diseases (plants).

17320-68

INHIBITION OF TOBACCO MOSAIC VIRUS INFECTION BY COUMARIN.

M D Mishra A Ghosh S P Raychaudhuri  
Acta Virol 12(2):173-176  
May 1968 448.3 AC85

Chenopodium amaranticolor, Coumarin, Culture media, Datura stramonium, Injections, Mosaic (tobacco), Seedlings, Spraying, Virus diseases (plants).

17321-68

MORPHOLOGY OF STOMATA OF PEACH CULTIVARS DIFFERING IN RESISTANCE TO BACTERIAL SPOT. (ABSTRACT).

J F Moore D H Petersen  
Phytopathology 58(6):730  
Jun 1968 464.8 P56

Bacterial diseases (plants), Bacterial spot (peaches), Peaches, Plant disease resistance, Plant morphology, Stomata.

17322-68

SEROLOGICAL DIFFERENCES BETWEEN APPARENTLY TYPICAL PEPPER AND TOMATO ISOLATES OF XANTHOMONAS VESICATORIA. (ABSTRACT).

D J Morton L M O'Brien W J Manning  
Phytopathology 57(7):647-648  
Jul 1967 464.8 P56

Bacterial diseases (plants), Redpeppers (vegetable), Serological tests, Tomatoes, Xanthomonas vesicatoria.

17323-68

FIRST REPORT ON PLANT VIRUS DISEASES IN LEBANON, JORDAN, AND SYRIA.

F Nienhaus A T Saad  
Z Pflanzenkrankh (pflanzenthol) Pflanzenschutz 74(7/8):459-471  
Jul 1967 464.8 Z3

Agricultural economics, Citrus, Mosaic (alfalfa), Mosaic (cucumbers), Mosaic (tobacco), Vegetables, Virus diseases (plants).

17324-68

STUDIES OF THE SEED-TRANSMISSION OF TOBACCO RINGSPOT VIRUS.

G K Owusu N C Crowley R I B Francki  
Ann Appl Biol 61(2):195-202 REF  
Apr 1968 442.8 AN72

Biological transport, Ring spot (tobacco), Seed-borne plant diseases, Soybeans, Tobacco, Virus

diseases (plants).

Abstract: Age of plant at time of infection was most important factor determining amount of infected seed produced.

17325-68

INVESTIGATIONS OF PURE CULTURE OF MYCORRHIZAL FUNGI OF PINE, PINUS SILVESTRIS L. QK608.0P70P3.

R Pachlewski  
192 P. REF WARSAW. FOREST RESEARCH INSTITUTE  
1967

Culture media, Fungus diseases (plants), Mycorrhiza, Pinus sylvestris, Plant morphology, Tree diseases.

17326-68

SURVIVAL OF ROOT-INFECTING FUNGI IN SOIL. VIII. DISTRIBUTION OF RHIZOCTONIA SOLANI IN VARIOUS PHYSICAL FRACTIONS OF NATURALLY AND ARTIFICIALLY INFESTED SOILS.

G C Papavizas  
Phytopathology 58(6):746-751 REF  
Jun 1968 464.8 P56

Fungus diseases (plants), Rhizoctonia solani, Roots, Soil fungi.

17327-68

THE AUTOECIOUS SPECIES OF PUCCINIA ON HELIANTHEAE IN NORTH AMERICA.

J A Parmelee  
Can J Bot 45(12):2267-2327 REF  
Dec 1967 470 C16C

Fungus diseases (plants), Helianthae, Plant taxonomy, Puccinia, Uredinales. Includes key

Abstract

17328-68

IRON COMPOUNDS AND PLANT NUTRITION.

C A Price  
Annu Rev Plant Physiol 19:239-248 REF  
1968 450 AN78

Chlorosis (plants), Iron compounds, Plant nutrition, Plant nutritional deficiencies, Plant physiology, Research.

17329-68

DUTCH ELM DISEASE FOUND IN SOUTH DAKOTA.

H Randall C M Nagel L S Wood  
Plant Dis Rep 52(5):349,MAP  
May 1968 1.9 P69P

Ceratocystis ulmi, Dieback (ulmus), Laboratories, Pathogen, Plant diseases, Ulmus americana, Wood decay.

17330-68

COMPARATIVE STUDIES CONCERNING TOXICITY AND SELECTIVITY OF STERILIZATION MEASURES FOR SOIL MICROORGANISMS. (GER)

H Reber  
Z Pflanzenkrankh (pflanzenthol) Pflanzenschutz 74(7-8):414-426 REF  
Jul 1967 464.8 Z3

Bactericides, Chemical control (plant diseases), Chloropicrin, Fungus diseases (plants), Methyl bromide, Methyl isothiocyanate, Soil microorganisms, Soil sterilization, Toxicology. English summary

17331-68

COMPARATIVE STUDIES INTO THE RECOLONIZATION OF CHEMICALLY TREATED SOIL. (GER)

H Reber  
Z Pflanzenkrankh (pflanzenthol) Pflanzenschutz 74(7-8):427-438  
Jul 1967 464.8 Z3

Bactericides, Chemical control (plant diseases), Chloropicrin, Fungus diseases (plants), Soil microorganisms, Soil sterilization. English summary

17332-68  
**ECOLOGY OF FUNGI. QK601.0R6.**  
 R K Robinson  
 116 P. LONDON. ENGLISH UNIVERSITIES  
 PRESS LIMITED  
 1967  
 Ecology, Fungi, Plant diseases, Roots, Saprophytes.

17333-68  
**RESPONSE OF RHIZOCTONIA BATATICOLA TO GROWTH REGULATORS, TRACE ELEMENTS AND VITAMINS.**  
 H C Sankhla R L Mathur  
*Indian Phytopathol* 20(2):142-145 REF  
 Jun 1967 464.8 IN2  
 Biochemistry, Culture media, Fungi, Micronutrients, Plant regulators, Rhizoctonia hataticola, Root rot (cotton), Vitamins.

17334-68  
**POSITION AND DEVELOPMENT OF THE CONTROL OF GRAIN DISEASES THROUGH SEED TREATMENT. (GER)**  
 G Schuhmann  
*Z Pflanzenkrankh (pflanzenschutz) Pflanzenschutz* 74(3):155-167 REF  
 Mar 1967 464.8 Z3  
 Chemical control (plant diseases), Grain, Plant physiological diseases, Seed treatment, Seed-borne plant diseases. English summary

17335-68  
**ELECTRON MICROSCOPIC STUDIES ON PLANT VIRUSES. (JA)**  
 E Shikata  
*Phytopathol Soc Jap Ann* 33(3):124-125  
 Jun 1969 464.9 P562  
 Electron microscopy, Enation mosaic (peas), Phytopathology, Research, Virus diseases (plants), Wound tumor virus, Yellow dwarf (potatoes).

17336-68  
**BIOCHEMICAL PROPERTIES OF THE INCREASED PROTEINS IN DISEASED LEAVES OF RICE PLANTS IN THE EARLY STAGE OF INFECTION BY HELMINTHOSPORIUM ORYZAE. (JA)**  
 J Shishiyama T Oguchi S Akai  
*Phytopathol Soc Jap Ann* 34(1):23-27 REF  
 Jan 1968 464.9 P562  
 Amino acids, Aspartic acid, Beta-amylase, Biochemistry, Glutamic acid, Helminthosporium oryzae, Leaves, Plant diseases, Proteins, Rice, Seed germination, Starches. Abstract in English

17337-68  
**THE CHANGE OF PROTEIN FRACTIONS IN DISEASED LEAVES OF RICE PLANTS IN THE EARLY STAGE OF INFECTION BY HELMINTHOSPORIUM ORYZAE. (JA)**  
 J Shishiyama T Oguchi S Akai  
*Phytopathol Soc Jap Ann* 34(1):16-22 REF  
 Jan 1968 464.9 P562  
 Chromatography, Culture media, Electrophoresis, Helminthosporium oryzae, Injections, Leaves, Plant diseases, Plant morphology, Proteins, Rice, Temperature, Time. Abstract in English.

17338-68  
**HISTOPATHOLOGICAL STUDIES OF RED CLOVER ROOTS INFECTED BY FUSARIUM ROSEUM.**  
 W M Siddiqui P M Halisky  
*Phytopathology* 58(6):874-875  
 Jun 1968 464.8 P56  
 Fungus diseases (plants), Fusarium roseum, Histology, Red clover, Research, Roots.

17339-68  
**PATHOGENESIS IN DUTCH ELM DISEASE.**  
 D Singh  
*Diss Abstr Sect B* 28(11):4378B-4379B  
 May 1968 Z5055.U49D53  
 Amino acids, Diehack (ulmus), Injections, Ninhydrin reaction, Nitrogen compounds, Proline, Tree diseases, Xylem.

17340-68  
**MASS SELECTION FOR RESISTANCE TO SELENOPHOMA BROMIGENA IN NORTHERN AND SOUTHERN TYPES OF BROMUS INERMIS.**  
 J D Smith R P Knowles  
*Can J Plant Sci* 47(6):679-681  
 Nov 1967 450 C16  
 Bromus inermis, Fungus diseases (plants), Plant disease resistance, Plant genetics, Selenophoma bromigena.  
 Abstract

17341-68  
**HOT-WATER TREATMENT OF SUGARCANE SEED MATERIAL. A SIMPLE METHOD SUITABLE FOR RURAL AREAS.**  
 K V Srinivasan J T Rao  
*Indian Farming* 18(1):25-26.29  
 Apr 1968 22 IN283  
 Equipment, Fungicides, Plant disease control, Seed treatment, Sugarcane.

17342-68  
**FUNGICIDAL ACTION OF TRIPHENYL TIN HYDROXIDE TOWARD CERCOSPORA BETICOLA ON SUGAR BEET LEAVES.**  
 G F Stallknecht L Calpouzos  
*Phytopathology* 58(6):788-790  
 Jun 1968 464.8 P56  
 Cercospora heticola, Chemical reactions, Fungicides, Fungus diseases (plants), Leaves, Sugar beets, Triphenyltin hydroxide.

17343-68  
**A RAPID TEST FOR AN ANTIFUNGAL SUBSTANCE PRODUCED BY A WOODINHABITING FUNGUS IN CULTURE.**  
 M A Stillwell W A Hodgson  
*Can J Microbiol* 14(7):807-808  
 Jul 1968 448.8 C162  
 Betula alleghaniensis, Biological assay, Culture media, Fungicides, Fungus diseases (plants), Late blight (potatoes), Research, Seed germination.

17344-68  
**LIPID METABOLISM IN CLUBROOT OF CABBAGE.**  
 J O Strandberg  
*Diss Abstr Sect B* 28(11):4379B  
 May 1968 Z5055.U49D53  
 Brassica oleracea, Carbon isotopes, Chromatography, Clubroot (cabbage), Fatty acids, Glucose, Lipids, Metabolism, Plant diseases, Plasmodiophora brassicae.

17345-68  
**THE EFFECT OF SOIL MOISTURE ON CORN STALK ROT.**  
 D R Sumner  
*Phytopathology* 58(6):761-765 REF  
 Jun 1968 464.8 P56  
 Corn, Fungus diseases (plants), Soil moisture, Stem rot (corn), Trichoderma viride.

17346-68  
**FIELD TESTS FOR CONTROL OF RED PINE SEEDLING DISEASES.**  
 J R Sutherland  
*Phytoprotection* 48(2):58-67  
 Jun 1967 464.8 P566  
 Captan, Chemical control (plant diseases), Chemical control (weeds), Nematodes, Pinus resinosa, Plant diseases, Plant physiology, Seed germination, Seedlings, Soil fumigation, Trizone. French summary.

17347-68  
**EVIDENCE FOR MULTIPLICITY REACTIVATION OF ULTRAVIOLET LIGHT IRRADIATED RIBONUCLEIC ACID ISOLATED FROM TOBACCO MOSAIC VIRUS.**  
 T Takahashi T Hayashi Y Kiho  
*Jap J Microbiol* 12(2):187-193 REF  
 Jun 1968 448.8 J273

Mosaic (tobacco), Plant biochemistry, Plant genetics, Ribonucleic acid, Tobacco, Ultraviolet rays, Virology.

Abstract  
 17348-68  
**THE ULTRASTRUCTURE OF OLPIDIUM BRASSICAE. I. FORMATION OF SPORANGIA.**  
 J H M Temmink R N Campbell  
*Can J Bot* 46(8):951-956 REF  
 Aug 1968 470 C16C  
 Lettuce, Olpidium brassicae, Plant morphology, Plant physiology, Roots, Sporangia.

17349-68  
**EFFECTS OF MAIZE DWARF MOSAIC ON GRAIN SORGHUM PERFORMANCE. (ABSTRACT).**  
 R W Toler A J Bockholt R H Leisy  
*Phytopathology* 58(6):731  
 Jun 1968 464.8 P56  
 Dwarf disease (corn), Epidemiology, Mosaic (corn), Sorghum, Virus diseases (plants).

17350-68  
**A NEW STRAIN OF POTATO VIRUS Y ISOLATED BURLEY TOBACCO IN JAPAN. (JA)**  
 K Tomaru A Udagawa  
*Phytopathol Soc Jap Ann* 34(2):77-84 REF  
 Mar 1968 464.9 P562  
 Bush redpeppers (vegetable), Epidemiology, Injections, Leaves, Temperature, Time, Virus diseases (plants), Virus Y (tobacco). Abstract in English

17351-68  
**SOME PROPERTIES OF A CUCUMBER MOSAIC VIRUS STRAIN ISOLATED FROM PRUNUS SPP.**  
 J H Tremaine  
*Phytopathology* 58(6):797-801 REF  
 Jun 1968 464.8 P56  
 Cucumbers, Mosaic (cucumbers), Properties, Prunus, Virus diseases (plants).

17352-68  
**STIMULATION OF TOBACCO MOSAIC VIRUS-INDUCED LESIONS ON BEAN BY FLUORIDE.**  
 M Treshow G Dehn F M Harner  
*Phytopathology* 57(7):756-758  
 Jul 1967 464.8 P56  
 Beans, Fluorides, Mosaic (beans).

Abstract

17353-68  
**STUDIES AND OBSERVATIONS ON ARMILLARIA MELLEAE (VAHL.) QUEL. AS THE CAUSE OF MASS DYING-OFF OF FOREST STANDS. (TT 66-57031) TRANSL. 16925.**  
 Z Twarowski I Twarowska  
 61 P. REF  
 1967

Armillaria mellea, Economics, Forests, Fungi, Fungus diseases (plants), Research, Tree injuries, Translation from Prace Instytutu Badawczego Lesnictwa 192:3-63 1959. issued by USDA/ONSF

17354-68  
**THE EFFECT OF HOT WATER TREATMENT ON A VIRUS OF OPUNTIA EXALTATA.**  
 F A Van Der Meer  
*Neth J Plant Pathol* 73(2):58-59  
 1967 464.8 T44  
 Hot water treatment (plants), Opuntia exaltata, Plant abnormalities, Virus diseases (plants). Dutch summary

17355-68  
**INHIBITION OF THE TRANSMISSION BY APHIDS OF SOME PLANT VIRUSES BY OIL PULVERIZATION. (FR)**  
 J Vanderveken N Vilain  
*Ann Epiphyt* 18:125-132  
 1967 464.9 F84AN  
 Aphididae, Emulsions, Insect vectors, Mosaic (beans), Mosaic (sugar beets), Myzus persicae,



Oils, Plant disease transmission, Virus diseases (plants), Virus y (potatoes), Yellow mosaic (beans). English and German summaries

17356-68

**THE ELECTROPHORESIS AND HISTOCHEMICAL LOCALIZATION OF CERTAIN RESPIRATORY ENZYMES OF TOBACCO INFECTED BY PHYTOPHTHORA PARASITICA VAR. NICOTIANAE.**

J A Veech

*Diss Abstr Sect B* 28(10):3964B

Apr 1968 Z5055.U49D53

Dehydrogenases, Electrophoresis, Enzymes, Fungus diseases (plants), Glucose, Histochemistry, Immunity, Peroxidases, Phytophthora parasitica, Plant respiration, Spectrophotometry, Tobacco.

17357-68

**FACTORS LIMITING THE SURVIVAL OF ASCOCHYTA SPP. OF PEAS IN SOIL.**

V R Wallen J Jeum

*Can J Bot* 46(10):1279-1286 MAP

Oct 1968 470 C16C

Ascochyta pinodella, Ascochyta pinodes, Ascochyta pisi, Fungus diseases (plants), Peas, Temperature, Time.

17358-68

**VIRUS DISEASES IN ORNAMENTAL PLANTS. (GER)**

B Weil

*Z Pflanzenkrankh (pflanzenpathol) Pflanzenschutz* 74(3):167-175

Mar 1967 464.8 Z3

Agricultural economics, Annual plants, Dianthus caryophyllus, Ornamental plants, Perennial plants, Phytopathology, Virus diseases (plants). English summary

17359-68

**HYBELLE AND SANIBEL, MULTIPLE DISEASE RESISTANT F1 HYBRID CABBAGES.**

P H Williams J C Walker G S Pound

*Phytopathology* 58(6):791-796

Jun 1968 464.8 P56

Cabbage, Fusarium, Plant breeding, Plant disease resistance, Rhizoctonia.

17360-68

**FUNGISTATIC PROPERTIES OF SOILS EXPOSED TO DIFFERENT ANTECEDENT ENVIRONMENTS.**

G M Willis L E Williams

*Can J Microbiol* 14(7):755-761 REF

Jul 1968 448.8 C162

Agar, Assay, Bipolaris sorokiniana, Environment, Fungus diseases (plants), Nutrition, Oats, Roots, Soil fungi.

17361-68

**DELAYED SYMPTOM EXPRESSION OF FOMES ANNOSUS ROOT ROT OF PINE. (ABSTRACT).**

W Witcher C L Lane L W Baxter

*Phytopathology* 58(6):732

Jun 1968 464.8 P56

Fomes annosus, Fungus diseases (plants), Pinus, Root rot (pinus).

17362-68

**BIOCHEMICAL EXAMINATION OF STRAINS OF TOBACCO MOSAIC VIRUS MUTANTS. (GER)**

H G Wittmann

*Z Pflanzenkrankh (pflanzenpathol) Pflanzenschutz* 74(3):189-195

Mar 1967 464.8 Z3

Electrophoresis, Mosaic (tobacco), Proteins, Ribonucleic acid, Virus diseases (plants), Virus mutation. English summary

17363-68

**WOOD INHABITING FUNGI IN A PINE PLANTATION IN AUSTRALIA.**

O Yaartaja

*Mycopathol Mycol Appl* 34(1):81-89 REF

19 Jan 1968 450 M994

Fungi, Fungus diseases (plants), Pinus radiata, Stereum sanguinolentum. Fungi potentially control agents of S. sanguinolentum.

Abstract

17364-68

**SUSCEPTIBILITY OF DARWIN HYBRID TULIPS TO TULIP BREAKING VIRUS.**

A Yamaguchi

*Phytopathology* 58(6):878-879

Jun 1968 464.8 P56

Mosaic (tulipa), Plant breeding, Plant disease resistance, Tulipa, Virus diseases (plants).

17365-68

**PENETRATION AND COLONIZATION OF RESISTANT AND SUSCEPTIBLE SOYBEAN PODS BY DIAPORTHE SOJAE. (ABSTRACT).**

F A Yelen H W Crittenden

*Phytopathology* 57(7):649

Jul 1967 464.8 P56

Crop varieties, Diaporthe sojae, Fungus diseases (plants), Plant disease resistance, Soybeans.

17366-68

**THE TERM HYPERSENSITIVE REACTION IS INADEQUATE TO EXPLAIN THE NECROTIC LESION FORMATION OF NICOTIANA GLUTINOSA INFECTED WITH TOBACCO MOSAIC VIRUS. (JA)**

H Yoshii

*Phytopathol Soc Jap Ann* 34(1):69-72 REF

Jan 1968 464.9 P562

Colletotrichum lindemuthianum, Injections, Leaves, Mosaic (tobacco), Necrosis, Nicotiana glutinosa, Plant abnormalities, Plant cytology, Plant translocation, Puccinia graminis, Virus diseases (plants). Abstract in English.

17367-68

**INTERNATIONAL DISPERSAL OF FUNGI.**

J C Zadoks

*Neth J Plant Pathol* 73(SUP.1):61-80 REF

1967 464.8 T44

Fungi dissemination, Fungus diseases (plants), Phytopathology, Plant disease control, Plant quarantine, Plant translocation.

17368-68

**A COMPARISON OF CELL WALL COMPOSITION IN BANANA PLANTS RESISTANT OR SUSCEPTIBLE TO FUSARIUM OXYSPORUM F. SP. CUBENSE.**

G E Zaroogian C H Beckman

*Phytopathology* 58(6):733-735 REF

Jun 1968 464.8 P56

Bananas, Biological assay, Fungus diseases (plants), Fusarium oxysporum, Plant disease resistance.

## ARTHROPODS

17369-68

**CONTROL OF THE WHITE MITE ON COTTON WITH VARIOUS POWDER AND DUST PRODUCTS. (POR)**

P R Almeida R D Cavalcante A A Holanda

*Biologico* 33(11):251-253

Nov 1967 442.8 B529

Chemical control (insects), Cotton, Ddt, Mites, Pesticides.

17370-68

**TOXICITY OF PETKOLIN AGAINST COTTON APHIDS (HEMIPTERA: APHIDIDAE).**

M Anwarullah S S Qureshi S H Ashrafi

*Pakistan J Sci Indus Res* 10(4):251-253 REF

Oct 1967 475 P174

Aphis gossypii, Chemical control (insects), Cotton, Forests, Insecticides, Plant pest control, Vegetables.

Abstract

17371-68

**THE AETIOLOGY AND DEVELOPMENT OF DAMAGE IN YOUNG FRUIT TREES INFESTED WITH FRUIT TREE RED SPIDER MITE, PANONYCHUS ULMI (KOCH).**

D J Avery J B Briggs

*Ann Appl Biol* 61(2):277-288 REF

Apr 1968 442.8 AN72

Apples, Fruit, Panonychus ulmi, Photosynthesis, Plant injuries, Plums, Trees.

Abstract: Radioactivity was detected in the growing regions of plants remote from mature leaves on which <sup>14</sup>C-labelled mites were confined.

17372-68

**A COMPLEX OF FUNGI MUTUALISTICALLY INVOLVED IN THE NUTRITION OF THE AMBROSIA BEETLE XYLEBORUS FERRUGINEUS.**

J M Baker D M Norris

*J Invertebrate Pathol* 11(2):246-250

Aug 1968 421 J826

Cephalosporium, Culture media, Fungi, Fungus diseases (insects), Fusarium solani, Injections, Insect nutrition, Platypodidae, Xylehorus ferrugineus.

17373-68

**SOME OBSERVATIONS ON VECTORS AND TRANSMISSION OF TOBACCO ETCH VIRUS.**

H R Boyce C D McKeen

*Entomol Soc Ontario Proc* 97:68-71

1966 420 ON8

Etch (tobacco), Insect pests, Insect vectors, Macrosiphum euphorbiae, Myzus persicae, Physalis heterophylla, Plant disease transmission, Tobacco.

17374-68

**BIOLOGICAL CONTROL. IN: KILGORE, W. W. AND DOUTT, R. L., PEST CONTROL: BIOLOGICAL, PHYSICAL, AND SELECTED CHEMICAL METHODS. SB950.0K5.**

R L Douth

3-30 REF NEW YORK, ACADEMIC PRESS

1967

Biological control (pests), Ecology, Insect histology, Insect pests, Parasitism, Taxonomy.

17375-68

**A MONOGRAPH OF THE IMMATURE STAGES OF ORIENTAL TIMBER BEETLES (CERAMBYCIDAE) Q1596.0C40D8.**

E A J Duffy

434 P., LONDON, BRITISH MUSEUM (NATURAL HISTORY)

1968

Cerambycidae, Physiology, Plants, Pupae, Research.

17376-68

**INSECTS ATTACKING ROSE HIPS IN EUROPE.**

O Eichhorn

*Commonwealth Inst Biol Contr Tech Bull* 8:83-102, MAP REF

Mar 1967 423.92 C733T

Insect pests, Rosa rubiginosa, Rose hips. Possible agents of biological control of r. rubiginosa

Abstract

17377-68

**COMPARATIVE APHID-TRANSMISSIBILITY OF BEAN YELLOW MOSAIC VIRUS FROM PEA AND BEAN CORRELATED WITH CYTOPLASMIC INCLUSIONS. (ABSTRACT).**

I R Evans F W Zettler

*Phytopathology* 58(6):727-728

Jun 1968 464.8 P56

Aphis craccivora, Beans, Cytoplasm, Insect vectors, Myzus persicae, Peas, Virus diseases (plants), Yellow mosaic (beans).

17378-68

**A COMPARISON OF SEASON-LONG COTTON-PEST-CONTROL PROGRAMS IN CALIFORNIA DURING 1966.**

L. A. Falcon R. Van Den Bosch C. A. Ferris L. K. Stromberg L. K. Etzel R. E. Stinner T. F. Leigh  
*J Econ Entomol* 61(3):633-642 REF  
Jun 1968 421 J822  
Biochemistry, Cotton, Insect pests, Insecticides, Pest control, Temperature, Weather. Species were: *Trichoplusia lygus hesperus*, *T. ni*, *Heliothis zea*, *Orius tristicolor*, *Collops vittatus*, *Nabis americana*, *Chrysopa carnea*

17379-68

RESISTANCE OF BARLEY (*HORDEUM VULGARE* L. EMEND. LAM.) TO CEREAL LEAF BEETLE (*OULEMA MELANOPUS* L.).

S. K. Hahn  
*Crop Sci* 8(4):461-464  
Aug 1968 64.8 C883

Barley, Eggs, Genetics, Inheritance, Laboratories, *Oulema melanopus*, Research.

17380-68

THE ROLE OF SECONDARY PLANT SUBSTANCES IN THE FOOD SPECIFICITY OF THE COLORADO POTATO BEETLE.

T. H. Hsiao G. Fraenkel  
*Entomol Soc Amer Ann* 61(2):485-493 REF  
15 Mar 1968 420 EN82

Caterpillars, Chemical control (insects), Chrysomelidae, Insect adaptation, Insect morphology, Insect nutrition, *Leptinotarsa decemlineata*, Plant composition, Plant pest resistance, Solanaceae.

17381-68

SELECTION AND SPECIFICITY OF THE COLORADO POTATO BEETLE FOR SOLANACEOUS AND NONSOLANACEOUS PLANTS.

T. H. Hsiao G. Fraenkel  
*Entomol Soc Amer Ann* 61(2):493-503 REF  
15 Mar 1968 420 EN82

*Asclepias syriaca*, *Asclepias tuberosa*, *Capsella bursa-pastoris*, Caterpillars, Chrysomelidae, Insect adaptation, Insect morphology, Insect nutrition, *Lactuca sativa*, *Leptinotarsa decemlineata*, Plant composition, Solanaceae.

17382-68

ISOLATION OF PHAGOSTIMULATIVE SUBSTANCES FROM THE HOST PLANT OF THE COLORADO POTATO BEETLE.

T. H. Hsiao G. Fraenkel  
*Entomol Soc Amer Ann* 61(2):476-484 REF  
15 Mar 1968 420 EN82

Chemical control (insects), Chrysomelidae, Insect behavior, Insect nutrition, *Leptinotarsa decemlineata*, Potatoes, Stimulants.

17383-68

OCCURRENCE OF HARMFUL INSECTS IN DIRECT SOWN PADDY FIELD IN WARMER REGIONS AND THEIR CONTROL. MAINLY ON THE ECOLOGY OF INSECTS WHICH CARRY PADDY VIRUS. TRANSL. 16911.

T. Kayoji  
17 P.  
Field crops, Insect control, Insect ecology, Insect pests, Insect vectors, Rice, Transplanting, Virus diseases (plants). Translation from *Agriculture horticulture*, 39(5):785-790, 1964, translated by Kazuko Nagatomi.

17384-68

STUDIES ON THE ECOLOGY OF RICE GREEN CATERPILLAR. I. ON THE HABIT OF PROGRESS IN THE NORTH PART OF HOKKAIDO (KAMIKAWA AREA). II. ON THE ACTIVE TIME OF ADULTS BY NIGHT. III. ON THE RELATION BETWEEN THE ACTIVITY OF ADULTS BY NIGHT AND WEATHER. TRANSL. 16696.

H. Kihata H. Inoue  
16 P.  
Caterpillars, Insect behavior, Insect ecology, Insect pests, Light traps, Research, Rice, Tables (data), Weather. Translation from *Ann. Rpt. Soc. Plant Protect. North Japan*, 15:87-93, 1964, translated by Takashi Ogawa.

17385-68

ECOLOGY AND CONTROL OF SMALL BROWN PLANTHOPPER (*LAODELPHAX STRIATELLUS* FALLEN). TRANSL. 16695.

R. Kishimoto  
12 P. REF  
Chemicals, Ecology, Hibernation, Insect control, *Laodelphax striatellus*, Morphology, Research, Rice, Transplanting. Translation from *Shokuhutsu Boki* 20(3):126-130 translated by Takashi Ogawa

17386-68

MICROBES AND TOXIC CHEMICALS IN THE STRUGGLE AGAINST PLANT PESTS. (JPRS 44,489) TRANSL. 16903.

N. A. Krasil'nikov  
14 P. REF  
26 Feb 1968

Bacteria, Bacterial diseases (plants), Biochemistry, Biological control (pests), Chemical control (pests), Fungus diseases (plants), Insect pests, Insect vectors, Pesticides, Plants, Toxins. Translation from *Sel'skokhozyaystvennaya biologiya* 6:857-860, 1967, issued by CFSTI.

17387-68

SEASONAL ABUNDANCE OF INSECT PESTS AND VIRUS DISEASES IN THE RICE FIELD OF SEEDLING CULTIVATION. TRANSL. 16906.

K. Kumamoto  
6 P.  
Field crops, Insect pests, Plant injuries, Rice, Seedlings, Surveys, Temperature, Tillage, Virus diseases (plants), Weather. Translation from *Assoc. Plant Protect. Kyushu Proc.* 8: 33-35, 1962, translated by Takashi Ogawa

17388-68

EMERGENCE AND DAMAGE OF WHITE-BACK PLANTHOPPERS AND BROWN PLANTHOPPERS, AND DAMAGE-PREVENTING MEASURES. TRANSL. 16598.

E. Kuno  
16 P.  
Chemical control (insects), Cicadellidae, Ecology, Environment, Insecticides, Plant injuries, Rice, Surveys. Translation from *Agriculture and Horticulture* 39(9):1411-1415, 1965, translated by Mary Ellen Rhoades

17389-68

A COMPARISON OF PREDATOR POPULATIONS IN COTTON UNDER DIFFERENT CONTROL PROGRAMS IN MISSISSIPPI.

M. L. Laster J. R. Brazzel  
*J Econ Entomol* 61(3):714-719 REF  
Jun 1968 421 J822  
Cotton, Crops, Dosage, Geocoris, Insect control, Insect pests, Insecticide application, Insecticides, *Oxyopes salticus*, Population, Predaceous insects, Research.

17390-68

FALL ARMYWORM RESISTANCE IN PEARL MILLET.

D. B. Leuck C. M. Taliaferro R. L. Burton G. W. Burton M. C. Bowman  
*J Econ Entomol* 61(3):693-695  
Jun 1968 421 J822  
Antibiosis, Breeding, Immunity, Pearl millet, Plant extracts, Plant hardiness, Seedlings, Spodoptera frugiperda.

17391-68

EPIPHYTOLOGY OF ONION YELLOW DWARF.

R. Jr. Louie  
*Diss Abstr Sect B* 28(10):3961B  
Apr 1968 Z5055.U49D53  
Apididae, Economics, Epiphytology, Hibernation, Insect control, Insect dissemination, Insect traps, Maleic hydrazide, Plant disease control, Plant disease transmission, Seedlings, Virus diseases (plants), Yellow dwarf (onions).

17392-68

EFFECTIVENESS AND PERSISTENCE OF LOW DOSAGES OF AZINPHOSMETHYL FOR CONTROL OF THE CODLING MOTH.

H. F. Madsen K. Williams  
*J Econ Entomol* 61(3):878-879  
Jun 1968 421 J822

Apples, Azinphosmethyl, Biochemistry, Carposcapa pomonella, Chemical control (insects), Dosage, Fruit, Insect pests, Insecticide application, Insecticides, Leaves, Spraying.

17393-68

OBSERVATIONS ON INSECTS ATTACKING WILD RICE IN MANITOBA.

J. C. E. Melvin  
*Entomol Soc Manitoba Proc* 22:6-11  
1966 420 EN88  
*Apamea apamiformis*, Beneficial insects, Insect biology, Insect pests, Wildrice.  
Abstract

17394-68

EFFECT OF AUTUMN INSECTICIDE APPLICATION ON THE CONTROL OF THE GREEN RICE LEAFHOPPER OF THE LAST GENERATION. TRANSL. 16918.

T. Miyazawa T. Yanagi  
4 P.  
Cicadellidae, Insect vectors, Insecticide application, Insecticides, Plant disease transmission, Rice, Temperature, Virus diseases (plants), Weather, Yellow dwarf (rice). Translation from *Kanto-Tosan Plant Protect. Soc. Proc.* 10:46, 1963

17395-68

ELECTROMAGNETIC ENERGY. IN: KILGORE, W. W. AND DOUTT, R. L., PEST CONTROL; BIOLOGICAL, PHYSICAL, AND SELECTED CHEMICAL METHODS. SB950.0K5.

S. O. Nelson  
89-145 REF NEW YORK, ACADEMIC PRESS  
1967  
Electromagnetic waves, Lethal factors, Light traps, Pest control, Photoperiodism, Radiation, Ultraviolet rays.

17396-68

THE DISTRIBUTION OF RICE STEM BORER IN THE RICE STUBBLES, WITH SPECIAL REFERENCE TO THE POSSIBILITY OF ITS DISPERSION FROM THE FRAME FOR DESICCATING REAPED RICE PLANTS. TRANSL. 16893.

A. Otake S. Oda  
9 P.  
Hibernation, Insect dissemination, Insects, Laboratories, Larvae, Plant injuries, Research, Rice. Translation from *Assoc. Plant Protect. Hukuriku Proc.* 10:9-11 translated by Y. Ito

17397-68

CHANGES IN RELATIVE VIRUS CONCENTRATION IN ENDRINA INIMICA IN RELATION TO ITS ABILITY TO TRANSMIT WHEAT STRIATE MOSAIC VIRUS.

Y. C. Paliwal  
*Phytopathology* 58(3):386-387  
Mar 1968 464.8 P56  
*Endrina inimica*, Insect vectors, Striate mosaic (wheat), Temperature, Wheat.

17398-68

ESTABLISHMENT OF A NURSERY FOR EVALUATION OF RESISTANCE OF STRAINS OF WHEAT TO THE WHEAT STEM SAWFLY.

L. K. Peterson H. McKenzie N. D. Holmes  
*J Econ Entomol* 61(3):836-838  
Jun 1968 421 J822  
*Cephus cinctus*, Immunity, Insect traps, Mortality, Nurseries, Plant hardiness, Temperature, *Triticum aestivum*, Weather, Wheat.

17399-68

A PRELIMINARY STUDY OF CORN STUNT VECTOR POPULATIONS IN RELATION TO CORN PLANTING DATES IN MISSISSIPPI. NOTES ON DISEASE INCIDENCE AND SEVERITY.

H. N. Pitre  
*J Econ Entomol* 61(3):847-849 REF  
Jun 1968 421 J822



Graminella nigrifrons, Insect vectors, Planting, Population, Research, Stunt (corn), Temperature, Virus diseases (plants), Weather.

**17400-68**

PRELIMINARY DATA ON THE ECOLOGY OF THE COFFEE WORM ARACERUS FASCICULATUS DE GEER. (POR)

D Puzzi H F Pcreira

*Biologico* 33(5):97-101

May 1967 442.8 B529

Aracercus fasciculatus, Coffee, Curculionidae, Insect ecology.

**17401-68**

PERCENTAGE OF VIRULIFEROUS LEAFHOPPERS COLLECTED FROM RICE FIELDS AFFECTED WITH YELLOW DWARF. (CONT.) TRANSL. 16916.

A Shinkai

5 P.

Cicadellidae, Insecticides, Insects, Research, Rice, Sampling (statistics), Yellow dwarf (rice). Translation from Kanto-Tosan Plant Protect. Soc. Proc. 8:12 translated by Kenji Nishimura

**17402-68**

INTEGRATED CONTROL. IN: KILGORE, W. W. AND DOUTT, R. L., PEST CONTROL; BIOLOGICAL, PHYSICAL, AND SELECTED CHEMICAL METHODS. SB950.0K5.

R F Smith R Van Den Bosch

295-340 REF NEW YORK, ACADEMIC PRESS

1967

Crop yields, Ecology, Injuries, Insect evolution, Insecticides, Integrated control (insects), Population statistics.

**17403-68**

CONSTITUENTS OF THE COTTON BUD. XI. STUDIES OF A FEEDINGSTIMULANT COMPLEX FROM FLOWER PETALS FOR THE BOLL WEEVIL.

R F Struck J Frye Y F Shealy P A Hedin A C

Thompson

*J Econ Entomol* 61(3):664-667

Jun 1968 421 J822

Anthonomus grandis, Chromatography, Feeding, Lead acetate, Plant hudding, Plant extracts, Precipitation, Research, Stimulants, Upland cotton.

**17404-68**

STUDIES ON THE OPTIMUM CONCENTRATION OF SPRAY LIQUID OF DIPTEREX FOR SMALL RICE LEAF MINER CONTROL. TRANSL. 16728.

S Takano S Iwamoto

4 P.

Chemical control (insects), Insecticides, Research, Rice, Spraying, Surveys, Trichlorfon. Translation from Kanto-Tosan Plant Protect. Soc. 8:45 translated by h. Kazano

**17405-68**

MICROBIAL PESTICIDES. IN: KILGORE, W. W. AND DOUTT, R. L., PEST CONTROL; BIOLOGICAL, PHYSICAL, AND SELECTED CHEMICAL METHODS. SB950.0K5.

Y Tanada

31-88 REF NEW YORK, ACADEMIC PRESS

1967

Biological transport, Chemical control (insects), Environment, Parasitic insects, Pest control, Pesticides, Toxicology.

**17406-68**

MORPHOLOGICAL AND BIOLOGICAL STUDIES OF THYSANOPTEROUS INSECTS ON RICE PLANTS. TRANSL. 16727.

T Tanaka

11 P.

Biology, Food plants, Hibernation, Insect pests, Morphology, Plant injuries, Research, Rice, Thysanoptera. Translation from Oyo Konchu. 7(3):125-133

**17407-68**

INTRA-SPECIFIC MECHANISMS WITH SPECIAL REFERENCE TO APHID POPULATIONS.

M J Way

*Roy Entomol Soc London Symp* 4:18-36 REF

1968 420 R81

Aphididae, Crops, Hibernation, Insect behavior, Insect control, Insect migration, Laboratories, Physiology, Population statistics, Research.

**17408-68**

ANTIFEEDANTS. IN: KILGORE, W. W. AND DOUTT, R. L., PEST CONTROL; BIOLOGICAL, PHYSICAL, AND SELECTED CHEMICAL METHODS. SB950.0K5.

D P Wright

287-293 REF NEW YORK, ACADEMIC PRESS

1967

Carbamates, Crop yields, Extracts, Histology, Pest control.

**17409-68**

APPENDIX TO PEST OF CROPS IN WARM CLIMATES AND THEIR CONTROL. V. CONTROL MEASURES (APPENDIX TO SUPPLEMENT 7, 2ND ENLARGED AND REVISED EDITION), 423 W99AE.

R Wyniger

162P

1968

Chemicals, Climate, Crops, Insect control, Insect pests.

**NEMATODES****17410-68**

LESION NEMATODE INJURY TO CABBAGE. (ABSTRACT).

J R Acedo R A Rohde

*Nematologica* 14(1):1

1968 436.8 N342

Cabbage, Histology, Nematodes, Phenol compounds, Plant injuries, Pratylenchus penetrans.

**17411-68**

INHERITANCE OF RESISTANCE TO HETERODERA AVENAE IN BARLEY.

K Andersen S Andersen

*Nematologica* 14(1):128-130

1968 436.8 N342

Barley, Genes, Heterodera avenae, Nematodes, Plant genetics, Plant nematode resistance, German summary

**17412-68**

VARIATION IN INFECTION ABILITY OF CYSTS OF HETERODERA AVENAE.

K Andersen

*Nematologica* 14(1):149-150

1968 436.8 N342

Cysts, Heterodera avenae, Larvae, Nematodes, Soils.

**17413-68**

ELECTRON MICROSCOPIC OBSERVATIONS OF CATENARIA SP., A NEMATOPHAGOUS FUNGUS. (ABSTRACT).

S Badgett W Birchfield

*Phytopathology* 58(6):725

Jun 1968 464.8 P56

Catenaria, Electron microscopes, Fungi, Microscopy, Nematodes, Parasitism.

**17414-68**

ASSAYS OF NATURAL POPULATIONS OF CERTAIN PLANT-PARASITE NEMATODES AS INFLUENCED BY STORAGE CONDITIONS AND EXTRACTION PROCEDURES. (ABSTRACT).

K R Barker C J Nusbaum W F Congleton

*Nematologica* 14(1):3

1968 436.8 N342

Nematodes, Parasitism, Plant extracts, Population statistics, Soil temperature, Storage.

**17415-68**

SEASONAL POPULATION DYNAMICS OF BELONOLAIMUS LONGICAUDATUS, MELOIDOGYNE INCOGNITA, PRATYLENCHUS

ZEAE, TRICHODORUS CHRISTIEI AND TYLENCHORHYNCHUS CLAYTONI. (ABSTRACT).

K R Barker

*Nematologica* 14(1):2-3

1968 436.8 N342

Belonolaimus longicaudatus, Demography, Ecology, Meloidogyne incognita, Nematodes, Pratylenchus zcae, Trichodorus christiei, Tylenchorhynchus claytoni.

**17416-68**

INOCULATION TRAIL WITH MELOIDOGYNE JAVANICA ON OKRA (ABELMOSCHUS ESCULENTUS).

R B S Birat

*Nematologica* 14(1):155-156

1968 436.8 N342

Injections, Larvae, Meloidogyne javanica, Microscopy, Nematodes, Okra, Soils, Tomatoes.

**17417-68**

SOME EFFECTS OF PRATYLENCHUS BRACHYURUS UPON SPANISH PEANUTS. (ABSTRACT).

T E Boswell

*Nematologica* 14(1):3-4

1968 436.8 N342

Fungicides, Nematocides, Nematodes, Peanuts, Pentachloronitrobenzene, Plant injuries, Pratylenchus brachyurus.

**17418-68**

TAXONOMY LIFE CYCLE AND HOST RANGE OF HETERODERA MEXICANA N. SP. (NEMATODA HETERODERIDAE).

V A Campos

*Diss Abstr Sect B* 28(11):4375B

May 1968 Z5055.U49D53

Cysts, Greenhouse culture, Heterodera mexicana, Heterodera rostochiensis, Heterodera tabacum, Morphology, Nematodes, Potatoes, Taxonomy, Temperature, Time.

**17419-68**

SUPPLY OF OXYGEN DURING HATCHING OF THE NEMATODE MELOIDOGYNE JAVANICA UNDER NON-COMPETITIVE CONDITIONS.

N Collis-George H R Wallacc

*Australian J Biol Sci* 21(1):21-35 REF

Feb 1968 442.8 AU72

Animal physiology, Competition, Hatch, Larvae, Meloidogyne javanica, Nematodes, Oxygen.

**17420-68**

VECTOR-EFFICIENCY OF XIPHINEMA INDEX IN THE TRANSMISSION OF GRAPEVINE FAN-LEAF VIRUS.

S Das D J Raski

*Nematologica* 14(1):55-62 REF

1968 436.8 N342

Fanleaf (grapes), Grapes, Nematode vectors, Soil temperature, Virus diseases (plants), Xiphinema index, German summary

**17421-68**

OCCURRENCE OF HETERODERA GLYCINES FROM THE GOLDEN ISLAND, GIZA, U. A. R.

K A Diab

*Nematologica* 14(1):148

1968 436.8 N342

Cowpeas, Heterodera glycines, Meloidogyne incognita, Nematodes, Plant galls, Roots.

**17422-68**

THE UTILITY OF POLYACRYLAMIDE-GEL ELECTROPHORESIS FOR DISTINGUISHING BETWEEN SPECIES OF MELOIDOGYNE AND SHOWING TAXONOMIC RELATIONSHIPS. (ABSTRACT).

D W Dickson J N Sasser D Husingh

*Nematologica* 14(1):5

1968 436.8 N342

Electrophoresis, Enzymes, Meloidogyne, Nematodes, Parasitism, Proteins, Taxonomy.

17423-68

17423-68

CLUMPING OF THE PLANT PARASITIC NEMATODE DITYLENCHUS DIPSACI IN WATER. C C Doncaster J M Webster  
*Nematologica* 14(1):131-136  
1968 436.8 N342

Behaviorism, Ditylenchus dipsaci, Parasitism, Plant nematodes, Water. German summary

17424-68

THERMOTROPIC RESPONSE OF PRATYLENCHUS PENETRANS AND DITYLENCHUS DIPSACI. (ABSTRACT).  
M A El-Sherif W F Mai

*Nematologica* 14(1):5-6

1968 436.8 N342

Agar, Biochemistry, Ditylenchus dipsaci, Heat, Nematodes, Pratylenchus penetrans, Temperature.

17425-68

RESISTANCE OF CUCUMIS SPECIES TO ROOT-KNOT NEMATODE, MELOIDOGYNE INCOGNITA ACRITA. (ABSTRACT).

G Fassulintj

*Nematologica* 14(1):6

1968 436.8 N342

Cucumbers, Meloidogyne incognita, Nematodes, Plant nematode resistance, Roots.

17426-68

PHYTOPATHOLOGICAL CONSEQUENCES OF CHANGING AGRICULTURAL METHODS. II. CEREALS.

W Feckes

*Neth J Plant Pathol* 73(SUP.1):97-115

1967 464.8 T44

Barley, Mechanization, Nematodes, Oats, Plant breeding, Plant disease control, Plant pest control, Plant protection, Septoria nodorum, Wheat.

17427-68

ON THE CLASSIFICATION AND LIFE HISTORY OF FERGUSOBIA CURRIE (SPHAERULARIIDAE: NEMATODA). (ABSTRACT).

J M Fisher W R Nickle

*Nematologica* 14(1):6-7

1968 436.8 N342

Eucalyptus, Eucalyptus camaldulensis, Fergusobia curriei, Life cycle, Nematodes, Parasitism, Taxonomy.

17428-68

POPULATION PATTERNS OF NEMATODES IN LAKE CHAMPLAIN. (ABSTRACT).

K D Fisher

*Nematologica* 14(1):7

1968 436.8 N342

Ecology, Nematodes, Parasitism, Population statistics, Temperature.

17429-68

POPULATION FLUCTUATION OF THREE PRATYLENCHUS SPP. ON PEACH UNDER CENTRAL GEORGIA CONDITIONS. (ABSTRACT).

P Fliegel A M Golden

*Nematologica* 14(1):7-8

1968 436.8 N342

Nematodes, Parasitism, Peaches, Population statistics, Pratylenchus brachyurus, Pratylenchus vulnus, Pratylenchus zeae.

17430-68

ECOLOGY AND VECTOR RELATIONSHIP OF LONGIDORUS MACROSOMA HOOPER. (GE )

R Fritzsche

*Biol Zentralbl* 87(2):139-146

Mar 1968 442.8 B523

Animal vectors, Ecology, Nematodes, Plant diseases, Rhizosphere, Virus diseases (plants). English and German summaries

17431-68

HETERODERA CRUCIFERA FRANKLIN 1945, BRASSICA ROOT EELWORM IN YUGOSLAVIA. (CZ )

G Grujic D Krnjaic

*Zastita Bilja* 12(91-92):309-313

1966 464.8 Z1

Brassica, Cysts, Eggs, Heterodera cruciferae, Larvae, Nematodes, Vegetables. English summary

17432-68

THE RESPONSE OF A POPULATION OF HETERODERA ROSTOCHIENSIS TO CROPPING ROTATIONS THAT INCLUDE RESISTANT POTATOES. (ABSTRACT).

M B Harrison

*Nematologica* 14(1):8

1968 436.8 N342

Crop rotation, Heterodera rostochiensis, Nematodes, Plant nematode resistance, Population statistics, Potatoes.

17433-68

EFFECT OF ORGANIC AND INORGANIC NITROGEN ON NEMATODE POPULATIONS FEEDING ON TURF. (ABSTRACT).

C M Heald G W Burton

*Nematologica* 14(1):8

1968 436.8 N342

Ammonium nitrate, Belonolaimus longicaudatus, Cynodon dactylon, Feeding, Nematodes, Nitrogen, Population statistics, Turf.

17434-68

INFLUENCE OF SOIL MOISTURE ON PRATYLENCHUS PENETRANS.

P F Kable W F Mai

*Nematologica* 14(1):101-122 REF

1968 436.8 N342

Alfalfa, Nematodes, Population statistics, Pratylenchus penetrans, Roots, Soil moisture. German summary

17435-68

OVERWINTERING OF PRATYLENCHUS PENETRANS IN A SANDY LOAM AND A CLAY LOAM SOIL AT ITHACA, NEW YORK.

P F Kable W F Mai

*Nematologica* 14(1):150-152

1968 436.8 N342

Clay soils, Fruit, Loam, Nematodes, Pratylenchus penetrans, Roots, Sandy soils.

17436-68

RESEARCH ON THE OATS-NEMATODE PROBLEM. (GE )

E Lucke H Weber

*Gesunde Pflanzen* 19(8):167-169

Aug 1967 464.8 G33

Grain, Nematodes, Oats, Parasitism, Plant diseases, Research.

17437-68

THE DYNAMICS OF THE PERMEATION OF NEMATODES BY NEMATODES AND OTHER CHEMICALS.

C F Marks

*Diss Abstr Sect B* 28(10):3961B

Apr 1968 Z5055.U49D53

Agar, Aphelenchus avenae, Biochemistry, Chemicals, Nematocides, Nematodes, Permeability, Rhizoctonia solani.

17438-68

MODE OF REPRODUCTION OF HETERODERA TABACUM. (ABSTRACT).

L I Miller B J Gray

*Nematologica* 14(1):10-11

1968 436.8 N342

Hermaphroditism, Heterodera tabacum, Injections, Larvae, Nematodes, Physiology, Reproduction, Roots, Solanum carolinense.

17439-68

THE ROLE OF CALCIUM IN RESISTANCE OF ALFALFA TO DITYLENCHUS DIPSACI. (ABSTRACT).

D Muisingh R T Sherwood

*Nematologica* 14(1):8-9

1968 436.8 N342

Alfalfa, Calcium, Ditylenchus dipsaci, Enzymes, Nematodes, Nutrient solutions (plants), Plant nematode resistance.

17440-68

STUDIES ON THE FEEDING AND REPRODUCTION OF SEVEN MYCOPHAGOUS NEMATODES ON RHIZOCTONIA, FUSARIUM, AND VERTICILLIUM. (ABSTRACT).

W R Nickle P McIntosh

*Nematologica* 14(1):11-12

1968 436.8 N342

Culture media, Feeding, Fungi, Fusarium solani, Injections, Nematodes, Physiology, Reproduction, Rhizoctonia solani, Verticillium albo-atrum.

17441-68

MIGRATORY ENDOPARASITIC NEMATODES REARED ON CARROT DISCS.

J H O'Bannon A L Taylor

*Phytopathology* 58(3):385

Mar 1968 464.8 P56

Carrots, Culture media, Ditylenchus destructor, Nematodes, Parasitism, Pratylenchus brachyurus, Radopholus similis.

17442-68

OBSERVATIONS ON SEASONAL POPULATION CHANGES OF TYLENCHULUS SEMIPENETRANS AND THE INFLUENCE OF TEMPERATURE ON EGG HATCH. (ABSTRACT).

J H O'Bannon

*Nematologica* 14(1):12-13

1968 436.8 N342

Citrus, Nematodes, Physiology, Population statistics, Temperature, Time, Tylenchulus semipenetrans.

17443-68

THE INFLUENCE OF SYSTEMIC PLANT GROWTH SUBSTANCES ON THE GALLS INDUCED BY THE ROOT KNOT NEMATODE MELOIDOGYNE JAVANICA.

D Orion G Minz

*Phytopathology* 58(3):384

Mar 1968 464.8 P56

Meloidogyne javanica, Nematodes, Plant galls, Plant injuries, Plant regulators, Root knot (tomatoes), Roots, Tomatoes.

17444-68

THE EFFECT OF CERTAIN CHEMICAL SOIL TREATMENTS AND METHODS OF APPLICATION IN THE CONTROL OF MELOIDOGYNE INCOGNITA ACRITA AND EFFECT OF THESE TREATMENTS ON FLUE-CURED TOBACCO YIELD AND VALUE. (ABSTRACT).

W W Osborne C Harris L M Harrison W F

Brown R L Shaw

*Nematologica* 14(1):13-14

1968 436.8 N342

Agricultural economics, Chemical control (nematodes), Crop yields, Flue-cured tobacco, Meloidogyne incognita acrita, Nematocides, Nematodes, Pesticide application, Soil chemistry, Soils, Tobacco.

17445-68

MULTIPLICATION OF THE POTATO CYST-NEMATODE (HETERODERA ROSTOCHIENSIS) IN LYCOPERSICON SPP.

A V Palo

*Nematologica* 14(2):314-315

21 Mar 1968 436.8 N342

Ecology, Heterodera rostochiensis, Plant nematode resistance, Roots, Tomatoes.

17446-68

EFFECT OF AN APHELENCHOIDES SPECIES ON THE GROWTH OF MYCORRHIZAL FUNGI. (ABSTRACT).

J W Riffle

*Nematologica* 14(1):14

1968 436.8 N342

Agar, Aphelenchoides, Fungi, Mycorrhiza, Nematodes, Physiology.

17447-68

DEVELOPMENT OF THE REPRODUCTIVE SYSTEM IN SOME PRATYLENCHUS SPECIES. (ABSTRACT).

J Roman



*Nematologica* 14(1):14

1968 436.8 N342

Morphology, Nematodes, Physiology, Pratylenchus, Reproduction, Reproductive organs.

17448-68

THE FORMATION OF GIANT CELLS IN TOMATO ROOTS INFECTED BY THE POTATO CYST NEMATODE, HETERODERA ROSTOCHIENSIS AND THE GREY STERILE FUNGUS, G.S.F..

A K Roy

*Nematologica* 14(2):313-314

21 Mar 1968 436.8 N342

Fungus diseases (plants), Heterodera rostochiensis, Nematodes, Plant cytology, Plant ecology, Tomatoes.

17449-68

THE EFFECT OF NINE PARASITIC NEMATODE SPECIES ON GROWTH, YIELD AND QUALITY OF PEANUTS AS DETERMINED BY SOIL FUMIGATION AND CORRELATION OF NEMATODE POPULATIONS WITH HOST RESPONSE. (ABSTRACT).

J N Sasser J C Wells L A Nelson

*Nematologica* 14(1):15

1968 436.8 N342

Agricultural economics, Crop yields, Nematodes, Parasitism, Peanuts, Plant physiology, Population statistics, Soil fumigation.

17450-68

POPULATION STUDIES OF PLANT-PARASITIC NEMATODES AROUND SUGARCANE ROOTS IN NYANZA PROVINCE, KENYA.

R L P W Schoemaker

*Nematologica* 14(2):295-299

21 Mar 1968 436.8 N342

Plant ecology, Plant nematodes, Population, Pratylenchus, Soil fauna, Sugarcane. French summary

17451-68

GREENHOUSE EXPERIMENTS WITH BAITS FOR CONTROL OF THE BLACK CUTWORM.

R E Sechriest

*J Econ Entomol* 61(3):591-593

Jun 1968 421 J822

Agrotis ipsilon, Biochemistry, Corn, Greenhouse culture, Insecticides, Larvae, Seedlings, Toxins. Chemicals used were: trichlorfon, American cyanamid CL47470, abate, ethyl parathion, mirex, TDE, and carharyl.

17452-68

THE INFLUENCE OF THE STAGE OF DEVELOPMENT OF LESION NEMATODES ON POPULATION DYNAMICS AND SUBSEQUENT HOST RESPONSE. (ABSTRACT).

C J Southards

*Nematologica* 14(1):15-16

1968 436.8 N342

Beans, Corn, Demography, Morphology, Nematodes, Physiology, Tobacco.

17453-68

EFFECT OF SOME PHYSICAL FACTORS ON VARIABILITY WITHIN THE X. AMERICANUM GROUP. (ABSTRACT).

A C Tarjan

*Nematologica* 14(1):16

1968 436.8 N342

Ecology, Nematodes, Population, Rainfall, Temperature, Xiphinema americanum.

17454-68

QUANTITATIVE EVALUATION OF THE EFFECT OF PRATYLENCHUS PENETRANS ON ROOT DEVELOPMENT OF SEEDLING SOYBEANS UNDER DEFINED CONDITIONS. (ABSTRACT).

P L Taylor J M Ferris V R Ferris

*Nematologica* 14(1):17

1968 436.8 N342

Nematodes, Plant injuries, Plant physiology, Pratylenchus penetrans, Roots, Seedlings, Soybeans.

17455-68

SEPARATION OF EGGS OF PRATYLENCHUS PENETRANS FROM PLANT TISSUE CULTURE BY SUCROSE GRADIENT CENTRIFUGATION. (ABSTRACT).

B Thistlethwayte

*Nematologica* 14(1):17-18

1968 436.8 N342

Centrifugation, Nematodes, Plants, Pratylenchus penetrans, Sucrose, Tissue culture.

17456-68

A SURVEY OF PLANT-PARASITIC NEMATODES AROUND ROOTS OF GREAT MILLET (SORGHUM VULGARE) FROM RAJASTHAN, INDIA.

M G Tikyani S Khera

*Plant Dis Rep* 52(5):396-398,MAP

May 1968 1.9 P69P

Insect vectors, Nematodes, Parasitic insects, Parasitic plants, Plant diseases, Roots, Soil sampling, Sorghum.

17457-68

THE PERMEABILITY OF THE CYST OF THE TOBACCO ROOT EELWORM, HETERODERA TABACUM.

S E Wührheim P M Miller A E Dimond

*Phytopathology* 58(6):843-847 REF

Jun 1968 464.8 P56

Autoradiography, Cysts, Heterodera tabacum, Nematodes, Roots, Tobacco.

## WEEDS

17458-68

FACTORS AFFECTING THE ACTIVITY OF EPTC (ETHYL-N,N-DI-N-PROPYL THIOLCARBAMATE).

J C Cialone

*Diss Abstr Sect B* 28(10):3953B-3954B

Apr 1968 Z5055.U49D53

Biochemistry, Biological assay, Chemical control (weeds), Chemical reactions, Ethyl N,N-dipropylthiolcarbamate, Research, Soil horizons, Soil moisture, Vapors.

17459-68

HERBICIDES ARE TAKING OVER AQUATIC WEED CONTROL.

*Farm Chem* 130(18):87,90-92

Oct 1967 57.8 AM3

Alternanthera philoxeroides, Aquatic weeds, Carbon disulfide, Chemical control (weeds), Diuron, Herbicides, Methyl bromide.

17460-68

RESPONSE OF CONIFER SEEDLINGS AND WEEDS TO SEEDBED FUMIGANTS.

R Grover

*Can J Plant Sci* 48(2):189-196

Mar 1968 450 C16

Allyl alcohol, Chemical control (weeds), Chloropicrin, Dimethyltetrahydro-1,3,5-2H-thiadiazine-2-thione, 3,5-, Fumigants, Methyl bromide, Picea glauca, Picea pungens, Pinus sylvestris, Seedbeds, Sodium N-methylthiocarbamate, Soil fumigation.

17461-68

CONTROL OF DETRIMENTAL WEEDS WITH STAM F-34 IN NONIRRIGATED RICE WITH DIFFERENT SPACING OF THE PLANTS. (POR

L Leiderman de D M Souza dos C A L Santos J

M Araujo

*Biologico* 33(5):102-106

May 1967 442.8 B529

Herbicides, Plant protection, Propanil, Rice, Weed control.

17462-68

CONTROL OF UNDESIRABLE GRASSES OF MANOBI BY THE PREEMERGENCE AND PRE-PLANTING APPLICATION OF HERBICIDES. (POR )

C A Lobato dos Santos I. Leiderman W

Sichmann

*Biologico* 33(11):244-250

Nov 1967 442.8 B529

Chemical control (weeds), Dichlorophenyl p-nitrophenyl ether, 2,4-, Hcrbicides, Methyl-4-chlorophenoxy)butyric acid, 4-(2-, Peanuts, Pcbulate, Prometryne. Portugese and English summaries Abstract

17463-68

METHOD FOR THE CONTROL OF UNDESIRABLE VEGETATION WITH 3,5,6-SUBSTITUTED URACILS. PATENT 3,374,083.

H M Loux

*Us Patent Office Offic Gaz* 848(3):751

19 Mar 1968 156.65 OF2

Chemical control (weeds), Herbicides, Patents, Pyrimidines, Uracils.

17464-68

COMPARED TESTS ON THE RESISTANCE OF VARIOUS TROPICAL TYPES OF WOOD TO WORM-ATTACK ON THE COAST OF WEST AFRICA. (TT 8544) TRANSL. 16896.

P Rancurel

15 P.

1967

Immunity, Nematodes, Research, Tables (data), Tree injuries, Wood. Translation from Bois et Forets des Tropiques 106:27-39, mar.-Apr. 1966. issued by CSIRO.

17465-68

FLAME, ALONE AND IN COMBINATION WITH HERBICIDES, FOR WEED CONTROL IN CORN, POTATOES, AND SEVERAL COLE CROPS.

H P Wilson

*Diss Abstr Sect B* 28(10):3958B

Apr 1968 Z5055.U49D53

Atrazine, Broccoli, Cabbage, Cauliflower, Chemical control (weeds), Corn, Herbicides, Histology, Linuron, Pesticide application, Potatoes, Weed burners, Weed control.

## OTHER PESTS

17466-68

INTERNATIONAL DISPERSAL OF NEMATODES.

S Bingefors

*Neth J Plant Pathol* 73(SUP.1):44-60 REF

1967 464.8 T44

Biological transport, Ecology, Environment, Nematodes, Parasitism, Plant protection, World agricultural situation.

17467-68

AN ANALYSIS OF BLACKBIRD FLOCK FEEDING BEHAVIOR.

M I Dyer

*Can J Zool* 45(5):765-772,MAP

Sep 1967 470 C16D

Birds, Blackbirds, Corn, Feeding, Sweetcorn.

Abstract

## LIVESTOCK PROTECTION

17468-68

EFFECT OF DIET ON METABOLISM OF FENTHION IN ANIMALS.

A Begum

*Diss Abstr Sect B* 28(10):4165B

Apr 1968 Z5055.U49D53

Biochemistry, Diet, Fenthion, Laboratory animals, Metabolism, Metabolites, Rabbits, Radioactivity, Rats.

- 17469-68**  
EFFECT OF GLYCINE AND SERINE ON THE METABOLISM OF METHIONINE. (ABSTRACT).  
N J Bencvenga A E Harper  
*Fed Amer Soc Exp Biol Fed Proc* 27(2):252  
Mar 1968 442.9 F31P  
Animal nutrition, Biochemistry, Diet, Glycine, Metabolism, Methionine, Rats, Scrine.
- 17470-68**  
THE DYNAMICS OF ANTIBODY AGAINST EIMERIA TENELLA UNDER THE FLUORESCENT MICROSCOPE.  
Z Cerna  
*Folia Parasitol* 14(1):13-18  
1967 436.8 C33  
Antibodies, Antigens, Chickens, Eimeria tenella, Fluorescence microscopes, Quantitative analysis.
- 17471-68**  
EFFECT OF A LATHYROGEN ON OXYGEN CONSUMPTION AND C1402 RESPIRATORY PATTERN OF C14-LABELED AMINO ACIDS IN DEVELOPING CHICK EMBRYOS. (ABSTRACT).  
J J Clemmons  
*Fed Amer Soc Exp Biol Fed Proc* 27(2):412  
Mar 1968 442.9 F31P  
Amino acids, Animal metabolism, Animal respiration, Carbon dioxide, Eggs, Embryology, Lathyrism, Lathyrigen, Lysine, Oxygen, Radioactive tracers, Research.
- 17472-68**  
THE EFFECT OF FEEDING A LOW LYSINE DIET TO CHICKS AT FOUR WEEKS OF AGE. (ABSTRACT).  
J R Couch J Trammell F M Farr C R Creger  
*Fed Amer Soc Exp Biol Fed Proc* 27(2):251  
Mar 1968 442.9 F31P  
Agricultural research, Animal nutrition, Biochemistry, Chicks, Diet, Lysine.
- 17473-68**  
RESISTANCE OF CATTLE TO CATTLE TICK, BOOPHILUS MICROPLUS. I. THE DEVELOPMENT OF RESISTANCE TO EXPERIMENTAL INFESTATION.  
R W Hewetson J Nolan  
*Australian J Agr Res* 19(2):323-333  
Mar 1968 23 AU783  
Boophilus microplus, Cattle, Climate, Immunity, Insect eggs, Zebu cattle.  
Abstract: There was a regression of adult female ticks becoming replete with infestation up to the fourth infestation. Egg-laying was not affected by a developing resistance, but the fertility of eggs from female egg-laying ticks was.
- 17474-68**  
THE BIOLOGICAL HALF LIFE OF PROGESTERONE IN THE PERIPHERAL BLOOD OF COWS. (JA )  
T Imori  
*Jap J Vet Sci* 29(4):201-208 REF  
Aug 1967 41.8 J27  
Biology, Blood, Dairy cattle, Hormones, Injections, Progesterone, Radioactivity, Radiochemistry.  
Abstract: cows injected at different luteal stages of the ovarian cycle and in pregnancy.
- 17475-68**  
EFFECTS OF LATHYROGENS AND NON-LATHYROGENS ON CHICK EMBRYO OXYGEN CONSUMPTION WHEN INJECTED ONTO VARIOUS SITES. (ABSTRACT).  
R J Malvesta  
*Fed Amer Soc Exp Biol Fed Proc* 27(2):412  
Mar 1968 442.9 F31P  
Animal respiration, Beta-aminopropionitrile, Chicks, Eggs, Injections, Lathyrism, Oxygen.
- 17476-68**  
QUANTITATIVE ANALYSIS OF THE SOLUBLE ANTIGENS OF BIOTYPES OF BRUCELLA ABORTUS.  
L K Nagy  
*Res Vet Sci* 9(3):197-201 REF  
May 1968 41.8 R312  
Acetone, Agar, Antigens, Bacteria, Brucella abortus, Cells, Extracts, Immunization, Quantitative analysis, Rabbits.
- 17477-68**  
BLOOD CONCENTRATION OF CHLORAMPHENICOL IN HORSES AFTER INTRAMUSCULAR OR ORAL ADMINISTRATION.  
S Oh-ishi  
*Jap J Vet Sci* 30(1):25-28  
Feb 1968 41.8 J27  
Blood, Chloramphenicol, Horses, Metabolites, Microbiology, Mouth, Muscles, Serological tests, Tissues, Urine. Japanese summary
- 17478-68**  
EFFICACY STUDIES ON A NEW PROCESSED. I. MICRON REFINED PHENOTHIAZINE AGAINST GASTRO-INTESTINAL NEMATODES IN FEEDER LAMBS.  
D L Peardon  
*Res Vet Sci* 9(3):202-208 REF  
May 1968 41.8 R312  
Biochemistry, Dosage, Drug therapy, Gastrointestinal system, Haemonchus contortus, Lambs, Nematodes, Parasitism, Phenothiazine, Research.
- 17479-68**  
EFFECTS OF A POTASSIUM DEFICIENCY ON CALCIFICATION OF BONE IN CHICKS.  
K E Rinehart J C Rogler W R Featherston  
*J Nutr* 96(2):231-235  
Oct 1968 389.8 J82  
Bone diseases, Calcification (physiological), Chickens, Deficiency diseases, Feeding, Isotopes, Potassium, Sodium.
- 17480-68**  
EFFECTS OF CYCLOHEXIMIDE (CHX) ON DNA AND PROTEIN SYNTHESIS IN RAT LIVER. (ABSTRACT).  
K Tornheim R G O'Dell L Prosky  
*Fed Amer Soc Exp Biol Fed Proc* 27(2):415  
Mar 1968 442.9 F31P  
Biochemistry, Cycloheximide, Deoxyribonucleic acid, Leucine, Liver, Protein synthesis, Rats, Ribonucleic acid.
- 17481-68**  
FOOD HABITS OF THE PACIFIC MOUNTAIN BEAVER, APLODONTIA RUFA PACIFICA MERRIAM.  
E H Voth  
*Diss Abstr Sect B* 28(11):4372  
May 1968 Z5055.U49D53  
Aplodontia rufa pacifica, Beavers, Food, Seedlings, Tree injuries.

## DISEASES

- 17482-68**  
THE MORPHOLOGICAL CHARACTERISTICS OF AFRICAN SWINE FEVER VIRUS AND ITS RESEMBLANCE TO TIPULA IRIDESCENT VIRUS.  
J D Almedida A P Waterson W Plowright  
*Arch Gesamte Virusforsch* 20(3):392-396 REF  
1967 448.3 AR23  
African swine fever virus, Morphology, Myxoviruses, Tipula iridescent virus, Virology.
- 17483-68**  
ELECTRON MICROSCOPY OF IMMUNE DISRUPTION OF LEPTOSPIRES: ACTION OF COMPLEMENT AND LYSOZYME.  
D L Anderson R C Johnson  
*J Bacteriol* 95(6):2293-2309 REF  
Jun 1968 448.3 J82  
Antibodies, Complement, Electron microscopy, Immunology, Leptospira, Muramidase.  
Abstract
- 17484-68**  
INFLUENCE OF DUST AND AMMONIA ON THE DEVELOPMENT OF AIR SAC LESIONS IN TURKEYS.  
D P Anderson R R Wolfe F L Chermis W E Roper  
*Amer J Vet Res* 29(5):1049-1058  
May 1968 41.8 AM3A  
Air sacs, Ammonia, Animal diseases, Dust (soil), Mycoplasma, Mycoplasma melcagridis, Turkeys.
- 17485-68**  
NUCLEOSIDE PHOSPHORYLASE AND XANTHINE DEHYDROGENASE IN DEVELOPMENT OF NORMAL AND DYSTROPHIC CHICKENS. (ABSTRACT).  
P Arslan I M Weinstock  
*Fed Amer Soc Exp Biol Fed Proc* 27(2):781  
Mar 1968 442.9 F31P  
Chickens, Liver, Livestock diseases, Muscular dystrophy, Nucleic acids, Nucleosides, Pancreas, Phosphorylases, Thymidine, Xanthine dehydrogenase.
- 17486-68**  
STUDIES ON URINARY INCONTINENCE AND 'WET BELLY' IN RANCH MINK (MUSTELA VISON).  
R J Aulerich  
*Diss Abstr Sect B* 28(9):3545B  
Mar 1968 Z5055.U49D53  
Animal diseases, Calcium, Diet, Minks, Neomycin, Nitrofurantoin, Urine, Wet belly.
- 17487-68**  
REQUIREMENT OF YOUNG CHICK EMBRYOS FOR PHENYLALANINE AND TYROSINE. (ABSTRACT).  
R E Austic  
*Fed Amer Soc Exp Biol Fed Proc* 22(2):727  
Mar 1968 442.9 F31P  
Amino acids, Chicks, Deficiency diseases, Eggs, Neoplasms, Nervous system diseases, Phenylalanine, Tyrosine.
- 17488-68**  
NON-SPECIFIC PHOSPHATASES OF NORMAL AND NEOPLASTIC RABBITS ENDOMETRIUM. (ABSTRACT).  
N Baba S C Vidyarthi E V Hamm  
*Fed Amer Soc Exp Biol Fed Proc* 27(2):541  
Mar 1968 442.9 F31P  
Alkaline phosphatase, Endometrium, Neoplastic diseases, Phosphatases, Plasma membrane, Rabbits.
- 17489-68**  
SKIN ALLERGY OF THE CAT AND DOG.  
K P Baker  
*Irish Vet J (N.S.)* 3(22):47-50 REF  
Mar 1968 41.8 IR4  
Allergies, Animal diseases, Cats, Diagnosis, Dogs, Skin, Therapeutics.
- 17490-68**  
HISTOLOGIC CHANGES AND INCLUSION BODIES IN CHICKENS INOCULATED WITH AN ORNITHOSIS AGENT.  
R A Bankowski H Gerlach T Mikami  
*Avian Dis* 12(2):217-226 REF  
May 1968 41.8 AV5  
Animal diseases, Animal histology, Chickens, Immunization, Inclusion bodies, Ornithosis.
- 17491-68**  
THE SPREAD OF SARCOPODIOSIS IN CATTLE AND SWINE AND ITS IMPORTANCE FOR THE ESTIMATION OF MEAT VALUE. (CZ )  
V Bartulic I Ljubic  
*Vet Glas* 22(3):179-183 REF  
1968 41.8 J93  
Cattle, Economics, Livestock diseases, Meat, Sarcopodiosis, Swine. English and Russian summaries
- 17492-68**  
VITAMIN B6 REQUIREMENT OF THE MINK.  
A L Bowman H F Travis R G Warner D E Hoguc



- J Nutr* 95(4):554-562 REF  
Aug 1968 389.8 J82  
Animal nutrition, Animal physiology, Deficiency diseases, Diet, Metabolism, Minks, Vitamin b6.
- 17493-68  
IMMUNOGENICITY OF CELL WALLS FROM VARIOUS MYCOBACTERIA AGAINST AIRBORNE TUBERCULOSIS IN MICE.  
W Brehmer R L Anacker E Ribl  
*J Bacteriol* 95(6):2000-2004 REF  
Jun 1968 448.3 J82  
Animal diseases, Cell wall, Immunology, Mice, Mycobacterium, Tuberculosis, Vaccines.  
Abstract
- 17494-68  
AN ABORTIVE INFECTION PRODUCED BY MEASLES VIRUS. (ABSTRACT).  
T Burnstein W R Miller  
*Fed Amer Soc Exp Biol Fed Proc* 27(2):445  
Mar 1968 442.9 F31P  
Abortion, Culture media, Fluorescence, Hamsters, Immunology, Measles virus, Vesicular stomatitis virus.
- 17495-68  
DIETARY PRODUCTION OF CONGENITAL COPPER DEFICIENCY IN SWINE.  
P A Cancilla R M Barlow N Weissman W F Coulson W H Carnes  
*J Nutr* 93(4):438-444 REF  
Dec 1967 389.8 J82  
Animal breeding, Animal nutrition, Copper, Deficiency diseases, Diet, Swine.
- 17496-68  
EFFECT OF SMALL CHANGES IN DIETARY THIAMINE OR ESSENTIAL FATTY ACID IN ALTERING THE RATE OF DRUG DETOXICATION IN THE LIVER OF THE RAT. (ABSTRACT).  
W O Caster A E Wade F E Greene J S Meadows  
*Fed Amer Soc Exp Biol Fed Proc* 27(2):549  
Mar 1968 442.9 F31P  
Aniline, Animal metabolism, Chemurgy, Diet, Fatty acids, Heptachlor, Liver, Rats, Thiamine, Toxicology.
- 17497-68  
ELECTRON MICROSCOPIC OBSERVATIONS ON SCRAPIE IN THE MOUSE, WITH REFERENCE TO GLUCOSAMINIDASE ACTIVITY.  
R L Chandler K Smith  
*Res Vet Sci* 9(3):228-230 REF  
May 1968 41.8 R312  
Animal diseases, Cytology, Cytoplasm, Electron microscopy, Histochemistry, Metabolism, Mice, Scrapie.
- 17498-68  
FELINE INFECTIOUS ANAEMIA: A FIRST CASE.  
J D Collins H J Neumann  
*Irish Vet J (N.S.)* 22(5):88-89  
May 1968 41.8 R14  
Cats, Equine infectious anemia, Parasitism.
- 17499-68  
ANTIGENIC HETEROGENEITY OF FOOT-AND-MOUTH DISEASE VIRUS AS DEMONSTRATED WITH 7 DAYS POSTINFECTION GUINEA PIG SERUM BY OUCHTERLONY ANALYSES. (ABSTRACT).  
K M Cowan  
*Fed Amer Soc Exp Biol Fed Proc* 27(2):733  
Mar 1968 442.9 F31P  
Antigens, Biochemistry, Blood serum, Chymotrypsin, Foot-and-mouth disease virus, Guinea pigs, Ribonucleic acid, Trypsin.
- 17500-68  
SEPHADEX G. 200 GEL-FILTRATION IN THE STUDY OF AGGLUTINATING, COMPLEMENT-FIXING, AND IN COMPLETE ANTIBODIES TO BRUCELLA ABORTUS IN CATTLE.  
B Cunningham R A Q O'Meara W A Bogust  
*Irish Vet J (N.S.)* 22(6):102-107 REF  
Jun 1968 41.8 R14  
Agglutination, Antibodies, Blood, Brucella abortus, Cattle, Filters, Gels, Research, Vaccines.
- 17501-68  
THE INCIDENCE OF ANTIBODIES OF SOME ARBOVIRUSES IN MEN, DOMESTIC AND WILD ANIMALS LIVING IN THE NATURAL FOCUS OF THE TAHYNA VIRUS IN THE SOUTH OF MORAVIA. (CZ.)  
V Danielova Z Marhoul  
*Cesk Epidemiol Mikrobiol Imunol* 17(3):155-161 REF  
May 1968 448.8 C332  
Deer, Humans, Livestock, Pheasants, Rabbits, Russian spring-summer encephalitis, Serological tests, Tahyna virus, Wildlife. English, Czech, and Russian abstract  
Abstract: Serum of wild and domestic animals, and of the population in the natural focus of Tahyna virus in Moravia showed that 62.0 percent of men and 55.17 percent of hares were positive. Neutralization test on tissue cultures was more sensitive than in mice. Antibodies against Calovo virus were found in a hind, and against tickborne encephalitis virus in the serum of one pheasant and four people.
- 17502-68  
STUDIES TO DETERMINE NEUTRALIZING ANTIBODY IN SERA FROM SWINE RECOVERED FROM AFRICAN SWINE FEVER. (ABSTRACT).  
C J De Boer A H Dardiri W R Hess  
*Fed Amer Soc Exp Biol Fed Proc* 27(2):734  
Mar 1968 442.9 F31P  
African swine fever, African swine fever virus, Blood serum, Electron microscopy, Lactate dehydrogenase, Livestock diseases, Swine.
- 17503-68  
GROUP-SPECIFIC STREPTOCOCCUS AGALACTIAE ANTIBODIES IN COLOSTRUM OF FIRST-CALF HEIFERS.  
K Dodd N L Noreross  
*Amer J Vet Res* 29(5):1095-1096  
May 1968 41.8 AM3A  
Animal diseases, Antibodies, Antigens, Cattle, Colostrum, Dairy bacteriology, Streptococcus agalactiae.
- 17504-68  
PLASMA ZINC AND LEUKOCYTE CHANGES IN RATS DURING ZINC DEFICIENCY. (ABSTRACT).  
I E Dreosti S Tao L S Hurley  
*Fed Amer Soc Exp Biol Fed Proc* 27(2):484  
Mar 1968 442.9 F31P  
Blood plasma, Chemurgy, Leukocytes, Pregnancy, Rats, Zinc.
- 17505-68  
AN OUTBREAK OF ATYPICAL INTERSTITIAL PNEUMONIA OF CATTLE.  
W J Ehret J G Pienaar  
*S Afr Vet Med Ass J* 38(4):407-413 REF  
Dec 1967 41.8 SO8  
Algae, Cattle, Drug therapy, Livestock diseases, Molds, Pneumonia, Reproduction, Taxonomy.
- 17506-68  
COPPER DEFICIENCY IN THE GUINEA PIG.  
G J Everson H C Tsai T Wang  
*J Nutr* 93(4):533-540 REF  
Dec 1967 389.8 J82  
Animal abnormalities, Animal nutrition, Animal physiology, Copper, Deficiency diseases, Guinea pigs.  
Abstract: Considerable myelination in utero, ataxia, brain abnormalities, aneurisms, agenesis of cerebellum, and defective nerve tissue development.
- 17507-68  
THE KINETICS OF THE HEMOLYSIN OF NEWCASTLE DISEASE VIRUS.  
E M Faddoul  
*Diss Abstr Sect B* 28(9):3578B  
Mar 1968 Z5055.U49D53  
Biochemistry, Erythrocytes, Hemolysins, Kinetics, Newcastle disease virus, Research.
- 17508-68  
PESTICIDE-MANGANESE INTERRELATIONSHIPS IN PREGNANCY. (ABSTRACT).  
J P Feaster G K Davis C H Van Middellem  
*Fed Amer Soc Exp Biol Fed Proc* 22(2):730  
Mar 1968 442.9 F31P  
Animal nutrition, Blood plasma, Carbaryl, Liver, Manganese, Parathion, Pregnancy, Rats.
- 17509-68  
UNSUCCESSFUL ATTEMPTS TO TRANSMIT SCRAPIE BY NEMATODE PARASITES.  
W M Fitzsimmons I H Pattison  
*Res Vet Sci* 9(3):281-283  
May 1968 41.8 R312  
Animal diseases, Animal histology, Injections, Laboratory animals, Nematodes, Nippostrongylus brasiliensis, Parasitism, Scrapie.
- 17510-68  
TUBERCULIN REACTION IN REGARD TO PATHOGENESIS OF TUBERCULOSIS.  
E Gavez  
*Vet Glas* 22(1):51-54  
1968 41.8 J93  
Animal diseases, Cattle, Epizootic diseases, Heterogenesis, Tuberculin test, Tuberculosis.
- 17511-68  
THE EFFECT OF HYPOTHALAMIC LESIONS ON THYROID FUNCTION IN COCKERELS.  
W H Gehrmann  
*Diss Abstr Sect B* 28(9):3855B  
Mar 1968 Z5055.U49D53  
Animal physiology, Cockerels, Lesions, Radioactive tracers, Thyroid gland.
- 17512-68  
ULTRASTRUCTURAL CHANGES IN DOG KIDNEY IN INFECTIOUS CANINE HEPATITIS. (ABSTRACT).  
K Givan  
*Fed Amer Soc Exp Biol Fed Proc* 27(2):663  
Mar 1968 442.9 F31P  
Animal diseases, Animal morphology, Dogs, Electron microscopy, Glomerulitis, Histology, Infectious canine hepatitis, Kidneys, Research, Viruses.
- 17513-68  
EARLY RESPONSE OF CATTLE AND SWINE TO INACTIVATED FOOT-AND-MOUTH DISEASE VACCINE.  
J H Graves P D McKercher H E Farris K M Cowan  
*Res Vet Sci* 9(1):35-40  
Jan 1968 41.8 R312  
Cattle, Foot-and-mouth disease virus, Immunization, Swine, Vaccines, Virus diseases (animals).
- 17514-68  
PSEUDORABIES IN PREGNANT SOWS AND THEIR PROGENY. (ABSTRACT).  
D P Gustafson R M Claflin J R Saunders  
*Fed Amer Soc Exp Biol Fed Proc* 27(2):445  
Mar 1968 442.9 F31P  
Abortion, Agricultural research, Antibodies, Baby pigs, Colostrum, Culture media, Livestock diseases, Pregnancy, Pseudorabies, Swine, Viruses.
- 17515-68  
STUDIES ON THE ABSORPTION OF 75 SELENIUM IN CHICKS. (ABSTRACT).  
C H Hill  
*Fed Amer Soc Exp Biol Fed Proc* 27(2):417  
Mar 1968 442.9 F31P  
Animal nutrition, Biological transport, Chemurgy, Chicks, Duodenum, Intestinal absorption, Mercapto group, Radioactive tracers, Selenium.
- 17516-68  
ZINC LEVELS IN MATERNAL-FETAL ORGANISM UNDER TERATOGENIC CONDITIONS OF ZINC DEFICIENCY. (ABSTRACT).  
L S Hurley H Swenerton J Gowen  
*Fed Amer Soc Exp Biol Fed Proc* 27(2):484

17517-68

Mar 1968 442.9 F31P

Animal abnormalities, Animal nutrition, Bones, Chemurgy, Deficiency diseases, Diet, Fetal death, Liver, Rats, Zinc.

17517-68

DOGS AS A SOURCE OF TOXOPLASMOSES. (RUS)

N A Iova I D Nctrebko

*Zhuur Mikrobiol Epidemiol Immunobiol* 12:105-108

Dec 1967 448.3 Z4

Dogs, Toxoplasmosis. English summary.

17518-68

RECOVERY OF CANINE DISTEMPER VIRUS FROM SUBCULTURED PRIMARY DOG KIDNEY CELL CULTURE.

L Kasza

*Res Vet Sci* 9(2):187-188

Mar 1968 41.8 R312

Antibodies, Canine distemper, Cytoplasm, Dogs, Kidneys, Research, Tissue culture, Virus diseases (animals).

17519-68

COMPARISON OF INFECTIONS WITH LEUCOCYTOZOON SIMONDI IN BLACK DUCKS (ANAS RUBRIPES), MALLARDS (ANAS PLATYRHYNCHOS) AND WHITE PEKINS (ANAS BOCHAS).

R A Khan A M Fallis

*Can J Zool* 46(4):773-780 REF

Jul 1968 470 C16D

Animal diseases, Ducks, Leucocytozoon simondi, Leukocytes, Mortality, Parasitism.

17520-68

FOOD ADDITIVES PERMITTED IN THE FEED AND DRINKING WATER OF ANIMALS OR FOR THE TREATMENT OF FOOD-PRODUCING ANIMALS. AMMONIATED COTTONSEED MEAL.

J K Kirk

*Fed Regist* 33(151):11077

03 Aug 1968 L1.451

Agricultural regulation, Ammonia, Animals, Cottonseed meal, Feed, Food additives, Therapeutics, Water.

17521-68

FOOD ADDITIVES PERMITTED IN FEED AND DRINKING WATER OF FOODPRODUCING ANIMALS. AMPROLIUM, OXYTETRACYCLINE, ZOALENE.

J K Kirk

*Fed Regist* 33(172,PT.1):12368

04 Sep 1968 L1.451

Amprolium, Animals, Animals, Drug therapy, Feed, Food additives, Livestock diseases, Oxytetracycline, Therapeutics, Water, Zoalene.

17522-68

FOOD ADDITIVES PERMITTED IN THE FEED AND DRINKING WATER OF ANIMALS OR FOR THE TREATMENT OF FOOD-PRODUCING ANIMALS. CARBARSONE (NOT U.S.P.).

J K Kirk

*Fed Regist* 33(138,PT.1):10207

17 Jul 1968 L1.451

Carbarsonc, Drugs, Feed, Food additives, Livestock, Therapeutics, Water.

17523-68

A SIMPLE METHOD FOR THE SERUM NEUTRALIZATION WITH JAPANESE ENCEPHALITIS (JE) VIRUS UTILIZING PLAQUE INHIBITION BY AGAR-DIFFUSED ANTIBODY.

H Kiyota

*Jap J Microbiol* 12(2):179-185 REF

Jun 1968 448.8 J273

Antibodies, Immunology, Japanese b encephalitis virus, Serodiagnosis, Serological tests, Virology.

Abstract

17524-68

C.F. ANTIGEN FROM LEUKOCYTES INFECTED WITH THE VIRUS OF EQUINE INFECTIOUS ANEMIA. (ABSTRACT).

K Kobayashi J B Henson J R Gorham

*Fed Amer Soc Exp Biol Fed Proc* 27(2):733

Mar 1968 442.9 F31P

Animal diseases, Antigens, Culture media, Equine infectious anemia, Leukocytes, Viruses.

17525-68

ANEMIA AND MECHANISM OF RED CELL DESTRUCTION IN DUCKS WITH ACUTE LEUCOCYTOZOON DISEASE.

R M Kocan

*Diss Abstr Sect B* 28(10):3948B-3949B

Apr 1968 Z5055.U49D53

Agglutination, Anaplasma, Anemia, Babcsia, Cells, Ducks, Erythrocytes, Hemolysis, Leucocytozoon simondi, Plasmodium, Serum.

17526-68

MAREK'S DISEASE. II. PROPAGATION OF THE CONNECTICUT-A ISOLATE IN CELL CULTURES.

S D Kottaridis R E Luginbuhl T N Fredrickson

*Avian Dis* 12(2):246-258 REF

May 1968 41.8 AV5

Animal histology, Avian lymphomatosis, Cells, Chickens, Culture media, Cytology, Immunization, Virus diseases (animals).

17527-68

EFFECTS OF HIGH DIETARY EDTA, ZINC OR COPPER ON MINERAL CONTENT OF TURKEY POULT TISSUE. (ABSTRACT).

F H Kratzer P Vohra G D Gottfredson

*Fed Amer Soc Exp Biol Fed Proc* 27(2):481

Mar 1968 442.9 F31P

Animal nutrition, Copper, Diet, Ethylenediaminetetraacetic acid, Minerals, Turkeys, Zinc.

17528-68

RESPONSE OF WEANLING RATS TO INFECTION, REBLOCKADE AND DIETARY PROTEIN. (ABSTRACT).

N Kula P M Newberne

*Fed Amer Soc Exp Biol Fed Proc* 22(2):725

Mar 1968 442.9 F31P

Animal nutrition, Casein, Deficiency diseases, Diet, Neoplasms, Protins, Rats, Salmonella typhimurium, Weaning.

17529-68

STUDIES ON THE ACQUIRED RESISTANCE OF SHEEP TO DICTYOCAULUS FILARIA (RUDOLPHI, 1809) RAILLIET AND HENRY, 1907.

G S Kunwar P G Dco

*Indian J Vet Sci Anim Husb* 37(4):298-304 REF

Dec 1967 41.8 IN22

Animal diseases, Dictyocaulus filaria, Immunity, Larvac, Parasitic bronchitis, Sheep, Verminous bronchitis.

17530-68

EFFECT OF HISTIDINE OR SOYBEAN MEAL ADDITIONS ON ZN DEFICIENCY SYMPTOMS. (ABSTRACT).

J G Lease

*Fed Amer Soc Exp Biol Fed Proc* 27(2):483

Mar 1968 442.9 F31P

Animal abnormalities, Blood, Chicks, Histidine, Lcgs, Phytates, Soybean meal, Zinc.

17531-68

AVAILABILITY TO THE CHICK OF ZINC PHYTATE COMPLEXES ISOLATED FROM OIL SEED MEALS BY AN IN VITRO DIGESTION METHOD.

J G Lease

*J Nutr* 93(4):523-532

Dec 1967 389.8 J82

Chicks, Digestion, Food supply, Meal, Phytates, Salts, Soybean meal, Zinc.

Abstract: Binding agent termed a carrier. Three isolated soy proteins contained low or no carrier properties.

17532-68

THE EFFECTS OF HYPO- AND HYPERTHYROIDISM ON THE TESTES AND ANTERIOR PITUITARY GLANDS OF COCKERELS.

G C Lchman

*Diss Abstr Sect B* 28(9):3928B

Mar 1968 Z5055.U49D53

Chemurgy, Cockcrels, Hyperthyroidism, Phosphorus isotopes, Pituitary gland, Testes.

17533-68

FREE AMINO ACIDS, AMMONIA AND UREA CONCENTRATIONS IN THE BLOOD PLASMA OF STARVED LAMBS.

J Leibholtz C F Cook

*J Nutr* 93(4):561-567 REF

Dec 1967 389.8 J82

Amino acids, Ammonia, Animal nutrition, Animal physiology, Blood plasma, Lambs, Lysine, Starvation, Urca.

Abstract: Concentration of lysinc in blood plasma was significantly higher in starved lambs.

17534-68

DUCK PLAGUE ON THE AMERICAN CONTINENT.

L Leibovitz J Hwang

*Avian Dis* 12(2):361-378 REF MAP

May 1968 41.8 AV5

Animal histology, Ducks, Epidemiology, Plague, Splccn, Virus diseases (animals).

17535-68

PATHOGENESIS AND INCIDENCE OF SPONTANEOUS GLOMERULONEPHRITIS (S.G.) IN SHEEP AND OTHER RUMINANTS. (ABSTRACT).

R A Lerncr

*Fed Amer Soc Exp Biol Fed Proc* 27(2):363

Mar 1968 442.9 F31P

Animal diseases, Glomerulonephritis, Mice, Pathology, Rabbits, Radioactive tracers, Sheep.

17536-68

A TECHNIQUE FOR THE DETERMINATION OF THE ACTION LEVEL OF INHIBITORS.

P Limasset

*Ann Epiphyt* 18:3-9

1967 464.9 F84AN

Injections, Methodology, Mosaic (tobacco), Plant injuries, Virus diseases (plants). English and German summary

17537-68

RESPIRATION OF BOVINE SPERMATOZOA IN THE PRESENCE OF ALPHAMETHYLBENZYL 3-(DIMETHOXYPHOSPHINYLOXY)-CIS-CROTONATE (CIODRIN) IN VARIOUS CONCENTRATE MIXTURES. (ABSTRACT).

J R Lodge

*J Dairy Sci* 51(6):965

Jun 1968 44.8 J822

Biochemistry, Cattle, Cells, Ciodrin, Insecticides, Respiration, Semen, Spermatozoa.

17538-68

CHARACTERIZATION OF RECEPTORS AND LYSOSOMES OF CELLS SUSCEPTIBLE TO INFECTIOUS BRONCHITIS VIRUS.

P D Lukert

*Diss Abstr Sect B* 28(9):3802B

Mar 1968 Z5055.U49D53

Acid phosphatase, Animal diseases, Eggs, Infectious bronchitis virus, Kidneys, Liver, Lungs, Lysosomes.

17539-68

THE PREVALENCE OF CANINE TOXOPLASMOSES IN NIIGATA PREFECTURE, JAPAN WITH SPECIAL REFERENCE TO ISOLATION OF TOXOPLASMA FROM DIAPHRAGM MUSCLE SAMPLES. (JA)

T Maitani M Yokoyama

*Jap J Parasitol* 16(3):147-155 REF

Jun 1967 436.8 J27

Animal histology, Dogs, Immunodiagnosis, Toxoplasmosis. English summary

Abstract

17540-68

ISOLATION OF MIRCObACTERIUM TUBERCULOSIS HUMAN TYPES FROM THE ORGANS OF HOME-PRODUCED POULTRY. (SL)



- P Markovic S Zakula B Nikolic Z Ljesevic  
*Vet Glas* 22(2):101-103  
1968 41.8 J93  
Animal diseases, Animal morphology, Bacteriology, Biology, Chickens, Human diseases, Liver, Poultry, Tuberculosis. Russian and English summaries
- 17541-68**  
**ISOLATION OF BRUCELLA ABORTUS FROM GOATS AND SHEEP IN THE PUNJAB.**  
T N Mathur  
*Indian J Vet Sci Anim Husband* 37(4):277-286  
Dec 1967 41.8 IN22  
Antigens, Brucella abortus, Brucella melitensis, Goats, Milk, Sheep, Virus diseases (animals).
- 17542-68**  
**OBSERVATIONS ON BLOOD COPPER IN SHEEP. I. NORMAL COPPER STATUS AND VARIATIONS INDUCED BY DIFFERENT CONDITIONS.**  
P J McCosker  
*Res Vet Sci* 9(1):91-101 REF  
Jan 1968 41.8 R312  
Blood, Cells, Copper, Research, Sheep.
- 17543-68**  
**EFFICACY OF NAPHTHALOPHOS AND COUMAPHOS AGAINST NEMATODES OF GOATS.**  
L R McDougald R G White M F Hansen  
*Amer J Vet Res* 29(5):1077-1079  
May 1968 41.8 AM3A  
Animal diseases, Coumaphos, Goats, Naphthalophos, Nematodes, Nematodirus, Oostertagiasis, Trichostrongylus.
- 17544-68**  
**AN EPIZOOTIC OF ASPERGILLOSIS IN CANADA GESE.**  
H C McDougle R W Vaught  
*J Wildlife Manage* 32(2):415-417  
Apr 1968 410 J827  
Aspergillosis, Epizootic diseases, Geese, Mycosis, Pneumonia, Respiratory diseases.  
Abstract: Geese had varying degrees of pulmonary aspergillosis; 3 distinct stages of mycotic pneumonia were recorded.
- 17545-68**  
**LINOLEIC ACID REQUIREMENT OF THE HEN FOR REPRODUCTION.**  
H Menge  
*J Nutr* 95(4):578-582 REF  
Aug 1968 389.8 J82  
Animal nutrition, Calorific value, Chickens, Diet, Linoleic acid, Reproduction.
- 17546-68**  
**EXPERIMENTAL PARATUBERCULOSIS IN SHEEP AFTER ORAL, INTRATRACHEAL, OR INTRAVENOUS INOCULATION: SEROLOGIC AND INTRADERMAL TESTS.**  
R S Merkal A B Larsen K E Kopecky J P Kluge W S Monlux R P Lehmann L Y Quinn  
*Amer J Vet Res* 29(5):963-969 REF  
May 1968 41.8 AM3A  
Bacteria, Dermatology, Immunization, Injections, Johne's disease, Mouth, Serological tests, Sheep, Trachea.  
Abstract: Hemagglutinating and complement-fixing antibodies disappeared while lambs were still severely infected, but precipitins continued to increase as the infection became more severe and decreased as lambs recovered.
- 17547-68**  
**EXPERIMENTAL PARATUBERCULOSIS IN SHEEP AFTER ORAL, INTRATRACHEAL, OR INTRAVENOUS INOCULATION: HISTOCHEMICAL LOCALIZATION OF DEHYDROGENASE ACTIVITIES.**  
R S Merkal W S Monlux J P Kluge A B Larsen K E Kopecky L Y Quinn R P Lehmann  
*Amer J Vet Res* 29(5):971-982 REF  
May 1968 41.8 AM3A  
Dehydrogenases, Histochemistry, Immunization, Injections, Johne's disease, Mouth, Sheep, Trachea.
- 17548-68**  
**EXPERIMENTAL PARATUBERCULOSIS IN SHEEP AFTER ORAL, INTRATRACHEAL, OR INTRAVENOUS INOCULATION: HISTOCHEMICAL LOCALIZATION OF HYDROLASE ACTIVITIES.**  
R S Merkal J P Kluge W S Monlux A B Larsen K E Kopecky L Y Quinn R P Lehmann  
*Amer J Vet Res* 29(5):985-994  
May 1968 41.8 AM3A  
Histochemistry, Hydrolases, Immunization, Injections, Johne's disease, Mouth, Sheep, Tissues, Trachea.
- 17549-68**  
**THE ROLES OF VITAMIN E, SELENIUM, AND METHIONINE IN DIETARY LIVER NECROSIS AND NUTRITIONAL MUSCULAR DYSTROPHY IN THE PIG.**  
R L Michel  
*Diss Abstr Sect B* 28(9):3764B  
Mar 1968 Z5055.U49D53  
Animal nutrition, Deficiency diseases, Diet, Liver, Methionine, Muscular dystrophy, Necrosis, Selenium, Swine, Vitamin e.
- 17550-68**  
**TOXIC SUBSTANCES IN ALFALFA HAY. (ABSTRACT).**  
G P Mohanty C W Carlson H H Voelker N A Jorgensen  
*J Dairy Sci* 51(6):984  
Jun 1968 44.8 J822  
Alfalfa, Chickens, Chloroform, Distilled water, Hay, Toxicology.
- 17551-68**  
**ISOLATION OF A PARAVACCINIA VIRUS FROM A COW IN JAPAN. (JA)**  
C Morita H Izawa M Soekawa  
*Jap J Vet Sci* 29(4):171-175 REF  
Aug 1967 41.8 J27  
Culture media, Dairy cattle, Livestock diseases, Poxviruses, Pseudocowpox, Udders, Virus diseases (animals).
- 17552-68**  
**PASSAGE OF ANTIBIOTICS THROUGH THE DIGESTIVE TRACT OF NORMAL AND SCOURING CALVES AND THEIR EFFECT UPON THE BACTERIAL FLORA.**  
P J Mylrea  
*Res Vet Sci* 9(1):5-13  
Jan 1968 41.8 R312  
Antibiotics, Bacteria, Calves, Dihydrostreptomycin, Dysentery, Gastrointestinal system, Milk, Neomycin.  
Abstract: Neither antibiotic eliminated Salmonella.
- 17553-68**  
**PHYSICO-CHEMICAL STUDIES OF NEWCASTLE DISEASE VIRUS. III. THE CONTENT OF VIRUS NUCLEIC ACID AND ITS SEDIMENTATION PATTERN.**  
H Nakajima J Obara  
*Arch Gesamte Virusforsch* 20(3):287-295 REF  
1967 448.3 AR23  
Biophysics, Molecular weight, Newcastle disease virus, Nucleic acids, Physical chemistry, Virology.  
Abstract
- 17554-68**  
**SURVIVABILITY OF THE FOOT-AND-MOUTH DISEASE VIRUS OUTSIDE THE HOST. TRANSL. I6891.**  
I Nauruzbayev  
23 P.  
Barns, Cattle, Foot-and-mouth disease virus, Guinea pigs, Humidity, Injections, Measurement, Methodology, Research, Tables (data), Temperature. Translation from Trudy. 26:96-103, 1966. translated by C. C. Nikiforoff
- 17555-68**  
**CALCIUM STATUS STUDIES ON ADULT SHEEP.**  
T E Nelson A D Tillman  
*J Nutr* 93(4):475-479 REF  
Dec 1967 389.8 J82  
Animal nutrition, Animal physiology, Calcium, Deficiency diseases, Phosphorus, Sheep.  
Abstract: Postulated that renal phosphorus clearance was greater in the Ca-deficient sheep.
- 17556-68**  
**ALLEVIATION OF THE LEG ABNORMALITY IN ZINC-DEFICIENT CHICKS BY HISTAMINE AND BY VARIOUS ANTI-ARTHRITIC AGENTS.**  
F H Nielsen M L Sunoe W G Hoekstra  
*J Nutr* 94(4):527-533 REF  
Apr 1968 389.8 J82  
Animal abnormalities, Animal nutrition, Arthritis, Chicks, Deficiency diseases, Histamine, Zinc.  
Abstract
- 17557-68**  
**RELATIONSHIP OF HISTIDINE. ITS METABOLITES AND OTHER FACTORS TO THE ARTHRITIC SYNDROME IN ZINC-DEFICIENT CHICKS.**  
F H Nielsen  
*Diss Abstr Sect B* 28(11):4417B  
May 1968 Z5055.U49D53  
Amino acids, Animal nutrition, Arthritis, Chicks, Diet, Histidine, Legs, Metabolites, Temperature, Zinc.
- 17558-68**  
**PNEUMONIA DUE TO MYCOPLASMA IN GNOTOBIOTIC MICE. III LESIONS IN THE LUNGS OF GNOTOBIOTIC MICE AFTER MULTIPLE INTRANASAL INOCULATIONS OF BROTH CULTURES OF MYCOPLASMA PNEUMONIAE.**  
A B Organick I I Lutsky  
*J Bacteriol* 95(6):2310-2316 REF  
Jun 1968 448.3 J82  
Animal diseases, Germ-free life, Mice, Mycoplasma, Pneumonia.  
Abstract
- 17559-68**  
**CELLULAR IMMUNITY OF MICE INFECTED WITH LISTERIA MONOCYTOGENES IN DIFFUSION CHAMBERS.**  
J W Osebold R A DiCapua  
*J Bacteriol* 95(6):2158-2164 REF  
Jun 1968 448.3 J82  
Animal diseases, Antibodies, Immunity, Listeria monocytogenes, Mice.  
Abstract
- 17560-68**  
**EFFECTS OF FREEZING ON AFRICAN HORSE-SICKNESS VIRUS. (ABSTRACT).**  
Y Ozawa S Bahrami  
*Fed Amer Soc Exp Biol Fed Proc* 27(2):562  
Mar 1968 442.9 F31P  
African horse sickness virus, Culture media, Freezing, Research, Salts, Sugars, Temperature.
- 17561-68**  
**INTESTINAL ELECTROLYTE DISTRIBUTION AND CA45 AND SR89 INSORPTION IN CALVES.**  
S C Perry  
*Diss Abstr Sect B* 28(9):3858B  
Mar 1968 Z5055.U49D53  
Animal metabolism, Calcium isotopes, Calves, Chemistry, Intestines, Strontium isotopes.
- 17562-68**  
**SUSCEPTIBILITY OF CHICKS WITH GENETIC MUSCULAR DYSTROPHY TO GOUT INDUCED BY HIGH PROTEIN DIETS. (ABSTRACT).**  
D W Peterson W H Hamilton R Matson  
*Fed Amer Soc Exp Biol Fed Proc* 27(2):416  
Mar 1968 442.9 F31P

17563-68

Animal genetics, Animal metabolism, Chicks, Diet, Gout, Mortality, Muscular dystrophy, Proteins.

17563-68

IN VITRO POTENCY TESTS FOR ANTI-HOG CHOLERA ANTIBODIES: A TEST FOR ANTI-HOG CHOLERA SERUMS AND A TEST FOR HERD EXPOSURE.

C E Phillips

*Amer J Vet Res* 29(5):1097-1102

May 1968 41.8 AM3A

Antibodies, Culture media, Hog cholera, Serological tests, Serum, Swine, Virus diseases (animals).

Abstract: Large numbers of coverslip monolayer cell cultures were processed rapidly with apparatus of special design.

17564-68

SUSCEPTIBILITY OF CULTURED MAMMALIAN CELLS TO INFECTION WITH VIRULENT AND MODIFIED HOG CHOLERA VIRUSES.

E C Pirtle A J Kniazoff

*Amer J Vet Res* 29(5):1033-1040 REF

May 1968 41.8 AM3A

Antibodies, Antigens, Cells, Culture media, Hog cholera, Immunity, Mammals, Virus diseases (animals).

17565-68

METABOLIC MECHANISMS AFFECTING AFLATOXIN B, TOXICITY IN TWO SPECIES. (ABSTRACT).

R Portman T C Campbell K Plowman

*Fed Amer Soc Exp Biol Fed Proc* 27(2):839

Mar 1968 442.9 F31P

Aflatoxin, Animal metabolism, Glucose, Liver, Mice, Rats, Toxicology.

17566-68

INFECTIOUS INHERITANCE OF PATHOGENICITY IN ASPERGILLUS. (ABSTRACT).

D M Purnell G M Martin G L Dorn

*Fed Amer Soc Exp Biol Fed Proc* 27(2):477

Mar 1968 442.9 F31P

Aspergillus nidulans, Fetal death, Mice, Phytopathology, Plant genetics.

17567-68

INTERACTIONS OF SERA AND LEUCOCYTES IN VITRO ON CELLS TRANSFORMED BY ROUS SARCOMA VIRUS. (ABSTRACT).

H Rabin

*Fed Amer Soc Exp Biol Fed Proc* 27(2):429

Mar 1968 442.9 F31P

Antibodies, Cells, Chickens, Culture media, Immunization, Rous sarcoma virus, Serum.

17568-68

CONGENITAL GOITRE IN MERINO SHEEP DUE TO AN INHERITED DEFECT IN THE BIOSYNTHESIS OF THYROID HORMONE.

R Rac G N Hill R W Pain C J Mulhearn

*Res Vet Sci* 9(3):209-223 REF

May 1968 41.8 R312

Animal diseases, Animal genetics, Blood tests, Goiter, Hereditary diseases, Hormones, Lambs, Mortality, Research.

17569-68

THEILERIASIS IN TEXAS WHITE-TAILED DEER.

R M Robinson K L Kuttler J W Thomas R G

Marburger

*J Wildlife Manage* 31(3):455-459 MAP

Jul 1967 410 J827

Deer, Immunization, Insect vectors, Theileriasis, Wildlife diseases.

Abstract: Five splenectomized and five nonsplenectomized fawns were inoculated with blood from a parasitized deer; one fawn died. Surviving splenectomized deer did not regain preinoculation erythrocyte values. No signs of infection were seen in the nonsplenectomized deer.

17570-68

IMMUNITY TO EIMERIA BRUNETTI AND EIMERIA MAXIMA INFECTIONS IN THE FOWL.

M E Rose

*Parasitology* 57(2):363-370 REF

May 1967 448.8 P21

Animal diseases, Coccidiosis, Experiment stations, Injections, Intestines, Poultry.

17571-68

PENICILLIN CONCENTRATION IN CANINE BLOOD AND URINE AFTER INTRAMUSCULAR INJECTION.

I H Siddique W Battle G T Blackledge

*Amer Vet Med Ass J* 152(6):631-633

15 Mar 1968 41.8 AM3

Animal diseases, Blood, Dogs, Dosage, Drugs, Injections, Muscles, Penicillin, Procaine, Sodium, Therapeutics, Urine.

17572-68

NITROFURANS AND ANTIBIOTIC THERAPY OF ARTIFICIALLY INDUCED SWINE SALMONELLOSIS.

V K Singh

*Amer Vet Med Ass J* 153(1):65-68 REF

01 Jul 1968 41.8 AM3

Antibiotics, Autopsies, Nitrofurans, Salmonellosis, Swine, Therapeutics.

Abstract

17573-68

PATHOGENESIS OF STAPHYLOCOCCAL SYNOVITIS IN TURKEYS: CULTURAL RETRIEVAL IN EXPERIMENTAL INFECTION.

R A Smart M L Miner R V Davis

*Avian Dis* 12(1):37-46 REF

Feb 1968 41.8 AV5

Infectious synovitis, Septicemia, Turkeys.

17574-68

THE EFFECT OF DIETARY MG AND F ON BONE CALCIFICATION IN CHICKS. (ABSTRACT).

F Spierto J C Rogler H E Parker

*Fed Amer Soc Exp Biol Fed Proc* 27(2):312

Mar 1968 442.9 F31P

Animal nutrition, Bones, Chicks, Culture media, Diet, Iron, Magnesium.

17575-68

BEDSONIA ABORTION OF SHEEP. I. AETIOLOGICAL STUDIES.

M J Studdert D G Mc Kercher

*Res Vet Sci* 9(1):48-56 REF

Jan 1968 41.8 R312

Abortion, Bedsonia virus, Etiology, Injections, Research, Sheep, Virus diseases (animals).

17576-68

EFFECT OF ROUS SARCOMA VIRUS INFECTION ON THE INHIBITION OF NUCLEOLAR RNA- AND DNA SYNTHESIS BY ACTINOMYCIN D IN CHICKEN FIBROBLASTS: RADIOAUTOGRAPHIC LOCALIZATION OF VIRAL RNA SYNTHESIS IN NUCLEOLI. (ABSTRACT).

R G Suskind T Pry G Rabotti

*Fed Amer Soc Exp Biol Fed Proc* 22(2):715

Mar 1968 442.9 F31P

Actinomycin d, Autoradiography, Biosynthesis, Chickens, Deoxyribonucleic acid, Ribonucleic acid, Rous sarcoma virus, Viruses.

17577-68

SPERM OUTPUT OF BULLS AND PRODUCTION BY COWS FED SUPPLEMENTAL VITAMINS. (ABSTRACT).

J W Thomas D Hillman H D Hafs

*J Dairy Sci* 51(6):979

Jun 1968 44.8 J822

Alfalfa, Animal nutrition, Bulls, Cattle, Corn, Feeding, Hay, Injections, Lactation, Semen, Spermatozoa, Vitamin a, Vitamin d, Vitamin e.

17578-68

SELENIUM DEFICIENCY IN CHICKS AND ITS EFFECT ON THE REQUIREMENT FOR VITAMIN E. (ABSTRACT).

J N Thompson M L Scott

*Fed Amer Soc Exp Biol Fed Proc* 27(2):417

Mar 1968 442.9 F31P

Amino acids, Chemurgy, Chicks, Deficiency diseases, Diet, Exudative diathesis, Micronutrients, Mortality, Selenium, Vitamin c.

17579-68

TRANSMISSIBLE ENTERITIS OF TURKEYS-DISEASE REPRODUCTION.

R B Truscott

*Avian Dis* 12(2):239-245

May 1968 41.8 AV5

Animal diseases, Culture media, Enteritis, Immunization, Reproduction, Transmissible gastroenteritis, Turkeys.

17580-68

VASCULAR DISEASE IN ORGANOMERCURIAL POISONING IN SWINE. (ABSTRACT).

L Tryphonas O Nielsen

*Fed Amer Soc Exp Biol Fed Proc* 27(2):612

Mar 1968 442.9 F31P

Animal diseases, Circulatory system, Lesions, Mercury, Organic compounds, Swine, Toxicology.

17581-68

YELLOW PIGMENTS EXCRETED BY VITAMIN A-DEPLETED SHEEP.

R E Tucker G E Mitchell C O Little

*J Nutr* 93(4):518-522 REF

Dec 1967 389.8 J82

Animal nutrition, Cecum, Colon, Deficiency diseases, Feces, Gastrointestinal system, Sheep, Vitamin a.

17582-68

THE ABSORPTION OF ZINC AND OLEIC ACID FROM DIGESTIVE TRACTS PARASITIZED IN THE ILEUM, CECA, AND COLON. (ABSTRACT).

D E Turk J F Stephens

*Fed Amer Soc Exp Biol Fed Proc* 27(2):421

Mar 1968 442.9 F31P

Coccidiosis, Eimeria acervulina, Eimeria brunetti, Eimeria necatrix, Eimeria tenella, Intestinal absorption, Oleic acid, Parasitism, Zinc.

17583-68

ENZOOTIC PNEUMONIA OF SHEEP IN THE MAFFKING DISTRICT.

R R Van Der Weert I F Zumpt

*S Afr Vet Med Ass J* 38(4):415-419

Dec 1967 41.8 SO8

Bacteria, Drug therapy, Enzootic pneumonia, Immunization, Livestock diseases, Pasteurella haemolytica, Pasteurella multocida, Pneumonia, Sheep, Vaccines.

17584-68

MEASUREMENT OF THE ANTITHYROTOXIC FACTOR CONTENT OF VARIOUS ROUGHAGES AND COW FECES. (ABSTRACT).

R W Wallenius J W Hibbs H R Conrad

*J Dairy Sci* 51(6):984

Jun 1968 44.8 J822

Animal nutrition, Animal physiology, Biological assay, Cattle, Feces, Feed, Measurement, Roughage, Thyroid gland, Toxicology.

17585-68

NIACIN REQUIREMENT OF GROWING MINK.

R G Warner H F Travis C F Bassett B McCarthy

R P Abernathy

*J Nutr* 95(4):563-568

Aug 1968 389.8 J82

Animal nutrition, Animal physiology, Deficiency diseases, Diet, Metabolism, Minks, Nicotinic acid.

17586-68

VARIABILITY IN HEMATOLOGICAL RESPONSE OF CHICKS FED IRON-COPPER DEFICIENT SKIM MILK DIET. (ABSTRACT).

K W Washburn



*Fed Amer Soc Exp Biol Fed Proc* 27(2):481  
Mar 1968 442.9 F31P  
Animal nutrition, Chemurgy, Chicks, Copper, Deficiency diseases, Diet, Hematology, Iron, Skim milk.

17587-68

**METABOLISM OF 75SE-SELENITE AND 75SE-SELENOMETHIONINE BY RUMEN MICROORGANISMS. (ABSTRACT).**

P D Whanger P H Weswig O H Muth  
*Fed Amer Soc Exp Biol Fed Proc* 27(2):418  
Mar 1968 442.9 F31P

Animal nutrition, Chemurgy, Chromatography, Microorganisms, Pronase, Proticins, Radioactive tracers, Rumen, Selenite, Selenium, Selenomethionine.

17588-68

**INVESTIGATIONS ON TERATOGENIC EFFECTS OF DIETARY NITRATE IN THE RAT AND EXCESS VITAMIN A IN THE DOG.**

D O Wicrsig  
*Diss Abstr Sect B* 28(9):3815B  
Mar 1968 Z5055.U49D53

Animal abnormalities, Diet, Dogs, Feed additives, Potassium nitrite, Pregnancy, Rats, Vitamin a.

17589-68

**SUSCEPTIBILITY OF TURKEYS TO INFECTIOUS LARYNGOTRACHEITIS.**

R W Winterfield I G So  
*Avian Dis* 12(1):191-202 REF  
Feb 1968 41.8 AV5

Chick embryos, Infectious laryngotracheitis virus, Turkeys.

17590-68

**BRUCELLOSIS. DESIGNATION OF MODIFIED CERTIFIED BRUCELLOSIS, AREAS, PUBLIC STOCKYARDS, SPECIFICALLY APPROVED STOCKYARDS AND SLAUGHTERING ESTABLISHMENTS.**

G H Wise  
*Fed Regist* 33(138,PT.1):10201-10202  
17 Jul 1968 L1.451

Agricultural regulation, Brucellosis, Livestock diseases, Slaughterhouses, Stockyards.

17591-68

**STUDIES ON TRANSMISSIBLE GASTROENTERITIS VIRUS OF PIGS.**

K H M Witte  
*Diss Abstr Sect B* 28(11):4368B-4369B  
May 1968 Z5055.U49D53

Culture media, Cytology, Kidneys, Research, Salivary glands, Serological tests, Swine, Thyroid gland, Transmissible gastroenteritis.

17592-68

**RENAL EFFECTS OF CARBON TETRACHLORIDE IN THE CAT.**

L C K Wong  
*Diss Abstr Sect B* 28(9):3817B  
Mar 1968 Z5055.U49D53

Animal metabolism, Blood plasma, Carbon tetrachloride, Cats, Fats, Glycerides, Kidneys, Lipids.

17593-68

**EFFECT OF ENDOGENOUS INTERFERON AND ACTINOMYCIN D ON GROWTH OF JAPANESE ENCEPHALITIS VIRUS IN CHICK EMBRYO CELLS.**

S Yamazaki  
*Jap J Microbiol* 12(2):171-178 REF  
Jun 1968 448.8 J273

Actinomycin d, Antibiotics, Chickens, Interferon, Japanese b encephalitis virus, Tissue culture, Virucides.

Abstract

17594-68

**STUDIES ON PATHOGENIC LEPTOSPIRAE. VI. EFFECT OF TWEEN 80 ON THE GROWTH OF LEPTOSPIRA CANICOLA AND LEPTOSPIRA ICTEROHAEMORRHAGIAE.**

Y Yanagihara I Mifuchi  
*Jap J Microbiol* 12(2):145-149 REF

Jun 1968 448.8 J273

Antimetabolites, Leptospira canicola, Leptospira icterohaemorrhagiae, Metabolism, Physiology.

Abstract

17595-68

**COMPARATIVE DRUG METABOLISM IN FIVE MAMMALIAN SPECIES. (ABSTRACT).**

B Zook R M Cook  
*J Dairy Sci* 51(6):981  
Jun 1968 44.8 J822

Animal physiology, Cattle, Drugs, Enzymes, Goats, Liver, Mammals, Metabolism, Pesticides, Rats, Sheep, Swine.

## ARTHROPODS

17596-68

**TICK INFESTATION OF LIVESTOCK IN NATAL. I. THE PREDILECTION SITES AND SEASONAL VARIATIONS OF CATTLE TICKS.**

M K Baker F B W Ducasse  
*S Afr Vet Med Ass J* 38(4):447-453  
Dec 1967 41.8 SO8

Cattle, Chemical control (insects), Climate, Insect behavior, Insect dissemination, Insect ecology, Insect vectors, Ixodides.

17597-68

**INSECT-BORNE ANIMAL DISEASES ARE TARGETS FOR NEW ZEALAND VIGILANCE.**

G A Helson  
*New Zeal J Agr* 117(2):58-59  
Aug 1968 23 N48J

Aircraft disinfection, Animal quarantine, Insect control, Insect vectors, Sanitation. Quarantine and aircraft disinfection procedures are primary precautions in New Zealand's vigilance against introduction of insects bearing animal diseases.

## PARASITES

17598-68

**EXPLORATIONS FOR VARIATIONS IN THE PATHOGENICITY OF HAEMONCHUS CONTORTUS ISOLATES.**

G W Benz  
*Diss Abstr Sect B* 28(11):4368  
May 1968 Z5055.U49D53

Anemia, Animal diseases, Haemonchus contortus, Hematologic diseases, Hemoglobin, Population, Research, Sheep.

17599-68

**STUDIES ON PATHOGENICITY AND FATTY ACID COMPOSITION OF RAILLIETINA CESTICILLUS (CESTODA).**

H Botero  
*Diss Abstr Sect B* 28(10):3948B  
Apr 1968 Z5055.U49D53

Animal physiology, Cestoda, Chicks, Chromatography, Diet, Fatty acids, Feeding, Linolic acid, Parasitism, Raillietina cesticillus, Tribolium.

17600-68

**BENZIMIDAZOLE ANTHELMINTIC COMPOSITIONS AND METHOD OF USE. PATENT 3,326,753.**

H D Brown  
*Us Patent Office Offic Gaz* 839(3):1112  
20 Jun 1967 156.65 OF2

Anthelmintics, Benzimidazole, Helminthiasis, Patents.

17601-68

**CRUZIA BRASILIENSIS SP. N. (NEMATODA-CRUZIIDAE) PARASITE OF SUS DOMESTICUS. (SP)**

H M A Costa  
*Minas Gerais Univ Escol Vet Arq* 17:61-69 REF  
1965 41.9 M662

Cruzia brasiliensis, Nematodes, Parasitism, Swine, Taxonomy. English summary

Abstract

17602-68

**EXPERIMENTAL TRICHOSTRONGYLUS COLUBRIFORMIS INFECTION IN ADULT GOATS.**

W M Fitzsimmons E T Harness S A Sellwood  
*Res Vet Sci* 9(3):237-247 REF  
May 1968 41.8 R312

Animal abnormalities, Animal histology, Dosage, Goats, Helminthiasis, Hematology, Immunity, Laboratory animals, Larvae, Research, Trichostrongylus colubriformis.

17603-68

**PARASITIC HYPOALBUMINAEMIA: STUDIES ON TYPE II OSTERTAGIASIS OF CATTLE.**

G J Halliday W Mulligan R G Dalton  
*Res Vet Sci* 9(3):224-227 REF  
May 1968 41.8 R312

Albumins, Cattle, Chemical control (nematodes), Electrophoresis, Gastrointestinal system, Iodine isotopes, Measurement, Metabolism, Nematodes, Ostertagiasis, Parasitism, Proteins, Research, Serum.

17604-68

**THE ROUTINE DIFFERENTIATION OF THE OVA AND LARVAE OF TWO PARASITES OF SWINE, HYOSTRONGYLUS RUBIDUS (HASSELL ET STILES, 1892) AND OESOPHAGOSTOMUM DENTATUM (RUD., 1803).**

M R Honer  
*Z Parasitenk* 29(1):40-45  
1967 442.8 Z33F

Hyostrogylus rubidus, Oesophagostomum dentatum, Parasites, Swine.

Abstract

17605-68

**OBSERVATIONS ON THE EARLY MIGRATION OF THE LARVAE OF ASCARIS SUUM GOEZE, 1782 IN WHITE MICE.**

D C Jenkins  
*Parasitology* 58(2):431-440 REF  
May 1968 448.8 P21

Anatomy, Ascaris lumbricoides suum, Insect migration, Larvae, Mice, Parasitism, Research.

17606-68

**STUDY OF THE EFFICACY OF HALOXON AGAINST TRICHINELLA SPIRALIS. (SP)**

A Martinez Fernandez M Cordero Del Campillo B Aller Gancedo  
*Oviedo Univ Fac Vet Leon An* 12(12):251-265 REF

1966 41.9 OV4

Anthelmintics, Haloxon, Hamsters, Rats, Trichinella spiralis. Spanish, French, English, and German summaries.

Abstract

17607-68

**HELMINTHIC INFESTATIONS OF PIGLETS WITH REFERENCE TO LESIONS ENCOUNTERED.**

G S Mishra B P Pande  
*Indian J Vet Sci Anim Husb* 37(3):143-149 REF  
Sep 1967 41.8 IN22

Ascaris lumbricoides suum, Baby pigs, Helminthiasis, Livestock diseases, Nematodes, Parasitism.

Abstract: A. lumbricoides suum is greatest significance because of the extensive injury in causes by migration. In heavy infestations it greatly affects the hepatic and pulmonary tissues.

17608-68

**EXPERIMENTAL STUDIES ON TOXASCARIS LEONINA. IV. DEVELOPMENT OF EGGS OF THREE ASCARIDS, T. LEONINA, TOXOCARA CANIS AND TOXOCARA CATI, IN DOGS AND CATS.**

S Okoshi M Usui  
*Jap J Vet Sci* 30(1):29-38 REF  
Feb 1968 41.8 J27

Cats, Dogs, Feces, Physiology, Research, Temperature, Toxascaris leonina, Toxocara canis, Toxocara cati. Japanese summary

## LIVESTOCK PROTECTION

17609-68

17609-68  
EXPERIMENTAL STUDIES ON ANCYLOSTOMIASIS IN CATS. VI. VISCERAL MIGRATION OF LARVAE OF ANCYLOSTOMA TUBAIFORME AND A. CANINUM IN DOGS.

S Okoshi Y Murata  
*Jap J Vet Sci* 30(1):43-51 REF  
Feb 1968 41.8 J27

Ancylostoma caninum, Ancylostoma tubaeforme, Ancylostomiasis, Biological transport, Cats, Dogs, Larvae, Parasitism, Viscera. English summary

17610-68

INTESTINAL MALABSORPTION OF D-GLUCOSE IN MICE INFECTED WITH TRICHINELLA SPIRALIS.

L J Olson J A Richardson  
*J Parasitol* 54(3):445-451 REF  
Jun 1968 448.8 J824

Animal diseases, D-glucose, Intestinal absorption, Larvae, Mice, Parasitism, Trichinella spiralis, Trichinosis.

17611-68

THREE NEW COCCIDIA PARASITIC IN CUBAN BIRDS. (PROTOZOA: SPOOROZOA).

L Pellerdy  
*Acta Zool (budapest)* 13(1-2):227-230  
1967 410 AC85

Birds, Coccidiosis, Sporozoa, Taxonomy. Russian summary

17612-68

THE EFFECT OF SPLENECTOMY UPON INFECTION WITH EIMERIA TENELLA.

M E Rose  
*Parasitology* 58(2):481-487 REF  
May 1968 448.8 P21

Bursectomy, Chickens, Eimeria tenella, Insect control, Research, Spleen extract.

17613-68

FASCIOLIASIS IN CATTLE: A STUDY OF THE DISEASE IN THE FIELD.

J G Ross T C Geary J C McM Welsh  
*Irish Vet J (N.S.)* 22(5):82-87 REF  
May 1968 41.8 IR4

Cattle, Fasciola hepatica, Fascioliasis, Liver, Livestock diseases, Parasitism.

17614-68

BIOCHEMICAL OBSERVATIONS OF ASCARIS SUUM LUNG-STAGE LARVAE.

H J Saz O L Cure E Bueding  
*J Parasitol* 54(3):457-461 REF  
Jun 1968 448.8 J824

Ascaris lumbricooides suum, Biochemistry, Guinea pigs, Larvae, Lungs, Nematodes, Parasitism.

17615-68

HETEROLOGOUS IMMUNITY IN AVIAN HOSTS INFECTED WITH PLASMODIUM RELICTUM AND PLASMODIUM LOPHURAE (SPOOROZOA: HAEMOSPORINA).

A A Shahidi  
*Diss Abstr Sect B* 28(10):4357B  
Apr 1968 Z5055.U49D53

Antigens, Chickens, Electrophoresis, Immunity, Injections, Parasitism, Plasmodium lophurac, Plasmodium relictum.

17616-68

CONTRIBUTION TO THE KNOWLEDGE OF PARASITIC FAUNA IN FOWLS WITHIN SERBIA. V. ECTOPARASITES OF FOWLS IN THE VICINITY OF LAZAREVAC. (CZ)

R Slijepcevic-Jovanovic  
*Vet Glas* 22(3):199-201  
1968 41.8 J93

Chickens, Ducks, Geese, Parasitism, Poultry, Research, Turkeys. English and Russian summaries

17617-68

HELMINTHS, ARTHROPODS AND PROTOZOA OF DOMESTICATED ANIMALS, (SIXTH EDITION OF MONNIG'S VETERINARY HELMINTHOLOGY AND ENTOMOLOGY). SF810.0M6.

E J L Soulsby

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824 P. BALTIMORE WILLIAMS AND WILKINS COMPANY

1968  
Arthropoda, Helminthiasis, Livestock, Protozoa.

17618-68

TRANSMAMMARY PASSAGE OF ANCYLOSTOMA CANINUM LARVAE IN DOGS.

W M Stone M Girardeau  
*J Parasitol* 54(3):426-429 REF  
Jun 1968 448.8 J824

Ancylostoma caninum, Animal diseases, Dogs, Larvae, Mammary glands, Toxocara canis, Uterus.

17619-68

ESCHERICHIA COLI IN ENTERIC DISEASE OF SWINE: OBSERVATIONS ON HERD RESISTANCE.

E J Sweeney  
*Irish Vet J (N.S.)* 3(22):42-46 REF  
Mar 1968 41.8 IR4

Enteritis, Escherichia coli, Genetics, Immunity, Livestock diseases, Swine.

17620-68

THE FEEDING PROCESSES OF THE CATTLE TICK BOOPHILUS MICROPLUS (CANESTRINI). II. THE SEQUENCE OF HOST-TISSUE CHANGES.

R J Tatchell D E Moorhouse  
*Parasitology* 58(2):441-459 REF  
May 1968 448.8 P21

Blood, Boophilus microplus, Cattle, Erythrocytes, Feeding, Histology, Secretions, Tissues.

17621-68

CALCIUM AND MAGNESIUM ABSORPTION IN THE YOUNG CALF FOLLOWING INDUCED PARASITISM, OSTERTAGIA SPP. (ABSTRACT).

L B Waymack S L Hansard  
*Fed Amer Soc Exp Biol Fed Proc* 27(2):421  
Mar 1968 442.9 F31P

Calcium, Chemurgy, Helminthiasis, Intestinal absorption, Larvae, Magnesium, Ostertagiasis.

## COMMODITY PROTECTION

### STORAGE DISEASES

17622-68

THE RAMIFICATIONS OF SALMONELLOSIS.

E E Dunton O C Raymond  
*Can J Public Health* 59(6):246-247  
Jun 1968 449.8 P964

Bacteria, Epidemiology, Food poisoning, Health, Human diseases, Packing, Salmonella typhimurium, Salmonellosis, Sanitation, Surveys, Typhoid.

### ARTHROPODS

17623-68

INSECT PESTS IN FOOD STORES.

*Great Brit Min Agr Fish Food Adv Leaflet* 483:8P.  
Mar 1968 10 G79LA

Food, Insect pests, Insecticides, Mites, Stegobium paniceum, Storage.

17624-68

TREATMENT OF SEEDS OF THE COMMON PINE TREE WITH FUNGICIDES. TRANSL. 16706.

V I Mosin  
*9 P.*  
1966

Chemicals, Fungicides, Fungus diseases (plants), Laboratories, Pinus, Seeds, Storage, Trees.

17625-68

ANTHRENU SARNICUS MROCZKOWSKI (COLEOPTERA, DERMESTIDAE) IN BRITAIN.

G E Woodroffe

*J Stored Prod Res* 3(3):263-265

Oct 1967 421 J829

Anthrenus sarnicus, Dermestidae, Great Britain, Household insects.

## RODENTS AND OTHER PESTS

17626-68

CARDIAC LESIONS IN THE OFFSPRING OF RATS FED COPPER DEFICIENT DIET WITH LOW-LEVEL MULTIPESTICIDE SUPPLEMENTATION. (ABSTRACT).

W A Kelly W W Carltón  
*Fed Amer Soc Exp Biol Fed Proc* 27(2):481  
Mar 1968 442.9 F31P

Carbaryl, Casein, Copper, Corn, Fats, Fetal death, Heart, Neoplasms, Parathion, Rats, Sucrose.

17627-68

ACQUIRED IMMUNITY TO FASCIOLA HEPATICA IN THE LABORATORY WHITE MOUSE.

B Z Lang  
*Amer J Trop Med Hyg* 17(4):561-567  
Jul 1968 448.8 AM326

Acanthocephala, Antigens, Histology, Immunity, Laboratories, Leukocytes, Mice, Trichinella spiralis.

## MICROBIAL CONTAMINATION

17628-68

THE BIOLOGY OF FUNGI BACTERIA VIRUSES. QR41.0S7.

G Stevenson  
*202 P. REF LONDON, EDWARD ARNOLD LIMITED*  
1967

Air, Bacteriophages, Biology, Cells, Ecology, Fungi, Habitats, Measurement, Metabolism, Microbiology, Morphology, Physiology, Soils, Tables (data), Water.

## ENVIRONMENTAL CONTAMINATION

17629-68

EFFECT OF POLLUTION OF AIR WITH OZONE ON FLAVOR OF SPRAY DRIED MILKS. (ABSTRACT).

F E Kurtz A Tamsma R L Selman M J Pallansch  
*J Dairy Sci* 51(6):935  
Jun 1968 44.8 J822

Air pollution, Food flavor, Milk, Ozone, Spraying.

17630-68

THE ACCUMULATION OF 36CL RING-LABELED DDT IN A FRESHWATER MARSH.

R L Meeks  
*J Wildlife Manage* 32(2):376-397 REF  
Apr 1968 410 J827

Aquatic animals, Aquatic plants, Chlorine isotopes, DDT, Insecticide residues, Marshes, Radioactive tracers.

Abstract: Plants and most invertebrates accumulated their highest residues during the first week; vertebrates required longer periods.

## RESIDUES

17631-68

THE INORGANIC BROMIDE CONTENT OF FOODSTUFFS DUE TO SOIL TREATMENT WITH FUMIGANTS.

H Beekman D G Crosby P T Allen C Mourer  
*J Food Sci* 32(1):138-140  
Jan 1967 389.8 F7322



Bromides, Dibromo-3-chloropropane, 1,2-, Ethylene dibromide, Food contamination, Fumigation, Pesticide residues, Soil contamination, Trimethylene chlorobromide.

Abstract

**17632-68**  
COMPARATIVE METABOLISM OF MALATHION-C IN PLANTS AND ANIMALS.

J B Bourke E J Broderick L R Hackler P C Lippold

*J Agr Food Chem* 16(4):585-589 REF

Jul 1968 381 J8223

Animals, Beans, Chromatography, Excreta, Extracts, Malathion, Pesticides, Plant metabolism, Radioactivity, Rats, Tissues.

**17633-68**  
INFLUENCE OF VARIOUS PERSISTENT CHLORINATED INSECTICIDES ON THE MACRO AND MICRO ELEMENT CONSTITUENTS OF ZEA MAYS AND PHASEOLUS VULGARIS GROWING IN SOIL CONTAINING VARIOUS AMOUNTS OF THESE MATERIALS.

H Cole D MacKenzie C B Smith E L Bergman

*Bull Environ Contamination Toxicol* 3(3):141-154

May 1968 RA1270.P35A1

Beans, Chlorine, Corn, Elements, Insecticides, Pesticide residues, Soil analysis.

**17634-68**  
HALOGENATED PESTICIDES; LOCALIZATION OF DIELDRIN IN WHEAT TISSUE.

R C Cotner R H Hamilton R O Mumma D E H Frear

*J Agr Food Chem* 16(4):608-609

Jul 1968 381 J8223

Dieldrin, Halogen compounds, Pesticides, Roots, Tissues, Wheat, X-rays, Xylem.

**17635-68**  
THE PHOTODECOMPOSITION OF DIELDRIN RESIDUES IN WATER.

G L Henderson G C Donald

*Bull Environ Contamination Toxicol* 3(3):131-134

May 1968 RA1270.P35A1

Aldrin, Chemical reactions, Decomposition, Dieldrin, Insecticides, Pesticide residues, Photochemistry, Water.

**17636-68**  
EXPOSURE TO INSECTICIDES IN QUEBEC.

Z Jegier J Brodeur

*Can J Public Health* 59(6):229-232

Jun 1968 449.8 P964

Accident prevention, Health, Insecticide residues, Insecticides, Research, Spraying, Summary in French

**17637-68**  
NOTICE OF AMENDED FILING OF PETITION REGARDING PESTICIDE CHEMICALS.

J K Kirk

*Fed Regist* 33(183):14184

19 Sep 1968 L1.451

Agricultural chemistry, Dalapon, Herbicide residues, Lemons, Toxicology.

**17638-68**  
NOTICE OF AMENDED FILING OF PETITION REGARDING PESTICIDES.

J K Kirk

*Fed Regist* 33(188):14480

26 Sep 1968 L1.451

Food plants, Fungi, Fungicides, Peanuts, Pesticide residues, Triphenyltin hydroxide.

**17639-68**  
NOTICE OF AMENDED FILING OF PETITION REGARDING PESTICIDES.

J K Kirk

*Fed Regist* 33(188):14480

26 Sep 1968 L1.451

Atrazine, Chemicals, Food plants, Herbicides, Pesticide residues, Pineapples, Rye, Wheat.

**17640-68**  
TOLERANCES AND EXEMPTIONS FROM TOLERANCES FOR PESTICIDES CHEMICALS IN OR ON RAW AGRICULTURAL COMMODITIES. DEMETON.

J K Kirk

*Fed Regist* 33(131):9774

06 Jul 1968 L1.451

Chemicals, Demeton, Food plants, Insecticides, Pesticide residues.

**17641-68**  
NOTICE OF FILING OF PETITION REGARDING PESTICIDE CHEMICALS.

J K Kirk

*Fed Regist* 33(188):14480

26 Sep 1968 L1.451

Bacillus thuringiensis, Chemicals, Food plants, Insecticides, Microorganisms, Pesticide residues, Spores.

**17642-68**  
NOTICE OF FILING OF PETITION REGARDING PESTICIDE CHEMICALS.

J K Kirk

*Fed Regist* 33(149,PT.1):10952

01 Aug 1968 L1.451

Apples, Biochemistry, Chemicals, Chloro-1-(2,4,5-trichlorophenyl) vinyl dimethyl phosphate, 2-, Chromatography, Insecticide residues, Insecticides, Pesticides, Phosphorus.

**17643-68**  
NOTICE OF AMENDED FILING OF PETITION REGARDING PESTICIDES.

J K Kirk

*Fed Regist* 33(162):11788

20 Aug 1968 L1.451

Alfalfa, Cattle, Corn, Endosulfan, Food plants, Insecticide residues, Insecticides, Mcat.

**17644-68**  
ETHION. PROPOSED ESTABLISHMENT OF PESTICIDE TOLERANCES.

J K Kirk

*Fed Regist* 33(155):11362

09 Aug 1968 L1.451

Agricultural legislation, Agricultural regulation, Ethion, Insecticide residues, Meat, Milk, Toxicology.

**17645-68**  
IMIDAN INSECTICIDE RESIDUES (IMIDAN AND IMIDOXON): THEIR PERSISTENCE IN CORN, GRASS, AND SOYBEANS.

D B Leuck M C Bowman

*J Econ Entomol* 61(3):705-707

Jun 1968 421 J822

Biochemistry, Chemical control (insects), Corn, Forage plants, Grasses, Imidan, Insecticide residues, Insecticides, Soybeans, Time.

**17646-68**  
NOTICE OF AMENDED FILING OF PETITION REGARDING PESTICIDES. DUGGAN, R E.

*Fed Regist* 33(178):12924

12 Sep 1968 L1.451

Animals, Chloro-N-isopropylacetanilide, 2-, Corn, Herbicide residues, Metabolites, Pesticides.

**17647-68**  
THE DEVELOPMENT OF ANALYTICAL METHODS FOR THE DETERMINATION OF CHLORINATED HYDROCARBON INSECTICIDES IN SOILS AND WATERS.

H B Pionke

*Diss Abstr Sect B* 28(11):4383B

May 1968 Z5055.U49D53

Assay, Chlorine, Chromatography, Hydrocarbons, Insecticide residues, Insecticides, Measurement, Soils, Water.

**17648-68**  
GAS CHROMATOGRAPHIC ANALYSIS OF MALATHION IN WATER AND IN FISH.

M T H Ragab

*Bull Environ Contamination Toxicol* 3(3):155-163

May 1968 RA1270.P35A1

Chromatography, Fish, Gases, Insecticides, Malathion, Pesticide residues, Water.

**17649-68**  
A SURVEY OF CHLORINATED PESTICIDE RESIDUES IN BLACK DUCK EGGS.

W L Reichel C E Addy

*Bull Environ Contamination Toxicol* 3(3):174-179,MAP

May 1968 RA1270.P35A1

Chlorine, Chromatography, Ducks, Eggs, Pesticide residues, Surveys.

**17650-68**  
DROSOPHILA ALCOHOL DEHYDROGENASE. PURIFICATION AND PARTIAL CHARACTERIZATION.

W Sofer H Ursprung

*J Biol Chem* 243(11):3110-3115 REF

10 Jun 1968 381 J824

Alcohol dehydrogenase, Centrifugation, Chromatography, Drosophila melanogaster, Electrophoresis, Enzymes, Extracts, Molecular weight.

**17651-68**  
AN EPIDEMIOLOGICAL STUDY OF PESTICIDE CONTAMINATION IN MILK ON AN OPERATING DAIRY FARM.

J W Stull W H Brown F M Whiting J M Witt

*Bull Environ Contamination Toxicol* 3(3):135-140

May 1968 RA1270.P35A1

Dairy cattle, Epidemiology, Feeds, Food contamination, Milk, Pesticide residues, Pesticides.

**17652-68**  
EFFECT OF SELECTED PESTICIDES ON QUALITY OF STRAWBERRIES.

J P Sweeney V J Chapman P A Hepner

*J Agr Food Chem* 16(4):632-634 REF

Jul 1968 381 J8223

Captan, Chlordane, Ferbam, Fungicides, Pesticide residues, Pesticides, Sampling (statistics), Soil testing, Strawberries.

**17653-68**  
HEPTACHLOR AND HEPTACHLOR EPOXIDE RESIDUES ON FALL-TREATED ALFALFA AND IN MILK AND COW TISSUE.

A C Waldron H E Kaeser D L Goleman J R

Staubus H D Miemczyk

*J Agr Food Chem* 16(4):627-631 REF

Jul 1967 381 J8223

Alfalfa, Cattle, Diet, Heptachlor, Heptachlor epoxide, Milk analysis, Sampling (statistics), Tissues.

**17654-68**  
EFFECTS OF CHARCOAL FEEDING ON DIELDRIN EXCRETION IN RUMINANTS. (ABSTRACT).

K A Wilson R M Cook R S Emery

*Fed Amer Soc Exp Biol Fed Proc* 27(2):558

Mar 1968 442.9 F31P

Animal metabolism, Charcoal, Dieldrin, Excretion, Feeding, Goats, Sheep.

## TOXICOLOGY

**17655-68**  
LABORATORY INVESTIGATIONS OF RESISTANCE TO WARFARIN OF RATTUS NORVEGICUS BERK. IN MONTGOMERYSHIRE AND SHROPSHIRE.

D C Drummond E J Wilson

*Ann Appl Biol* 61(2):303-312 REF

Apr 1968 442.8 AN72

Baits, Immunity, Laboratory animals, Mineral oil, Rattus norvegicus, Rodenticides, Rodents, Toxicology, Warfarin.

**17656-68**  
EFFECTS OF AFLATOXIN AND BENZOPYRENE ON MICROSOMAL HYDROXYLATION. (ABSTRACT).

H Gurtoo T C Campbell R Webb K Plowman

*Fed Amer Soc Exp Biol Fed Proc* 27(2):551

Mar 1968 442.9 F31P

Aflatoxin, Animal nutrition, Benzopyrene, Chemurgy, Microsomes.

**17657-68**  
**HETEROGENEITY OF CLOSTRIDIUM BOTULINUM TYPE A TOXIN.**

A H W Hauschild R Hilshcimer  
*Can J Microbiol* 14(7):805-807 REF  
Jul 1968 448.8 C162

Cells, Chromatography, Clostridium botulinum, Extracts, Heterogenesis, Molecular weight, Toxins.

**17658-68**  
**SPORIDESMIN POISONING IN THE SHEEP. II. A COMPARISON OF SOME CHANGES IN CLINICAL SIGNS AND SERUM CONSTITUENTS FOLLOWING SPORIDESMIN POISONING AND EXPERIMENTAL OBSTRUCTION OF THE COMMON BILE DUCT.**

D D Leaver  
*Res Vet Sci* 9(3):265-273 REF  
May 1968 41.8 R312

Bile ducts, Gamma globulins, Jaundice, Laboratory animals, Poisoning, Research, Serum, Sheep, Sporidesmin, Zinc sulfate.

**17659-68**  
**SPORIDESMIN POISONING IN THE SHEEP. I. CHANGES IN BILE SECRETION AND THE EXCRETION OF SPORIDESMIN IN BILE.**

D D Leaver  
*Res Vet Sci* 9(3):255-264 REF  
May 1968 41.8 R312

Assay, Bile, Carbon tetrachloride, Gallbladder, Jaundice, Poisoning, Research, Serum, Sheep, Sporidesmin, Toxicology.

**17660-68**  
**IMMUNIZATION WITH NATIVE, INCRIMINATED WASP VENOM IN STING ALLERGY: 12-YR STUDY OF SAFETY AND EFFECTIVENESS OF A SINGLE VISIT, YEARLY COURSE. (ABSTRACT).**

M H Loveless  
*Fed Amer Soc Exp Biol Fed Proc* 27(2):368  
Mar 1968 442.9 F31P

Allergies, Hymenoptera, Immunization, Toxicology, Vespidæ.

**17661-68**  
**THE EFFECTS OF GOSSYPOL ON CERTAIN ENZYMES IN CELLULAR FRACTIONS OF ANIMAL TISSUES.**

L A Meksongsee  
*Diss Abstr Sect B* 28(10):3945B  
Apr 1968 Z5055.U49D53

Assay, Baby pigs, Cells, Cottonseed, Enzymes, Feeding, Gossypol, Liver, Mitochondria, Phenols, Rabbits, Rats, Spectrophotometry, Toxins.

**17662-68**  
**EFFECTS OF AFLATOXIN B1 ON RAT LIVER POLYRIBOSOME PROFILE. (ABSTRACT).**

R S Pong G N Wogan  
*Fed Amer Soc Exp Biol Fed Proc* 27(2):552

Mar 1968 442.9 F31P  
Aflatoxin, Animal metabolism, Biochemistry, Liver, Proteins, Rats, Toxicology.

**17663-68**  
**STUDIES ON TOXICITY OF TANNIC ACID AND THE MECHANISM(S) FOR ITS DETOXICATION IN CHICKENS.**

D K Potter  
*Diss Abstr Sect B* 28(10):3946B  
Apr 1968 Z5055.U49D53

Animal physiology, Arginine, Biochemistry, Chickens, Choline, Chromatography, Diet, Eggs, Feed, Gallic acid, Metabolites, Pyrogallol, Research, Tannic acids, Toxicology, Urine.

**17664-68**  
**AFLATOXIN B1 AND IN VITRO RNA SYNTHESIS. (ABSTRACT).**

A K Roy  
*Fed Amer Soc Exp Biol Fed Proc* 27(2):552  
Mar 1968 442.9 F31P

Adenosine triphosphates, Aflatoxin, Animal metabolism, Chemurgy, Culture media, Deoxyribonucleic acid, Growth factors, Ribonucleic acid.

**17665-68**  
**EFFECTS OF MELITTIN (BEE VENOM) ON NATURAL AND ARTIFICIAL MEMBRANES. (ABSTRACT).**

G Sessa G Weissmann J H Freer R Hirschhorn  
*Fed Amer Soc Exp Biol Fed Proc* 27(2):248  
Mar 1968 442.9 F31P

Bee venom, Cells, Culture media, Liver, Rabbits, Research, Toxicology.

**17666-68**  
**A LABORATORY AND FIELD INVESTIGATION OF ADJUVANTS TO INCREASE THE RESIDUAL TOXICITY OF DICHLORVOS, MEVINPHOS AND MALATHION TO MEXICAN BEAN BEETLE AND SOUTHERN ARMYWORM LARVAE.**

Z Smilowitz  
*Diss Abstr Sect B* 28(10):4168B-4169B  
Apr 1968 Z5055.U49D53

Adjuvants, Biochemistry, Chemical control (insects), Dichlorvos, Epilachna varivestis, Experimental insects, Insecticide residues, Insecticides, Malathion, Mevinphos, Prodenia cridania, Toxicology.

**17667-68**  
**PROTECTIVE EFFECT OF CHLORPROMAZINE ON PARATHION AND PARAOXON TOXICITY IN MICE. (ABSTRACT).**

R A Vukovich A J Triolo J M Coon  
*Fed Amer Soc Exp Biol Fed Proc* 27(2):597  
Mar 1968 442.9 F31P

Biochemistry, Blood, Chlorpromazine, Cholinesterases, Mice, Microsomes, Mortality, Paraoxon, Parathion, Toxicology.

**17668-68**  
**IN VITRO TOXIN PRODUCTION BY THE FUNGUS BEAUVERIA BASSIANA AND BIOASSAY IN GREATER WAX MOTH LARVAE.**

E S West J D Briggs  
*J Econ Entomol* 61(3):684-687  
Jun 1968 421 J822

Beauveria bassiana, Biological assay, Culture media, Dosage, Feeding, Fungi, Galleria mellonella, Injections, Larvae, Paralysis, Toxins.

**17669-68**  
**INTERPRETATION OF NUCLEAR DIVISION FIGURES IN VEGETATIVE HYPHAE OF FUNGI.**

J R Aist C L Wilson  
*Phytopathology* 58(6):876-877 REF  
Jun 1968 464.8 P56

Cell nucleus, Ceratocystis fagacearum, Fungi, Fusarium oxysporum, Hyphae, Macrophomina phaseoli, Plant physiology, Vegetation.

**17670-68**  
**AMINO ACID REQUIREMENTS OF THE COTTON STAINER, DYSDERCUS FASCIATUS (PYRRHOCORIDAE, HEMIPTERA).**

M A Alikhan  
*Entomol Exp Appl* 11(1):43-50  
1968 421 EN895

Amino acids, Cotton, Culture media, Dysdercus fasciatus, Extracts, Glutamic acid, Hemiptera, Injections, Insect metabolism, Pyrrhocoridae, Radioactivity.

**17671-68**  
**SOME RELATIONSHIPS OF PHENOLIC ACIDS TO THE DEVELOPMENT OF RUST INFECTION IN FLAX COTYLEDONS.**

J R Allan  
*Diss Abstr Sect B* 28(10):4001B  
Apr 1968 Z5055.U49D53

Biochemistry, Chromatography, Flax, Fungi, Injections, Melampsora lini, Metabolites, Phenols, Plant morphology, Plant physiology, Radioactivity, Rust (flax), Seedlings.

**17672-68**  
**SOME FACTORS INFLUENCING CONIDIAL PRODUCTION OF GLOMERELLA CINGULATA PATHOGENIC TO CAMELLIAS. (ABSTRACT).**

S Brown L W Jr. Baxter  
*Phytopathology* 58(6):726  
Jun 1968 464.8 P56

Camellia, Culture media, Glomerella cingulata, Lighting, Plant diseases, Plant physiology, Reproduction, Spores.

**17673-68**  
**COMPARATIVE GROWTH STUDIES OF PYTHIUM IRREGULARE AND P. VEXANS. (ABSTRACT).**

H F Cantrell W M Dowler  
*Phytopathology* 58(6):726  
Jun 1968 464.8 P56

Biochemistry, Fungi, Plant physiology, Pythium irregulare, Pythium vexans, Temperature.

**17674-68**  
**X-RAY ANALYSIS OF HYPHAL AND SCLEROTIUM WALLS OF SCLEROTIUM ROLFII SACC.**

I Chet Y Henis  
*Can J Microbiol* 14(7):815-816  
Jul 1968 448.8 C162

Assay, Biochemistry, Cellulose, Chitin, Infrared spectra, Melanins, Pigments, Plants, Sclerotium rolfsii, X-rays.

**17675-68**  
**ADSORPTION OF HERBICIDES BY ACTIVATED CARBON AND OTHER ADSORBENTS. (0)**

D L Coffey  
*Diss Abstr Sect B* 28(11):4380B  
May 1968 Z5055.U49D53

Adsorption, Biochemistry, Biological assay, Carbon, Chemical control (weeds), Herbicides, Hydrogen-ion concentration, Plant translocation, Roots, Soil organic matter, Toxicology.

**17676-68**  
**INTRACELLULAR AND EXTRACELLULAR METABOLISM OF 3-INDOLEACETIC ACID IN THE ASEPTIC AND NONASEPTIC CULTURES OF PISUM SATIVUM ROOT TIPS. (FR)**

G F Collet  
*Can J Bot* 46(8):969-978 REF  
Aug 1968 470 C16C

Biochemistry, Cells, Chromatography, Indoleacetic acid, Metabolism, Peas, Plant physiology, Roots, English summary

**17677-68**  
**INHIBITORS FROM CAROB (CERATONIA SILIQUA L.) I. NATURE OF THE INTERACTION WITH GIBBERELIC ACID ON SHOOT GROWTH.**

M R Corcoran C A West  
*Plant Physiol* 43(6):859-864 REF  
Jun 1968 450 P692

Ceratonia siliqua, Gibberellic acid, Plant extracts, Plant growth inhibitors, Abstract

**17678-68**  
**EFFICACY OF SOME INSECTICIDES FOR TREATING CEREALS.**

J Coulon  
*Pyrethrum Post* 9(3):44-53  
Apr 1968 421 P99

Grain, Insecticides, Piperonyl butoxide, Pyrethrum, Sitophilus granarius.

**17679-68**  
**THE EFFECT OF VITAMINS AND LIGHT ON CULTURAL RESPONSES OF FUSICLADIUM EFFUSUM. (ABSTRACT).**

R G Davis C H Graves  
*Phytopathology* 58(6):727  
Jun 1968 464.8 P56

Agar, Biochemistry, Fusicladium effusum, Light, Plant physiology, Vitamins.



- 17680-68**  
OXIDATIVE ACTIVITY OF BOTRYTIS CINEREA EXTRACTS IN ALCOHOL. (ABSTRACT).  
D W De Jong A D King K Popper  
*Fed Amer Soc Exp Biol Fed Proc 27(2):808*  
Mar 1968 442.9 F31P  
Alcohol, Botrytis cinerea, Enzymes, Mitochondria, Oxidation-reduction potential, Plant physiology, Plant respiration, Serum albumin.
- 17681-68**  
TOXIC EFFECTS OF ALUMINUM ON VITIS VINIFERA, MERLOT VARIETY, CULTIVATED IN A CONTROL MEDIUM. (FR)  
J Delmas  
*Acad Sci Compt Rend Ser D Sci Nat 265(21):1619-1622*  
20 Nov 1967 505 P21  
Aluminum, Grapes, Nutrient solutions (plants), Plant physiology, Poisons, Toxicology. French summary
- 17682-68**  
UNIDENTIFIED NINHYDRIN POSITIVE SUBSTANCE FOUND IN THE CULTURE FILTRATE OF PLANT PATHOGENIC FUNGI WHEN CULTURED ON THE MEDIUM CONTAINING AUTHENTIC AMINO ACID. I.  
H Egawa M Masuko A Ueyama  
*Phytopathol Soc Jap Ann 34(1):56-60*  
Jan 1968 464.9 P562  
Amino acids, Biochemistry, Chromatography, Culture media, Filters, Fungi, Injections, Ninhydrin reaction, Plant diseases, Plant metabolism. Abstract in Japanese. A part of this paper was read at the annual Meeting of the Phytopathological Society of Japan, Tokyo, on March 1967.  
Abstract: The chemical property was different from that of alanine, glycine, threonine, glutamic acid, glutamine, glucosamine, galactosamine, and anthranilic acid in thin layer chromatographic behaviors.
- 17683-68**  
PHENYLACETIC ACID, A METABOLITE OF XANTHOMONAS ORYZAE (UYEDA ET ISHIYAMA) DOWSON IN CULTURE AFFECTING UPON THE DEPRESSIVE GROWTH OF YOUNG ROOTS OF RICE SEEDLINGS. (JA)  
H Egawa K Yoshii A Ueyama  
*Phytopathol Soc Jap Ann 34(1):46-50*  
Jan 1968 464.9 P562  
Biochemistry, Culture media, Injections, Metabolites, Phenylacetic acid, Plant growth inhibitors, Rice, Roots, Seedlings, Temperature, Xanthomonas oryzae. Abstract in English.
- 17684-68**  
CHANGES IN PATHOGENICITY AMONG THREE ISOLATES OF GEOTRICHUM CANDIDUM AFTER SERIAL PASSAGE ON THE CHORIOALLANTOIC MEMBRANE OF EMBRYONATED CHICKEN EGGS. (ABSTRACT).  
Z M El-Tobshy J B Sinclair  
*Phytopathology 58(6):727*  
Jun 1968 464.8 P56  
Chickens, Eggs, Embryology, Geotrichum candidum, Parasitism, Plant physiology.
- 17685-68**  
HISTOPATHOLOGY OF GEOTRICHUM CANDIDUM IN THE CHORIOALLANTOIC MEMBRANE OF EMBRYONATED CHICKEN EGGS. (ABSTRACT).  
Z M El-Tobshy J B Sinclair  
*Phytopathology 58(6):727*  
Jun 1968 464.8 P56  
Chickens, Eggs, Embryology, Geotrichum candidum, Histology, Parasitism, Plant physiology.
- 17686-68**  
CALCIUM INHIBITION OF POTASSIUM ABSORPTION IN CORN ROOTS.  
O E Elzam T K Hodges  
*Plant Physiol 42(11):1483-1488 REF*  
Nov 1967 450 P692  
Absorption, Barley, Calcium chloride, Calcium sulfate, Corn, Kinetics, Potassium.
- 17687-68**  
SYNTHESIS AND PHYSIOLOGICAL ACTIVITY OF SEVERAL 1-SUBSTITUTED INDOLE-3-ACETIC ACIDS AND ESTERS.  
R L Franklin  
*Diss Abstr Sect B 28(10):401B*  
Apr 1968 Z5055.U49D53  
Biochemistry, Biological assay, Indoleacetic acid, Infrared spectra, Nitrogen, Oats, Plant hormones, Plant physiology, Plant regulators, Ultraviolet rays.
- 17688-68**  
BIOCHEMICAL RELATIONSHIPS IN CHLOROTIC LEAVES OF MACADAMIA (MACADAMIA TETRAPHYLLA L. JOHNSON) UNDER CONDITIONS OF IRON AND MANGANESE DEFICIENCY.  
I M Gillilan  
*Diss Abstr Sect B 28(10):3939B*  
Apr 1968 Z5055.U49D53  
Amino acids, Arginine, Biochemistry, Chlorophylls, Citric acid, Iron, Leaves, Lysine, Macadamia tetraphylla, Manganese, Plant nutritional deficiencies, Proteins.
- 17689-68**  
THE HYPERSENSITIVE REACTION IN TOBACCO: A REFLECTION OF CHANGES IN HOST CELL PERMEABILITY.  
R N Goodman  
*Phytopathology 58(6):872-873*  
Jun 1968 464.8 P56  
Bacterial diseases (plants), Cells, Fungus diseases (plants), Hypersensitivity, Permeability, Plant physiology, Tobacco, Virus diseases (plants).
- 17690-68**  
RELATION OF STEROLS TO THE DIFFERENTIAL SENSITIVITY OF SPORES AND MYCELIA OF PHYTOPHTHORA TO POLYENE ANTIBIOTICS.  
G O Guardia  
*Diss Abstr Sect B 28(10):3962B*  
Apr 1968 Z5055.U49D53  
Agar, Antibiotics, Environment, Fungicides, Phytophthora, Phytophthora palmivora, Phytophthora parasitica, Pimaricin, Polyenes, Propagules, Pythium, Reproduction, Seed germination, Soils, Sterols.
- 17691-68**  
A POSSIBLE RESERVOIR OF TYROSINASE SUBSTRATES IN DROSOPHILA MELANOGASTER.  
A S Henderson  
*Diss Abstr Sect B 28(9):3579B*  
Mar 1968 Z5055.U49D53  
Amylases, Chromosomes, Drosophila melanogaster, Insect genetics, Insect metabolism, Lipases, Nucleases, Phenolases, Proteinases, Ribonucleic acid, Tyrosine.
- 17692-68**  
RESPONSE OF ECHINOCHLOA CRUSGALLI (L.) BEAUV. AT VARIOUS STAGES OF DEVELOPMENT TO 2-CHLORO-4-ETHYLAMINO-6-ISOPROPYLAMINO-S-TRIAZINE.  
E R Hill  
*Diss Abstr Sect B 28(10):3971B*  
Apr 1968 Z5055.U49D53  
Atrazine, Biochemistry, Chloroplasts, Chromatography, Echinochloa crusgalli frumentacea, Electron microscopy, Foliar application, Herbicides, Humidity, Plant morphology, Roots, Temperature.
- 17693-68**  
THE EFFECT OF SODIUM-CARBOXYMETHYL-CELLULOSE ON THE SEDIMENTATION AND VIABILITY OF BRUCELLA ORGANISMS IN SUSPENSION.  
F D Horwell  
*S Afr Vet Med Ass J 38(4):431-434*  
Dec 1967 41.8 S08  
Bacteria, Biochemistry, Brucella, Cells, Centrifugation, Culture media, Freeze drying, Hydrogen-ion concentration, Sedimentation, Sodium carboxymethyl cellulose.
- 17694-68**  
ON THE MULTIPLICATION OF DUNALIELLA BIOCULATA IN THE PRESENCE OF THE GASEOUS PHASE OF CIGARETTE SMOKE AND ON OBTAINING MUTATIONS IN THE PRESENCE OF ACROLEIN. (FR)  
C Izard  
*Acad Sci Compt Rend Ser D Sci Nat 265(23):1799-1802*  
06 Dec 1967 505 P21  
Acrolein, Dunaliella bioculata, Gases, Mutagens, Plant growth inhibitors, Plant mutation, Plant physiology, Smoke.
- 17695-68**  
THE EFFECT OF ORGANIC SUBSTRATES ON GERMINATION OF THE CONIDIA OF HELMINTHOSPORIUM SPP.8(ABSTRACT).  
G C Kingsland  
*Phytopathology 58(6):729*  
Jun 1968 464.8 P56  
Fungi, Helminthosporium, Organic compounds, Plant physiology, Seed germination, Substrates.
- 17696-68**  
THE ISOLATION AND PARTIAL CHARACTERIZATION OF THE GROWTH FACTOR IN THE GINSENG ROOT.  
F Lim  
*Diss Abstr Sect B 28(11):4415B*  
May 1968 Z5055.U49D53  
Ammonium compounds, Biochemistry, Choline, Esters, Plant physiology, Roots, Sodium tetraphenylboron, Vitamins.
- 17697-68**  
ASPERGILLUS ORYZAE AMYLASE ACTIVITY AND ITS CARBOHYDRATE CONTENT. (ABSTRACT).  
R L McGeachin T G Willis  
*Fed Amer Soc Exp Biol Fed Proc 27(2):810*  
Mar 1968 442.9 F31P  
Amylases, Antigens, Aspergillus oryzae, Carbohydrates, Mannose, Plant physiology, Rabbits.
- 17698-68**  
STUDIES ON DOWNY MILDEW OF HOP PLANTS. VII. EFFECT OF AUTUMN FOLIAR SPRAY OF FUNGICIDES ON THE CONTROL OF DOWNY MILDEW OF HOPS.  
Y Mori  
*Phytopathol Soc Jap Ann 34(2):92-97 REF*  
Mar 1968 464.9 P562  
Biochemistry, Chemical control (plant diseases), Downy mildew (hops), Foliar application, Fungicides, Roots, Spraying. Abstract in Japanese
- 17699-68**  
FAR-RED SENSITIVE DARK PROCESSES ESSENTIAL FOR LIGHT- AND GIBBERELLIN-INDUCED GERMINATION OF LETTUCE SEED.  
M Negbi M Black J D Bewley  
*Plant Physiol 43(1):35-40 REF*  
Jan 1968 450 P692  
Chromoproteins, Gibberellic acid, Infrared rays, Kinetics, Lettuce, Pigments (plant), Seed germination, Thiourea.
- 17700-68**  
EFFECT OF PHENOLS AND CYTOKININS ON POLYGALACTURONASE PRODUCTION BY VERTICILLIUM ALBO-ATRUM IN CULTURE.  
S S Patil A E Dimond  
*Phytopathology 58(6):868-869*  
Jun 1968 464.8 P56  
Biochemistry, Culture media, Cytokinins, Enzymes, Fungus diseases (plants), Pectinase, Phenols, Verticillium albo-atrum.
- 17701-68**  
EFFECTS OF GIBBERELIC ACID ON METABOLISM OF BARLEY SEEDS. (ABSTRACT).  
C J Pollard  
*Fed Amer Soc Exp Biol Fed Proc 27(2):812*  
Mar 1968 442.9 F31P  
Amylases, Antimycin a, Barley, Gibberellic acid, Peroxidases, Plant metabolism, Plant respiration, Puromycin, Seeds.

17702-68

EVIDENCE FOR INDOLYL-3-ACETALDEHYDE IN TRYPTOPHANE METABOLISM OF RHIZOBIUM. (FR)

J Rigaud

*Acad Sci Compt Rend Ser D Sci Nat* 265(21):1654-1656 REF

20 Nov 1967 505 P21

Indole-3-acetaldehyde, Plant hormones, Plant metabolism, Rhizobium, Tryptophan. French summary

17703-68

EFFECTS OF TRIFLURALIN ON NUCLEIC ACID METABOLISM AND OTHER PHYSIOLOGICAL PROCESSES.

D O Schultz

*Diss Abstr Sect B* 28(10):4024B-4025B

Apr 1968 Z5055.U49D53

Autoradiography, Biochemistry, Corn, Cucumbers, Foliar application, Herbicides, Nuclieic acids, Plant metabolism, Plant physiology, Seed germination, Sorghum, Soybeans, Trifluralin.

17704-68

EFFECTS OF METABOLIC POISONS ON RICE: THE COMPARATIVE SENSITIVITY OF AEROBIC AND ANAEROBIC MODES OF GERMINATION.

S M Siegel M Lederman O Daly K Roberts

*Plant Physiol* 42(11):1489-1492 REF

Nov 1967 450 P692

Aerobic bacteria, Anaerobic bacteria, Mercapto group, Mode, Phcnylmercuric acetate, Poisons, Rice, Seed germination, Sodium fluoroacetate.

17705-68

THE DISTRIBUTION OF HOUSEFLIES IN A SIMULATED DINING ROOM AFTER KNOCKDOWN BY AEROSOLS CONTAINING PYRETHRINS AND AEROSOLS CONTAINING D. D. V. P.

N K Sylvester

*Pyrethrum Post* 9(3):39-43

Apr 1968 421 P99

Aerosols, Dichlorvos, Insect dissemination, Insecticides, Musca domestica, Pyrethrum.

17706-68

EFFECTS OF HYDROGEN FLUORIDE ACCUMULATION ON PLANT CELL MICROSTRUCTURE AND ULTRASTRUCTURE.

D Timmermann

*Diss Abstr Sect B* 28(10):4026B-4027B

Apr 1968 Z5055.U49D53

Biochemistry, Cells, Chlorophylls, Fumigation, Microscopy, Plant anatomy, Plant injuries, Upland cotton.

17707-68

PHYSIOLOGICAL ABNORMALITIES IN GROWTH, HORMONE BEHAVIOR, AND CHEMICAL TRANSPORT IN ASTER YELLOWS INFECTED PLANTS.

W P P Ting

*Diss Abstr Sect B* 28(10):3963B-3964B

Apr 1968 Z5055.U49D53

Amino acids, Aster yellows (tobacco), Aztec tobacco, Carbon dioxide, Chemicals, Chlorophylls, Plant abnormalities, Plant hormones, Plant physiology, Plant regulators, Plant translocation, Roots, Virus diseases (plants).

17708-68

THE OZONE RESISTANCE OF LEAVES AS RELATED TO THEIR SULFHYDRYL AND ADENOSINE TRIPHOSPHATE CONTENT.

H Tomlinson S Rich

*Phytopathology* 58(6):808-810

Jun 1968 464.8 P56

Adenosine triphosphates, Beans, Biological assay, Leaves, Mercapto group, Ozone, Spinach, Tobacco.

17709-68

GROWTH RESPONSES OF PINTO BEAN AND ALFALFA TO SUBLETHAL FLUORIDE CONCENTRATIONS.

M Treshow F M Harner

*Can J Bot* 46(10):1207-1210 REF

Oct 1968 470 C16C

Alfalfa, Fluorides, Kidney beans, Plant biochemistry, Plant physiology.

17710-68

THE INCORPORATION OF TRITIATED THYMIDINE IN THE CYTOPLASM BEFORE THE INCORPORATION OF THE CELL NUCLEUS DURING THE GERMINATION IN ZEA MAYS. (FR)

C Van De Walle G Bcrmier

*Acad Sci Compt Rend Ser D Sci Nat* 265(21):1599-1601 REF

20 Nov 1967 505 P21

Autoradiography, Cell nucleus, Corn, Deoxyribonucleic acid, Plant cytology, Plant embryos, Plant genetics, Thymidine.

17711-68

THE EFFECT OF CYCLOHEXIMIDE ON THE METABOLISM OF NEUROSPORA CRASS 10780.

J P Viau

*Diss Abstr Sect B* 28(10):3999B

Apr 1968 Z5055.U49D53

Antibiotics, Biochemistry, Chromatography, Cycloheximide, Metabolism, Mcthionine, Neurospora crassa, Proteins, Ribonucleic acid, Uracil.

17712-68

DEPENDENCE ON FATTY ACID CHAIN LENGTH OF OXYGEN UPTAKE AND DECARBOXYLLATION BY CRONARTIUM FUSIFORME AECIOSPORES.

C H Walkinshaw

*Phytopathology* 58(6):855-859 REF

Jun 1968 464.8 P56

Biochemistry, Cronartium fusiforme, Fatty acids, Fungicides, Oxygen, Spores.

17713-68

HYDROCARBON AND FATTY ACID DISTRIBUTION IN THE SPORE COATS OF PATHOGENIC BASIDIOMYCETES. (ABSTRACT).

J D Weete D J Weber

*Phytopathology* 58(6):731-732

Jun 1968 464.8 P56

Basidiomycetes, Fatty acids, Fungi, Hydrocarbons, Plant physiology, Plant translocation, Puccinia graminis, Spores, Urocystis agropyri, Ustilago avenae.

17714-68

EFFECTS OF NITROGEN AND POTASSIUM ON THE IRON METABOLISM OF GREENHOUSE-GROWN APPLE TREES.

H K Wutscher

*Diss Abstr Sect B* 28(9):3554B

Mar 1968 Z5055.U49D53

Applcs, Chemurgy, Greenhouses, Iron, Nitrogen, Plant metabolism, Potassium.

## CHEMISTRY

17715-68

STUDIES ON THE TOTAL SYNTHESIS OF THE GIBBERELLINS. I. TETRAHYDROFLOURENE APPROACH. II. A POSSIBLE ROUTE FO GIBBERELLIN A.

W E Barnett

*Diss Abstr Sect B* 28(10):4029B

Apr 1968 Z5055.U49D53

Acids, Borane, Chemical reactions, Chemicals, Esters, Gibberellin a1, Gibberellins, Glycols, Stereochemistry.

17716-68

BIOCHEMICAL TRANSFORMATIONS OF ANILIDE HERBICIDES IN SOIL.

R Bartha

*J Agr Food Chem* 16(4):602-604 REF

Jul 1968 381 J8223

Anilides, Azobenzene, Biochemistry, Chemicals, Chromatography, Herbicides, Molecules, Organic compounds, Respirometers, Soil testing.

17717-68

THE DECOMPOSITION OF UREA HERBICIDES IN SOIL. (GER)

H Borner

*Z Pflanzenkrankh (pflanzenpathol) Pflanzenschutz* 74(3):135-143

Mar 1967 464.8 Z3

Aspergillus nigr, Chemical control (weeds), Herbicides, Linuron, Monolinuron, Soil chemistry, Urea. English summary

17718-68

SOME STOCHASTIC MODELS FOR MICROORGANISM DEATH KINETICS.

F P Geycr

*Diss Abstr Sect B* 28(10):4105B

Apr 1968 Z5055.U49D53

Frequency distribution, Kinetics, Markov chains, Mathematical analysis, Microorganisms, Mortality, Population statistics.

17719-68

DETERMINATION OF SOLUABLE COPPER AND COPPER OXYCHLORIDE BY THE METHOD OF BATHOCUPREINA. (SP)

F Sanchez Rasero J Henriot

*Rev Iberica Parasitol* 27(3-4):189-202

Jul 1967 436.8 R32

Copper, Copper oxychloride, Fungicides. French, Spanish and English summaries

Abstract

17720-68

PYRETHUM AS AN INSECT REPELLENT. II. A LABORATORY TECHNIQUE FOR ITS EVALUATION AS A MOSQUITO REPELLENT, AND THE INFLUENCE OF FORMULATION ON PERSISTENCE.

J S Weaving N K Sylvester

*Pyrethrum Post* 9(1):31-35 REF

Apr 1967 421 P99

Aedes aegypti, Alcohols, Insect pests, Insect repellents, Laboratories, Oils, Pyrethrum, Water.

## ENGINEERING

17721-68

THE I.I.S.R. BULLOCK-DRAWN CHEMICAL APPLICATOR.

R G Menon N S L Srivastava

*Indian Farming* 18(1):27,29

Apr 1968 22 IN283

Equipment, Fertilizer spradders, Pesticide application.

## INDUSTRY

### ECONOMICS

17722-68

1968-'69 BUYER'S GUIDE FOR THE AGRICULTURAL CHEMICALS TRADE.

Anonymous

*Agr Chem* 23(9):77-108

Scp 1968 381 AG8

Agricultural chemistry, Agricultural economics, Chemicals, Indexing.

17723-68

MALARIA CONTROL ON IMPOUNDED WATER. RA644.0M20U55.

E L Bishop M D Hollis C I Mansur

422 P. WASHINGTON, D. C., U. S. GOVERNMENT PRINTING OFFICE 20402



Agricultural outlook, Culicidae, Insect control, Larvicides, Malaria, Malaria control, Mollusks, Spraying, Wildlife management.

17724-68

**COORDINATION AND RESPONSIBILITY IN WILDLIFE MANAGEMENT AND MOSQUITO CONTROL.**

J E Nagel

*Utah Mosquito Abatement Ass Proc 18-19 ANNU. MEETING:34-35*

1966 420 UT1

Agricultural outlook, Culicidae, Insect control, Research, Wildlife management.

**EDUCATION**

17725-68

**PHYTOSANITARY MEASURES IN A DEVELOPING EUROPE.**

I Granhall

*Neth J Plant Pathol 73(SUP.1):13-19*

1967 464.8 T44

Agricultural economics, Plant disease control, Plant protection, Sanitation control (pests), World agricultural situation.

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Agricultural regulation, Health surveys, Hog cholera, Livestock diseases, Swine.

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*Fed Regist 33(150,PT.1):11024*

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D R Shepherd

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*Fed Regist 33(159):11585*

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Universite Laurentienne, Sudbury, Ontario, Canada; Dept. of Biologie  
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Wisconsin University, Madison; Dept. of Veterinary Science  
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Dept. of Forestry and Rural Development, Ontario, Canada; Insect Pathology Research Institute  
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Pakistan Council of Scientific and Industrial Research, Ka; Central Laboratories; Pesticide Research Section  
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Ireland Veterinary College, Dublin; Dublin University School of Veterinary Medicine  
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Allerton Veterinary Investigational and Diagnostic Centre.; Pietermaritzburg  
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California University, Davis; School of Veterinary Medicine; Dept. of Epidemiology and Preventive Medicine  
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Institut fur Biologische Schadlingskampfung in Darmstadt; Biologische Bundesanstalt fur Land- und Forstwirtschaft  
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Deutschen Akademie der Landwirtschaftswissenschaften, Berli; Institut fur Phytopathologie Aschersleben  
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Mississippi State University; Poultry Science Dept.  
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Yale University, Connecticut; Dept. of Biology  
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Bishop Museum, Honolulu, Hawaii  
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California University; Dept. of Entomology  
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Institute for Plant Protection, Beograd  
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Delhi University, India; Dept. of Zoology  
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North Carolina State University; Dept. of Entomology  
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Glasgow University; Dept. of Veterinary Physiology  
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Cornell University, Farmingdale, New York; Nematology Laboratory  
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U. S. Dept. of Agriculture, Weslaco, Texas; Agricultural Research Service; Entomology Research Division

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**Harvey, W R**

Copenhagen University, Denmark; Institution for Biological Chemistry

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**Haskell, J A**

State University College, Plattsburgh, New York; Division of Science and Mathematics

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**Hausechild, A H W**

Dept. of National Health and Welfare; Research Laboratories of the Food and Drug Directorate

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**Hayashi, S**

British Columbia University, Vancouver; Dept. of Zoology

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Washington State University, Pullman

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Animal Industry and Agriculture Branch, Darwin, N.T.

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**Hein, A**

Institut für Pflanzenschutz der Universität Hohenheim

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**Helle, W**

Amsterdam University, Netherlands; Laboratory of Applied Entomology

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Iowa State University, Ames; Dept. of Zoology AND Entomology

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New Zealand Dept. of Agriculture, Wellington

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Idaho University, Moscow; Dept. of Plant Sciences

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North Carolina University, Chapel Hill

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**Henderson, G L**

California University, Davis; Agricultural Toxicology and Residue Research Laboratory

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Dept. of Agriculture, Wollongbar, N.s.w.; Commonwealth Scientific and Industrial Research; Organization, Division of Animal Genetics.

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Yale University; School of Forestry

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North Carolina State University, Raleigh

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**Hill, E R**

Massachusetts university, Amherst

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**Hino, T**

Chugoku Agriculture Experiment Station, Fukuyama, Japan

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**Hirai, T**

Chinju Agricultural College, Chinju, Korea

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**Hodgson, C J**

Dept. of Research and Specialist Services, Rhodisia

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British Columbia University, Canada; Dept. of Zoology

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U. S. Dept. of Agriculture, Delaware, Ohio; Forest Service; Northeastern Forest Experiment Station

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Veterinary Research Institute, Onderstepoort

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Pennsylvania State University, University Park; Dept. of Entomology and Biology

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New Mexico State University, Plains Branch Station, Clovis

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University of Illinois; Dept. of Entomology

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University of Illinois; Dept. of Entomology

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Illinois University; Dept. of Entomology

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Michigan State University,

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California University, Berkeley; Division of Biological Control

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National Veterinary Institute, Stockholm, Sweden; Bovine Leukosis Research Group; Dept. of Pathology

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Aston University, Gosta Green, Birmingham; Dept. of Biological Sciences

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U. S. Dept. of Agriculture, Stillwater, Okla.; Agricultural Research Service; Crops Research Division

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California University, Davis

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**Hurpin, B**

Institut National de la Recherche Agronomique, France; Station de Recherches de Lutte Biologique et de; Biocoenotique

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Glasshouse Crops Research Institute, Sussex, England

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Purdue University, Lafayette, Indiana; Dept. of Botany and Plant Pathology

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Pittsburgh University

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National Institute of Agricultural Sciences, Nishigahara, Tokyo, Japan

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Gifu University, Kakamigahara, Japan; Faculty of Agriculture

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Osaka Prefecture University, Sakai-shi, Osaka; College of Agriculture; School of Veterinary Science

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Shikoku Agricultural Research, Japan

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Kyoto University, Kyoto, Japan; College of Agriculture

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**Ishikawa, S**

Sericultural Experiment Station, Tokyo, Japan

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**Itoya, S**

Kagoshima Agricultural Experiment Station

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U. S. Dept. of Agriculture, Fort Valley, Georgia; Agricultural Research Service; Entomology Research Division

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Oak Ridge National Laboratory, Tennessee; Biology Division

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**Jamalain, E A**

Zentrale für Landwirtschaftliche Forschung, Tikkurila; Abteilung für Pflanzenkrankheiten

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**Jegier, Z**

Montreal University, Montreal; School of Hygiene

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University College, Cardiff; Dept. of Zoology

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**Jerath, M L**

Moor Plantation, Ibadan, Nigeria; Federal Agricultural Research

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**Jerath, M L**

Moor Plantation, Ibadan; Dept. of Agriculture

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Purdue University, Lafayette, Indiana

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**Jolly, L**

Strasbourg University, France; Faculte des Sciences; Institut de Zoologie et de Biologie generale

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**Judson, C L**

California University, Davis; Dept. of Entomology

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**Kable, P F**

Yanco Agricultural College and Research Station, Yanco

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**Kamran, M A**

The International Rice Research Institute, Los Banos, Laguna

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**Kaston, B J**

San Diego State College, San Diego

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London University; Royal Veterinary College; Dept. of Pathology

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**Kaszab, Z**

Hungarian Natural History Museum, Budapest; Zoological Dept.

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**Kayoji, T**

Tokaikinki Agricultural Experiment Station, Japan

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**Kelly, W A**

Purdue University, Lafayette, Indiana; School of Veterinary Science and Medicine

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**Khan, R A**

Toronto University, Toronto; School of Hygiene; Dept. of Parasitology

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**Kibata, H**

Kamigawa Branch Farm, Hokuno, Japan

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**Kiho, Y**

Institute for Plant Virus Research, Chiba, Japan

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**Kingsland, G C**

Clemson University, Clemson, South Carolina

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**Kishi, K**

Horticultural Research Station, Hiratsuka, Japan

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**Kiyota, H**

Yokohama City University, Yokohama, Japan; School of Medicine; Dept. of Pediatrics

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**Knott, D R**

Saskatchewan University, Saskatoon; Crop Science Dept.

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Harvard University, Cambridge, Massachusetts; Museum of Comparative Zoology 17038
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Ecole Nationale Supérieure Agronomique, Montpellier; Centre de Recherches Agronomiques du Midi; Laboratoire de Recherches de la Chaire de Pathologie 17536
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Kansas Agricultural Experiment Station, Manhattan, Kansas; Dept. of Zoology 17543
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University of Missouri, Columbia; Dept. of Veterinary Microbiology 17544
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Kitasato Institute, Kashiwa City, Chiba Prefecture, Japan; Research Center for Veterinary Science 17551
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University of Rochester, New York; Dept. of Biology 17044
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Utah State Dept. of Fish and Game, Salt Lake City, Utah 17724
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National Institute of Animal Health, Tokyo, Japan; Equine Infectious Anemia Research Division 17553
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University of Wisconsin; Dept. of Biochemistry and Poultry Science 17556
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Japan Racing Association, Tokyo; Equine Health Laboratory 17477
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Tokyo University, Tokyo; Faculty of Agriculture; Dept. of Veterinary Internal Medicine and Parasitology 17608
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Tokyo University, Tokyo; Faculty of Agriculture; Dept. of Veterinary Internal Medicine and Parasitology 17609
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Texas University, Galveston, Texas; Dept. of Microbiology; Medical Branch 17610
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Denver General Hospital, Colorado; Dept. of Medicine 17558
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Volcani Institute of Agricultural Research, Bet Dagan; Israel; Division of Nematology 17443
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Virginia Polytechnic Institute, Blacksburg, Virginia 17444
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California University, Davis; School of Veterinary Medicine; Dept of Veterinary Microbiology 17559
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Cocoa Research Institute, Tafo, Ghana 17324
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California University, Davis; College of Agriculture; Agricultural Toxicology and Residue Research 17181
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Canada Dept. of Agriculture, Ottawa, Ontario; Cell Biology Research Institute 17397
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Imperial College Field Station, Ascot, Great Britain; Zoology Dept. 17445
- Papavizas, G C**  
U. S. Dept. of Agriculture, Beltsville, Maryland; Agricultural Research Service; Crops Research Division 17326
- Papp, J**  
Bakony Museum, Veszprem, Hungary 17047
- Patil, S S**  
Connecticut Agricultural Experiment Station, New Haven; Dept. of Plant Pathology 17700
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Whitmoyer Laboratories Incorporated, Myerstown, Pa. 17478
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Kentucky University, Lexington; Dept. of Agronomy 17268
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Cornell University, Ithaca, New York 17049
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Hungarian Academy of Sciences, Budapest; Veterinary Research Institute; Dept. of Parasitology 17611
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Laboratory of Virology, Wageningen, The Netherlands 17182
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British Columbia University, Vancouver, Canada; Dept. of Zoology 17052
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Mississippi State University, State College; Dept. of Entomology 17399
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Virginia Polytechnic Institute, Blacksburg, 17565
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Dept. of Forestry and Rural Development, Alberta, Canada; Forest Research Laboratory 17269
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Rutgers University, New Brunswick, New Jersey; Dept. of Plant Biology 17328
- Price, R D**  
St. Paul University, Minnesota; Dept. of Entomology, Fisheries, and Wildlife 17054
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California University, Berkeley 17185
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University of Washington, Seattle; Dept. of Pathology 17566
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Academy of Sciences of the USSR, Moscow; K. A. Timiryazev Institute of Plant Physiology 17270
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Instituto Brasileiro do Cafe, Brazil 17400
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Johns Hopkins University, Baltimore Maryland 17567
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Adelaide Childrens Hospital; Dept. of Biochemistry 17568
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Canada Dept. of Agriculture, Kentville; Research Branch 17648
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Ecole Nationale Supérieure Agronomique, Rennes, France; Chaire de Zoologie 17186
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Indian Agricultural Research Institute; Division of Entomology 17187
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South Dakota State University, Brookings; Dept. of Plant Pathology 17329
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Indian Agricultural Research Institute, New Delhi; Division of Entomology 17188
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Hebrew University, Rehovot, Israel; Faculty of Agriculture 17272
- Rasmuson, M**  
University of Uppsala, Uppsala; Dept. of Genetics 17236
- Reher, H**  
Institut für Pflanzenkrankheiten und Pflanzenschutz der; Technischen Hochschule Hannover, Germany. 17330
- Reher, H**  
Institut für Pflanzenkrankheiten und Pflanzenschutz der; Technischen Hochschule Hannover, Germany 17331
- Reichel, W L**  
U. S. Dept. of Interior; Bureau of Sport Fisheries and Wildlife; Patuxent Wildlife Research Center, Laurel, Maryland 17649
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