

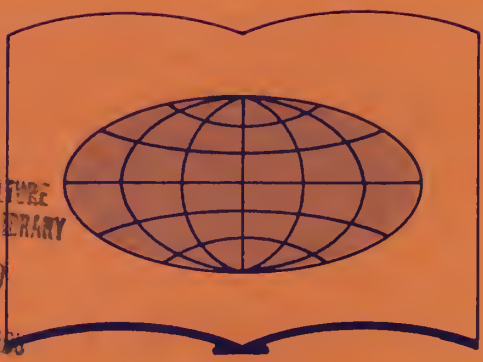
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Volume 5
September 19, 1969

Number 19



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PESTICIDES DOCUMENTATION BULLETIN

Volume 5
September 19, 1969
Number 19

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, Crop Research Division, Agriculture Research Service. Each test record contains the following items of information:

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- Company furnishing the compound
- Author or Investigator
- Test Sponsor
- Date
- Location
- Mode of Application
- Rates of Application
- Soil Types
- Carriers
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ACKNOWLEDGMENT

The Pesticides Information Center, National Agricultural Library, gratefully acknowledges the cooperation and assistance of the Department of Defense; Health, Education, and Welfare; and Interior; the Federal Committee on Pest Control, and state and industrial organizations in the development of the Center and preparation of this Bulletin. Special thanks are expressed to the Federal Committee on Pest Control for its suggestions and support. We hope the Bulletin will serve as an example of the effectiveness of interdepartmental cooperation and the speed with which effective services can be developed through a coordinated and cooperative interdepartmental effort.

Use of funds for printing this publication approved by the Director of the Bureau of the Budget (May 23, 1968).

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This publication reports research involving pesticides. It does not contain recommendations for their use, nor does it imply that the uses discussed here have been registered. All uses of pesticides must be registered by appropriate State and/or Federal agencies before they can be recommended.

CAUTION: Pesticides can be injurious to humans, domestic animals, desirable plants, and fish or other wildlife—if they are not handled or applied properly. Use all pesticides selectively and carefully. Follow recommended practices for the disposal of surplus pesticides and pesticide containers.

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Coccoidea, Insect taxonomy.

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Hyalomma, Insect taxonomy, Livestock.

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A LIST OF THE ARMURED SCALE INSECTS (DIASPIDIDAE) AND THEIR HOSTS IN TASMANIA.

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Diaspididae, Insect taxonomy, Plants, Zoogeography.

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Abgrallaspis, Diaspididae, Insect names, Insect taxonomy.
- 11159-69**
MORPHOLOGY AND RELATIONSHIPS OF THE PENTATOMOIDEA (HETEROPTERA). IV. ONCOMERINAE (TESSARATOMIDAE).
R Kumar
Australian J Zool 17(3):553-606 REF
Jul 1969 410 AU73
Heteroptera, Insect morphology, Insect taxonomy, Reproductive organs.
- 11160-69**
SECOND SUPPLEMENT TO THE CONTRIBUTION TO THE LEPIDOPTERAN FAUNA OF THE MIDDLE RHINE AND ADJACENT TERRITORY. (GE)
R Kunnert
Entomol Z 79(12):136-137
16 Jun 1969 421 EN85
Insects, Surveys, Zoogeography.
- 11161-69**
THREE SPECIES OF EYLAIS (ACARI: EYLAIDAE) PARASITIC ON AQUATIC HEMIPTERA.
C A Lanciani
Amer Microscop Soc Trans 88(3):356-365
Jul 1969 440.9 AM33
Aquatic insects, Insect taxonomy, Mites, Parasitic insects.
- 11162-69**
THE GENUS ANISOPS IN AUSTRALIA (HEMIPTERA--HETEROPTERA NOTONECTIDAE).
I Lansbury
Ann Mag Natur Hist 3(3)JUL-SEP:433-458
Sep 1969 410 AN77
Insect taxonomy, Notonectidae.
- 11163-69**
BLOOD-SUCKING STOMOXYINAE AND MUSCINAE OF THE DEMOCRATIC REPUBLIC OF THE CONGO (DIPTERA, MUSCIDAE). (FR)
M Leclercq
Gembloux Inst Agron Bull Etat Ser Extraordinaire 3(4):697-702
1968 105.1 G285
Insect taxonomy, Muscidae.
- 11164-69**
TABANIDAE (DIPTERA) OF MOROCCO. IV. IDENTIFICATION OF PANGONIUS HASSANI N. SP.. (FR)
M Leclercq
Gembloux Inst Agron Bull Etat Ser Extraordinaire 3(4):703-711 REF
1968 105.1 G285
Insect taxonomy, Tabanidae.
- 11165-69**
MORPHOLOGICAL AND PHYLOGENIC STUDIES ON THE LARVAE AND MALE GENITALIA OF THE EAST ASIATIC TINGIDAE (HETEROPTERA).
C E Lee
Kyushu Univ Fac Agr J 15(2):137-256 REF
Jun 1969 107.6 K995
Insect morphology, Insect taxonomy, Larvae, Reproductive organs, Tingidae.
- 11166-69**
ON PROBLEMS WITH WEATHER CONDITIONS IN LIGHT TRAP USE. (DU)
W J B Leffef
Entomol Ber 29(3):43-44
01 Mar 1969 420 N38B
Insect collecting equipment, Lepidoptera, Light traps, Weather. English abstract.
- 11167-69**
NEOTYPES FOR PHALAEANA ORBONA HUFNAGEL (LEP.). (GE)
B J Lempke
Entomol Ber 29(2):21
01 Feb 1969 420 N38B
Insect taxonomy, Noctuidae.
- 11168-69**
MODERN SYSTEMATICS FOR THE NOTODONTIDAE (LEP.). (DU)
B J Lempke
Entomol Ber 29(3):49-52
01 Mar 1969 420 N38B
Insect taxonomy, Notodontidae. English abstract.
- 11169-69**
MILLIPEDES FROM JAMAICAN CAVES.
H F Loomis
Fla Entomol 52(3):141-145
Sep 1969 420 F662
Cave fauna, Diplopoda, Insect taxonomy, Surveys.
- 11170-69**
A RE-DESCRIPTION OF CRYPTOGNATHUS CUCURBITA BERLESE 1916 (ACARI, PROSTIGMATA, CRYPTOGNATHIDAE).
M Luxton D C Lee
Acarologia 11(2):222-226
Jul 1969 434.8 AC1
Acarina, Insect taxonomy, Mites.
- 11171-69**
THE APHIDIIDAE (HYMENOPTERA) OF FINLAND. (GE)
M Mackauer
Soc Fauna Flora Fenn Fauna Fenn (22):40P
MAP REF
- 1968 511 SO1
Aphidiinae, Braconidae, Insect identification, Insect taxonomy, Zoogeography.
- 11172-69**
THE CYPHOMYIA BICARINATA SPECIES GROUP (DIPTERA: STRATIOMYIDAE).
M W McFadden M T James
Kans Entomol Soc J 42(3):313-320
Jul 1969 420 K13
Insect taxonomy, Stratiomyidae, Zoogeography.
- 11173-69**
NOTES ON LANEELLA BRUNNIPES (SURCOUF, 1919) (DIPTERA, CALLIPHORIDAE).
R P Mello
Rev Brasil Biol 29(2):243-247
Jun 1969 442.8 R326
Calliphoridae, Insect taxonomy. Portuguese abstract.
- 11174-69**
NEOTROPICAL MIRIDAE: CVII: A DESCRIPTION OF FIVE NEW SPECIES FROM ECUADOR. (POR)
J C de Melo Carvalho I da Penha Gomes
Rev Brasil Biol 29(2):225-230 REF
Jun 1969 442.8 R326
Insect taxonomy, Miridae. English abstract.
- 11175-69**
SOME STIGMAEID MITES FROM SOUTH AFRICA (ACARI: TROMBIDIFORMES).
M K P Meyer
Acarologia 11(2):227-271 REF
Jul 1969 434.8 AC1
Insect taxonomy, Trombidiformes, Zoogeography.
- 11176-69**
AFRICAN GENERA OF ALLODAPINE BEES (HYMENOPTERA: ANTHOPHORIDAE: CERATININI).
C D Michener
Kans Entomol Soc J 42(3):289-293
Jul 1969 420 K13
Anthophorinae, Insect taxonomy.
- 11177-69**
NEW BRAZILIAN HESPERIIDAE (LEPIDOPTERA, HESPERIIDAE). (POR)
O H H Mielke
Rev Brasil Biol 29(1):1-12
Apr 1969 442.8 R326
Hesperiidae, Insect taxonomy. English abstract.
- 11178-69**
DESCRIPTION OF A NEW SPECIES OF THE GENUS, ACANTHACHRYSON BRUCH, 1921 (COLEOPTERA, CERAMBYCIDAE, ACHRYSONINI). (POR)
M A Monne
Rev Brasil Biol 29(2)279-282
Jun 1969 442.8 R326
Cerambycidae, Insect taxonomy. English abstract.
- 11179-69**
A REMARKABLE CASE OF ALARY DIMORPHISM IN THE ARADIDAE (HENIPTERA) WITH A GENERIC SYNONYMY AND A NEW SPECIES.
G B Monteith
Entomol Soc Australia (nsw) J 8(1):87-94
30 Jun 1969 423.92 EN84
Aradidae, Insect biology, Insect morphology, Insect taxonomy, Wings (insects), Zoogeography.
The genus *Zeugocoris* Usinger and Matsuda is sunk as a junior synonym of *Caecicoris* Kormilev since the respective type species, *Z. microcerus* (Walker) and *C. oiventris* Kormilev, are found to be dimorphic forms of the one species. The morphological changes associated with wing reduction in the micropterous morph are described and the taxonomic and biological implications of this dimorphism are discussed. Additional distributional and biological data for *C. microcerus* are presented and *C. latus* sp. n. is described from New Britain

ENTOMOLOGY

11180-69

11180-69

THE CONSPICUA SPECIES-GROUP OF TYPHLODROMINA MUMA 1961.

M. H. Muma H. A. Denmark

Entomol Soc Amer Ann 62(2):406-412

Mar 1969 420 EN82

Habitats, Insect taxonomy, Mites, Zoogeography.

11181-69

RESULTS OF A STUDY OF THE ORDER COLEOPTERA IN OUR COUNTRY. (AL X MURRAJ)

Tirana Inst Larte Shteteror Bujqesise Bul Shken

Bujq 22(1):31-46

1968 512 T51

Coleoptera, Insect identification, Insect taxonomy, Zoogeography. French summary.

161 species belonging to 33 families are listed.

11182-69

THE MALES OF TABANUS SPODOPTEROIDES. (GE)

N G Olsufcv J Moucha M Chvala

Angew Parasitol 10(2):124

May 1969 436.8 AN4

Insect taxonomy, Tabanidae, Tabanus.

11183-69

THREE NEW CEPHUS SPECIES FOR THE NETHERLANDS (HYN., CEPHID.). (DU)

S J van Ooststroom

Entomol Ber 28(12):239-240

01 Dec 1968 420 N38B

Cephidae, Insect taxonomy. English abstract.

11184-69

CIDARIA LUCTUATA IN OSTERIESLAND (LEP., GEOMETRIDAE). (GE)

U Paukstadt

Entomol Z 79(12):139-140

16 Jun 1969 421 EN85

Geometridae, Zoogeography.

11185-69

DESCRIPTION OF THE MALES OF ACYRTHOSIPHON CALVULUS OSS. (HEM.: HOM.).

J Pettersson

Entomol Tidskr 89(3-4):188-191

31 Dec 1968 421 EN891

Acyrtosiphon, Insect taxonomy.

11186-69

A REVISION OF THE NEOTROPICAL GENUS DASYSTOLE (LEPIDOPTERA: GEOMETRIDAE).

R W Poole

Kans Entomol Soc J 42(3):276-285

Jul 1969 420 K13

Geometridae, Insect taxonomy.

11187-69

IS RHYACIA SIMULANS REALLY SO RARE (LEP., NOCTUIDAE). (GE)

P Pretschner

Entomol Z 79(10):113

16 May 1969 421 EN85

Insect taxonomy, Noctuidae, Rhyacia, Zoogeography.

11188-69

THREE NEW SPECIES OF PSITTACOBROSUS FROM BRAZILIAN PARROTS.

R Price

Entomol Soc Amer Ann 62(2):393-396

Mar 1969 420 EN82

Insect taxonomy, Parrots, Psittacobrosus, Zoogeography.

11189-69

A NEW SPECIES OF AMYRSEIA FROM AN ORIENTAL PATRIDGE (MALLOPHAGA: MENOPONIDAE).

R D Price R E Elbel

Kans Entomol Soc J 42(3):336-338

Jul 1969 420 K13

BIBLIOGRAPHY

Birds, Insect taxonomy, Menoponidae, Parasitic insects.

11190-69

A CONTRIBUTION TO THE NOMENCLATURE OF THE PIEMATIDAE (HETEROPTERA). (GE)

G Proeseler

Beitr Entomol 17(1-2):305-307

1967 421 B392

Heteroptera, Nomenclature, Piesmidae. English and Russian abstracts.

11191-69

STUDIES ON THE INDIAN SPECIES OF THE GENUS COCCOPHAGUS WESTWOOD, 1883.

B R S Rao P S Rai

Ann Mag Natur Hist 3(3 JUL-SEP):381-392

Sep 1969 410 AN77

Coccophagus, Insect taxonomy.

11192-69

A NEW SPECIES OF THE GENUS ANISOTA (LEP., SATURNIIDAE) IN NORTH AMERICA. (GE)

J C E Riotte

Entomol Z 78(13):141-146

01 Jul 1969 421 EN85

Anisota, Insect taxonomy, Saturniidae.

11193-69

A REDESCRIPTION OF THE MICROTHROMBIOINAE OF BOLIVIA, ORIGINALLY DESCRIBED BY J. BOSHELL AND J. A. KERR IN 1942 (ACARI, THROMBIDIIDAE). (1ST PART). (FR)

P Robaux

Paris Mus Nat Hist Natur Bull 39(2, SER 2):293-307

10 Oct 1967 410.9 P213

Insect taxonomy, Mites, Zoogeography.

11194-69

INJURIOUS INSECTS IN 1967. (DU)

G van Rossem H C Burger C F van de Bund

Entomol Ber 28(11):206-210

01 Nov 1968 420 N38B

Insect pests, Surveys. English abstract.

11195-69

CICADULINA BIPUNCTELLA AND C. CHINAI FROM INDIA. (HEMIPTERA, CICADELLIDAE).

R F Ruppel

Kans Entomol Soc J 42(3):257-260

Jul 1969 420 K13

Cicadellidae, Insect taxonomy, Population.

11196-69

NEW SPECIES AND SUBSPECIES OF THE GENUS CHAETISOTHRIPS FROM THE CARIBBEAN AND CENTRAL AMERICAN REGION (THYSANOPTERA, THIRIPIDAE).

K Sakimura

Fla Entomol 52(3):123-135

Sep 1969 420 F662

Insect taxonomy, Thripidae, Zoogeography.

11197-69

A PRELIMINARY NOTE ON A REVIEW OF THE GENUS NEURISOTHRIPS, NEW GENUS (THYSANOPTERA: THIRIPIDAE).

K Sakimura

Hawaii Entomol Soc Proc 19(3):419-423

Jun 1967 420 H312

Insect taxonomy, Thripidae, Thysanoptera.

11198-69

NEW SPECIES OF SUBGENERA ISOTHRIPS AND ISOCHAETOTHRIPS FROM OCEANIA AND AUSTRALIA, WITH NOTE ON CHANGES IN NOMENCLATURE (THYSANOPTERA: THIRIPIDAE).

K Sakimura

Pacific Insects 11(1):71-80

1969 421 P11

Insect geography, Insect taxonomy, Thripidae.

11199-69

NOTOCHRYSA CAPITATA FABRICIUS IN SOUTHERN GERMANY (PLANIPENNIA, CHRYSOPIDAE). (GE)

H Schmid

Entomol Z 79(12):140

16 Jun 1969 421 EN85

Chrysopidae, Zoogeography.

11200-69

TWO NEW SPECIES OF GENUS AMBLYSEIUS IN THE U. A. R.: (ACARINA--PHYTOSEIIDAE).

K K Shehata M A Zaher

Acarologia 11(2):175-179

Jul 1969 434.8 AC1

Insect taxonomy, Phytoseiidae.

11201-69

A LIST OF LONGICORNIA OF CEARA (COLEOPTERA, CERAMBYCIDAE). (POR)

A G da Silva

Soc Cearense Agron Bol 8:33-36

Jun 1967 9.2 SO14B

Cerambycidae, Insect taxonomy. English abstract.

11202-69

MORPHOLOGY OF SPERMATOGENETIC TUBES AS TAXONOMIC CHARACTER IN TRIATONINAE (REDUVIIDAE, HEMIPTERA).

F P da Silva G Schreiber

Rev Brasil Biol 29(1):97-102

Apr 1969 442.8 R326

Insect taxonomy, Reduviidae, Reproductive organs.

11203-69

RESULTS OF THE ZOOLOGICAL INVESTIGATIONS OF DR. Z. KASZAB IN MONGOLIA. 86. STAPHYLINIDAE. II. SUBFAMILIES PAEDERINAE, XANTHOLININAE AND STAPHYLININAE (COLEOPTERA). 74. CONTRIBUTION TO THE KNOWLEDGE OF THE STAPHYLINIDAE. (GE)

A Smetana

Acta Ent Bohemoslov 64(3):195-218 MAP

1967 420 C33

Insect taxonomy, Paederinae, Staphylinidae, Staphylininae, Xantholininae. Czech abstract.

11204-69

CONTRIBUTION TO THE KNOWLEDGE OF THE SCORPIONS OF INDIA. 2. IOMACHUS LAEVICEPS POCOCK, 1893 (SCORPIONIDAE, ISCHNURINAE). (FR)

R P Sreenivasa-Teddy

Paris Mus Nat Hist Natur Bull 39(6, SER 2):1066-1076 MAP

09 Aug 1968 410.9 P213

Scorpionida, Taxonomy, Zoogeography.

11205-69

OBSERVATION OF CHALCEDECTUS SINAITICUS (MS.), AND DESCRIPTIONS OF C. BALACHOWSKYI SP. IN (HYM., CHALCEDECTIDAE) AND OOPRISTUS SAFAVII GEN. N., SP. N. (HYM., TORYMIDAE), TWO PARASITES OF ECONOMIC IMPORTANCE IN IRAN. (FR)

J R Steffan

Entomophaga 13(3):209-216

1968 421 EN835

Chalcedectoides, Insect taxonomy, Parasitic insects, Torymidae. English abstract.

11206-69

A NEW GENUS AND SPECIES OF MOSQUITO FROM COLOMBIA, GALINDOMYIA LEEI (DIPTERA, CULICIDAE, CULICINI).

A Stone P Barreto

J Med Entomol 6(2):142-146

May 1969 421 J828

Culicidae, Insect taxonomy.

11207-69

ON THE BIOLOGY OF SOME SPECIES OF PAPILIONIDAE FROM THE ISLAND OF CELEBES (EAST-INDONESIA).

R Straatman

- Entomol Ber* 28(12):229-233
01 Dec 1968 420 N38B
Forest insects, Insect biology, Papilionidae, Surveys.
- 11208-69**
CONIOPTERYX CERATA HAGEN, 1858, FURTHER DESCRIPTION AND LECTOTYPE DESIGNATION (NEUROPTERA, CONIOPTERYXIDAE).
B Tjeder
Entomol Tidskr 89(3-4):141-146
31 Dec 1968 421 EN891
Coniopterygidae, Insect taxonomy, Zoogeography.
- 11209-69**
COMPARISON OF ENZYMES OF TWELVE SPECIES OF MOSQUITOES.
A W Trebatoski J F Haynes
Entomol Soc Amer Ann 62(2):327-335 REF
Mar 1969 420 EN82
Culicidae, Electrophoresis, Enzymes, Insect taxonomy.
- 11210-69**
DROSOPHILA MIGRIVENTRIS MACQUART, 1843, A NEW SYNONYM OF D. MELANOGASTER MEIGEN, 1830 (DIPT. DROSOPHILIDAE). (FR)
L Tsacas
Paris Mus Nat Hist Natur Bull 39(1,SER 2):158-159
21 Jul 1967 410.9 P213
Drosophila melanogaster, Insect taxonomy.
- 11211-69**
COLEOPTERUS CERAMBYCIDAE OF ARABIA. (FR)
A Villiers
Paris Mus Nat Hist Natur Bull 39(5,SER 2):846-850
25 Apr 1968 410.9 P213
Cerambycidae, Insect taxonomy, Zoogeography.
- 11212-69**
A NEW AND UNUSUAL SPECIES OF BOLBO MYIA (DIPTERA: RHAGIONIDAE).
D W Webb
Kans Entomol Soc J 42(3):285-288
Jul 1969 420 K13
Insect taxonomy, Rhagionidae.
- 11213-69**
SOME ASPECTS OF ZOOGEOGRAPHY AND SPECIATION IN THE GENUS TELDENIA MOORE (DREPANIDAE: LEPIDOPTERA).
C Wilkinson
Ann Mag Natur Hist 3(3,JUL-SEP):367-380 MAP REF
Sep 1969 410 AN77
Insect taxonomy, Teldenia, Zoogeography.
- 11214-69**
A NEW NEOTROPICAL SPECIES OF MOSILUS (DIPTERA, EPHYDRIDAE).
W W Wirth
Fla Entomol 52(3):147-152
Sep 1969 420 F662
Ephydriidae, Insect taxonomy.
- 11215-69**
MACROLEPIDOPTERA IN 1967. (DU)
T H van Wisselingh
Entomol Ber 29(2):22
01 Feb 1969 420 N38B
Lepidoptera, Surveys. English abstract.
- 11216-69**
DISTRIBUTION DATA OF WESTERN EUROPEAN HYMENOPTERA. VII. FAMILY OF THE CEPHIDAE (SYMPHYTA). (FR)
F Wolf
Gembloux Inst Agron Bull Etat Ser Extraordinaire 3(4):754-762 REF
1968 105.1 G285
Cephidae, Insect taxonomy, Zoogeography.
- 11217-69**
DISTRIBUTION DATA OF WESTERN EUROPEAN HYMENOPTERA. VIII. FAMILY OF THE ARGIDAE (SYMPHYTA). (FR)
F Wolf
Gembloux Inst Agron Bull Etat Ser Extraordinaire 3(4):763-775 REF
1968 105.1 G285
Argidae, Insect taxonomy, Zoogeography.
- 11218-69**
THREE GENERA OF FAMILY TENUIPALPIDAE (ACARINA) IN THE U. A. R. WITH DESCRIPTION OF THREE NEW SPECIES.
M A Zaher A A Yousef
Acarologia 11(2):272-280
Jul 1969 434.8 AC1
Insect taxonomy, Mites, Tenuipalpidae, United Arab Republic.
- 11219-69**
CONTRIBUTION TO THE FAUNA OF LONGICORNIA IN THE STATE OF MARANHÃO (COLEOPTERA, CERAMBYCIDAE). (POR)
D Zajciw
Soc Cearense Agron Bol 8:1-12 REF
Jun 1967 9.2 SO14B
Cerambycidae, Insect taxonomy, Zoogeography. English abstract.
- PHYSIOLOGY AND BIOCHEMISTRY**
- 11220-69**
3,4-DIHYDROXY-MANDELIC ACID IN THE MUSHROOM GLAND OF COCKROACHES.
K G Adiyodi
Naturwissenschaften 56(7):373
Jul 1969 474 N213
Chromatography, Glands (insects), Hydroxy acids, Insect biochemistry, Mandelic acid, Periplaneta americana.
- 11221-69**
THE RELATIVE SUSCEPTIBILITY OF THE LARVAE OF SPODOPTERA MAURITIA ACRONYCTOIDES (GUENEE) (LEPIDOPTERA: NOCTUIDAE) TO SEVERAL CONTACT INSECTICIDES.
K Ando M Sherman
Hawaii Entomol Soc Proc 19(3):349-360 REF
Jun 1967 420 H312
Carbaryl, Chlordane, DDT, Fenthion, Insecticide resistant insects, Insecticides, Larvae, Malathion, Spodoptera.
- 11222-69**
PARASITES OF THE LARCH CASEBEARER, COLEOPHORA LARICELLA (HBN.), IN BRITISH COLUMBIA (LEPIDOPTERA: COLEOPHORIDAE).
R J Andrews N J Geistlinger
Entomol Soc Brit Columbia Proc 66:50-51
01 Aug 1969 420 B77
Braconidae, Chalcididae, Coleophora laricella, Eulophidae, Ichneumonidae, Insect ecology, Parasitic insects, Pteromalidae.
- 11223-69**
THE EFFECT OF RADIOACTIVE PHOSPHORUS ON THE DEVELOPMENT OF AEDES AEGYPTI LARVAE.
M Anwar L J Middleton
Hawaii Entomol Soc Proc 19(3):361-366
Jun 1967 420 H312
Aedes aegypti, Insect physiology, Larvae, Phosphorus, Radiation.
- 11224-69**
SUCCESSFUL LABORATORY MATING OF TWO SPECIES OF JACKRABBIT BOT FLIES.
C R Baird K J Capelle
J Med Entomol 6(2):196
May 1969 421 J828
Cuterebra, Insect behavior, Reproduction.
- 11225-69**
ARGININE CONTENT OF THE NEUROSECRETORY CELLS OF GRASSHOPPER, ACRIDA GIGANTEA HBST.
S K Banerjee
Indian J Exp Biol 7(2):125-126
Apr 1969 442.8 IN2
Acrididae, Arginine, Insect biochemistry, Insect physiology, Nervous system.
- 11226-69**
THE CONTENTS OF THE PHARYNGEAL GLANDS OF THE ANT MESSOR CAPITATUS LATR. (INSECTA, HYMENOPTERA, FORMICIDAE). (FR)
M Barbier B Delage
Acad Sci Compt Rend Ser D Sci Nat 264(11, 1ST SEMESTER):1520-1522 REF
13 Mar 1967 505 P21
Formicidae, Glands (insects), Insect biochemistry, Pharyngeal glands.
- 11227-69**
NOTES ON THE DISTRIBUTION AND BIONOMICS OF SOME IDAHO CERAMBYCIDAE (COLEOPTERA).
W F Barr R L Penrose
Great Basin Natur 29(2):88-95
31 Jul 1969 410 G79
Cerambycidae, Food habits, Habitats, Zoogeography.
- 11228-69**
THE PHOTORECEPTORS OF THE COLLEMBOLA. NEW FORMATIONS OF THE RHABDOMERIC STRUCTURE BELONGING TO THE GENUS TOMOCERUS (INSECTA, COLLEMBOLA). (FR)
J A Barra
Acad Sci Compt Rend Ser D Sci Nat 268(16, 1ST SEMESTER):2088-2090
21 Apr 1969 505 P21
Collembola, Cytology, Electron microscopy, Eyes, Insect morphology, Insect physiology, Tomocerus.
- 11229-69**
KOJIC ACID AS AN INSECTICIDAL MYCOTOXIN.
R L Beard G S Walton
J Invertebrate Pathol 14(1):53-59 REF
Jul 1969 421 J826
Aspergillus flavus, Insecticides, Musca domestica, Oncopeltus fasciatus, Toxicology, Toxins.
- 11230-69**
THE MAJOR HYDROCARBON OF A COCKROACH CUTICULAR WAX.
I M Beatty A R Gilby
Naturwissenschaften 56(7):373
Jul 1969 474 N213
Cuticle, Hydrocarbons, Insect biochemistry, Periplaneta americana, Waxes.
- 11231-69**
CORRELATION OF CELLULAR ACTIVITY IN WEISMANN'S RING WITH MOLTING CYCLES IN LARVAE OF MUSCA AUTUMNALIS.
R C Berberet P L Landers
Entomol Soc Amer Ann 62(2):446-447
Mar 1969 420 EN82
Insect histology, Insect physiology, Molting (insects), Musca autumnalis.
- 11232-69**
A HISTOLOGICAL AND BIOMETRICAL STUDY OF WING DEVELOPMENT IN THE GRASSHOPPER MELANOPLUS LAKINUS.
R G Bland W L Nutting
Entomol Soc Amer Ann 62(2):419-436 REF
Mar 1969 420 EN82
Insect histology, Insect morphology, Melanoplus, Metamorphosis, Mitosis, Statistics, Wings (insects).
- 11233-69**
THE ANATOMY AND HISTOLOGY OF THE MAXILLARY PALP OF SCHISTOCERCA GREGARIA (ORTHOPTERA, ACRIDIDAE).
W M Blaney R F Chapman

J Zool 157(4):509-535 REF

Apr 1969 410.9 L84P

Insect histology, Insect morphology, Insect physiology, Mouth parts, Nervous system, Schistocerca gregaria.

11234-69

SEX PHEROMONE OF TRYPOBENDRON LINEATUM: PRODUCTION IN THE FEMALE HINDGUT-MALPIGHIAN TUBULE REGION.

J H Borden C E Slater

Entomol Soc Amer Ann 62(2):454-455

Mar 1969 420 EN82

Insect physiology, Intestines, Malpighian tubes, Pheromones, Sex behavior, Trypodendron lineatum.

11235-69

FECAL FILAMENTS PRODUCED BY FUNGUS INFESTING LARVAE OF PLATYDEMA OREGONENSE.

J H Borden M McClaren M A Horta

Entomol Soc Amer Ann 62(2):444-446

Mar 1969 420 EN82

Entomogenous fungi, Feces, Insect physiology, Larvae, Polyporus, Spores, Tenebrionidae.

11236-69

INDUCTION OF MORPHOLOGICAL ABERRATIONS BY ENZYME INHIBITION IN DROSOPHILA MELANOGASTER.

M Bos W Scharloo R Bijlsma de Boer J den Hollander

Experientia 25(8):811-812 REF

15 Aug 1969 475 EX7

Drosophila melanogaster, Enzymes, Insect biochemistry, Insect morphology, Mutations.

11237-69

METHOD FOR THE DETECTION AND REGISTRATION OF WEAK SOUNDS, SUCH AS THE GNAWING OF INSECT LARVAE. (DU)

D Ch Brandt

Entomol Ber 28(12):236-238

01 Dec 1968 420 N38B

Food habits, Larvae, Methodology, Sound waves, Stridulation. English abstract.

11238-69

ELECTRON MICROSCOPY OF THE STRIATED BORDER OF THE MIDGUT CELLS OF JAVESSELLA PELLUCIDA (F.) (HOMOPTERA, DELPHACIDAE).

J Break O Kralik

Acta Ent Bohemoslov 64(3):173-174

1967 420 C33

Delphacidae, Electron microscopy, Intestines, Javesella pellucida.

11239-69

NEW PHOTORECEPTORS PLACED IN EVIDENCE IN THE DICTYOPTERA: THE PARAOCELLAR ORGANS. (FR)

P Brousse-Gaury

Acad Sci Compt Rend Ser D Sci Nat 264(19, 1ST SEMESTER):2317-2320 REF

08 May 1967 505 P21

Insect histology, Orthoptera, Periplaneta americana, Phototropism.

11240-69

ATTRACTION OF APIS MELLIFERA DRONES BY THE ODOURS OF THE QUEENS OF TWO OTHER SPECIES OF HONEYBEES.

C G Butler D H Calam R K Callow

Nature 213(5074):423-424

28 Jan 1967 472 N21

Apis florea, Apis indica, Apis mellifera, Attractants, Ethyl alcohol, Pheromones, Queen bees, Smell.

11241-69

HISTOLOGY OF THE MALE AUXILIARY GLANDS OF SCHISTOCERCA GREGARIA F. (ORTHOPTERA). EFFECT OF ALLATECTOMY ON THEIR STRUCTURE AND FUNCTION. (FR)

A M Cantauzene

Acad Sci Compt Rend Ser D Sci Nat 264(1, 1ST SEMESTER):93-96

04 Jan 1967 505 P21

Corpora allata, Glands (insects), Insect histology, Insect physiology, Schistocerca gregaria.

11242-69

GROWTH OF THE TREHALA AND ITS NEURO-ENDOCRINE CONTROL IN THE MIGRATORY LOCUST, LOCUSTA MIGRATORIA MIGRATORIOIDES, THE IDENTIFICATION OF TREHALOSE IN THE HEMOLYMPH. (FR)

D Chalaye

Acad Sci Compt Rend Ser D Sci Nat 268(24, 1ST SEMESTER):2944-2947

16 Jun 1969 505 P21

Chromatography, Hemolymph, Insect biochemistry, Locusta migratoria, Trehalose.

11243-69

RECORDINGS OF THE ACTIVITY OF THREE NEURONS IN THE CERCAL BASICONICA SENSILLA OF LOCUSTA MIGRATORIA L. (ORTHOPTERA, ACRIDIDAE). (FR)

I Chambille-Jaillet

Paris Soc Biol Compt Rend 163(1):92-96

16 Jun 1969 442.9 P21

Electrophysiology, Insect physiology, Locusta migratoria, Nervous system.

11244-69

THE FORAGING BEHAVIOUR OF ATTA CEPHALOTES L. (HYMENOPTERA, FORMICIDAE). I. FORAGING PATTERN AND PLANT SPECIES ATTACKED IN TROPICAL RAIN FOREST.

J M Cherratt

J Anim Ecol 37(2):387-403 MAP REF

Jun 1968 410 J826

Atta, Formicidae, Guyana, Insect behavior, Insect nutrition, Surveys.

11245-69

COMPARATIVE TOXICITY (MAMMALS, INSECTS, MITES) OF NEW PHOSPHORYLATE DERIVATIVES OF AMINOETHYLTHIOL. (FR)

J Cheymol P Chabrier T N Thanh P Savignac A Thizy Et Al

Acad Sci Compt Rend Ser D Sci Nat 268(16, 1ST SEMESTER):2150-2153

21 Apr 1969 505 P21

Chemical control (insects), Chemistry, Insecticides, Mice, Mites, Organophosphorus compounds.

11246-69

GREGARINIDAE: NEW ORTHOPTERAN PARASITES. (FR)

J C Corbel

Paris Mus Nat Hist Natur Bull 39(5, SER 2):992-996

25 Apr 1968 410.9 P213

Gregarina, Insect diseases, Orthoptera, Taxonomy.

11247-69

ULTRASTRUCTURE OF THE VAS DEFERENS OF APIS MELLIFERA L. (POR)

C da Cruz landim M A da Cruz hofling

Rev Brasil Biol 29(2):181-190 REF

Jun 1969 442.8 R326

Apis mellifera, Electron microscopy, Insect morphology, Reproductive organs. English abstract.

11248-69

STUDIES ON THE INCIDENCE OF MOSQUITOES IN THE FOOD OF TETRAGNATHA MONTANA SIMON AND ITS FOOD ACTIVITY IN THE NATURAL HABITAT.

E Dabrowska-Prot J Lueczak

Ekol Pol Ser A (SER A) 16(43):844-853

1968 512 W263

Culicidae, Forest insects, Habitats, Insect nutrition, Predaceous insects, Tetragnatha montana. Polish summary.

11249-69

PREY AND PREDATOR DENSITY AND THEIR REACTIONS IN THE PROCESS OF MOSQUITO REDUCTION BY SPIDERS IN FIELD EXPERIMENTS.

E Dabrowska-Prot J Lueczak K Tarwid

Ekol Pol Ser A (SER A) 16(40):773-820

1968 512 W263

Biological control (insects), Culicidae, Dolomedes fimbriatus, Predaceous insects, Tetragnatha montana. Polish summary.

11250-69

OBSERVATIONS ON THE RELATION OF LIGHT TO THE DROPPING OF THE TICK IXODES TEXANUS BANKS.

P G E Darling

Entomol Soc Brit Columbia Proc 66:26-28

01 Aug 1969 420 B77

Insect behavior, Ixodes texanus, Light, Photoperiodism.

11251-69

FORMALDEHYDE AS AN ANTIVIRAL AGENT AGAINST A GRANULOSIS VIRUS OF PIERIS BRASSICAE.

W A L David S Ellaby G Taylor

J Invertebrate Pathol 14(1):96-101 REF

Jul 1969 421 J826

Formaldehyde, Granuloses, Insect diseases, Pieris brassicae, Virus diseases.

11252-69

SURVIVAL OF MYZUS PERSICAE (APHIDIDAE) TREATED WITH HEAT AND THEN EXPOSED TO DIFFERENT TEMPERATURES. (FR)

L De Reggi

Entomol Exp Appl 11(4):372-378 REF

1968 421 EN895

Heat, Longevity, Myzus persicae, Temperature. English abstract.

11253-69

BRITISH LEPIDOPTERA COLLECTING, 1968.

C G M De Worms

Entomologist (london) 102(1273):133-142

Jun 1969 421 EN8

Lepidoptera, Seasonal variation.

11254-69

NEUROSECRETION IN THE CAVE COLEOPTERA. IMAGO. (FR)

S Deleuranee

Acad Sci Compt Rend Ser D Sci Nat 264(2, 1ST SEMESTER):392-394

09 Jan 1967 505 P21

Coleoptera, Insect physiology, Nervous system, Secretions.

11255-69

STUDIES OF THE GYPONINAE: A NEW GENUS, PONANELLA, AND SEVEN NEW SPECIES (HOMOPTERA: CICADELLIDAE).

D M DeLong P H Fregtag

Kans Entomol Soc J 42(3):303-312

Jul 1969 420 K13

Cicadellidae, Insect taxonomy.

11256-69

ITALIAN EXPERIENCES WITH A NEW ACARICIDE PRODUCT: C 8514 OR GALECRON. (IT)

S Di Caro

Giornate Fitopatol 415-421

26 Mar 1967 SB599.G5

Acaricides, Chemical control (insects), Chloro-o-tolyl-N,N-dimethylformamidine, N²-(4-, Ovicides, Panonyehus ulmi.

11257-69

COMPLETE LIST OF THE MONOGRAPHS IN THE TROTTER STUDY OF CECIDIOLOGY. (IT)

M Di Stefano

Marcellia 35(1-2, MAR-JUN):3-44

Jun 1968 421 M33

Bibliography, Cecidomyiidae, Literature, Reviews.

11258-69

MORPHOLOGY OF THE REPRODUCTIVE SYSTEM OF STRUMETA TRYONI (FROG-GATT) (DIPTERA: TRYPETIDAE) WITH A METHOD OF DISTINGUISHING SEXUALLY MATURE ADULT MALES.

R A I Drew

Entomol Soc Australia (nsw) J 8(1):21-32

30 Jun 1969 423.92 EN84

Insect identification, Insect morphology, Reproductive organs, Sex determination, Trypetidae.

Growth changes in adult male endoskeleton are described under differing conditions of temperature and light intensity. For the environmental conditions studied, physiological age was correlated with size of the male reproductive endoskeleton and a method for distinguishing teneral from sexually mature adults is given.

11259-69

LABORATORY STUDY OF ANOCENTOR NITENS (NEUMANN) (ACARINA: IXODIDAE). THE TROPICAL HORSE TICK.

R O Drummond T M Whetstone S E Ernst W J Gladney

J Med Entomol 6(2):150-154 REF

May 1969 421 J828

Anocentor nitens, Insect biology, Insect rearing, Ixodidae, Life cycle.

11260-69

EFFECT OF STARVATION ON THE BLACK CARPET BEETLE, ATTAGENUS MEGATOMA, INFECTED WITH THE EUGREGARINE PYXINIA FRENZELI.

F V Dunkel G M Boush

J Invertebrate Pathol 14(1):49-52

Jul 1969 421 J826

Attagenus megatoma, Diet, Eugregarina, Insect diseases, Insect nutrition.

11261-69

CELLULAR RESPONSE IN THE FEMALE GONADS OF GALLERIA MELLONELLA L. (LEPIDOPTERA) TO THE EXPERIMENTAL DISTURBANCES IN THE NORMAL SUPPLY OF HORMONES.

A Dutkowski A Przelecka

Zool Pol 19(2):151-166 REF

1969 410 Z712

Cytology, Galleria mellonella, Hormones, Insect hormones, Insect physiology, Ovaries.

11262-69

A NEW SPECIES OF THE GENUS DISSURUS VERMA, 1936 (TREMATODA: ECHINOSTOMATIDAE).

M P Dwivedi

Natur Appl Sci Bul 20(3,JUL-SEP):267-275

Jul 1967 475 P532

Birds, Parasitism, Trematoda.

11263-69

INFLUENCE OF TEMPERATURE INVERSION ON DEVELOPMENT OF SPRUCE BEETLE, DENDROCTONUS OBESUS (MANNERHEIM) (COLEOPTERA: SCOLYTIDAE).

E D A Dyer

Entomol Soc Brit Columbia Proc 66:41-45

01 Aug 1969 420 B77

Dendroctonus obesus, Insect biology, Insect physiology, Scolytidae, Temperature.

11264-69

LIFE HISTORY AND BEHAVIOR OF PARDOSA LAPIDICINA EMERTON (ARANEAE: LYCOSIDAE).

R R Eason

Kans Entomol Soc J 42(3):339-360

Jul 1969 420 K13

Araneae, Insect biology, Lycosidae, Seasonal variation.

11265-69

THE EFFECT OF SOME TRACE ELEMENTS ON GROWTH, REPRODUCTION, AND SYMBIANTS OF ARTIFICIALLY FED NEOMYZUS CIRCUMFLEXUS BUCKT. (APHIDAE, HOMOPTERA, INSECTA). (GE)

P Ehrhardt

Z Vergleichende Physiol 58(1):47-75 REF

1968 444.8 Z3

Calcium, Copper, Insect nutrition, Insect physiology, Iron, Manganese, Micronutrients, Neomyzus

circumflexus, Reproduction, Symbiosis, Zinc. English summary.

11266-69

CONTEMPORARY LITERATURE--MALLOPHAGA. (I). (GE)

W Eichler J Zlotorzyczka

Angew Parasitol 10(2):104-124 REF

May 1969 436.8 AN4

Bibliography, Mallophaga.

11267-69

NUCLEIC ACID. AMINO ACID. AND CARBOHYDRATE METABOLISM OF NURSE CELL NUCLEOLI IN MUSCA DOMESTICA.

W Engels D Ribbert

Experientia 25(8):805-807

15 Aug 1969 475 EX7

Amino acids, Autoradiography, Carbohydrates, Insect metabolism, Musca domestica, Nucleic acids, Ovaries.

11268-69

BIOLOGY OF THE TWO-LINED SPITTLEBUG, PROSAPIA BICINCTA, ON FLORIDA PASTURES (HOMOPTERA, CERCOPIIDAE).

E B Fagan L C Kuitert

Fla Entomol 52(3):199-206 REF

Sep 1969 420 F662

Cercopidae, Insect biology, Insect rearing, Pastures, Prosapia bicincta.

11269-69

A LABORATORY INVESTIGATION OF MATURATION IN THE CUBAN BORROWING COCKROACH BYRSOTRIA FOMIGATA (EUERIN).

W R Fleischman H K Miller R N Skavari

Ohio J Sci 68(1):11-17

Jan 1968 410 OH3

Blattidae, Byrsotria fumigata, Insect physiology, Maturation.

11270-69

PIGMENT DEVELOPMENT IN MALE INTEGUMENT TRANSLANTED ONTO FEMALES IN THE DESERT LOCUST, SCHISTOCERCA GREGARIA.

W H Fogal

Entomol Exp Appl 11(4):475-476

1968 421 EN895

Corpora allata, Cuticle, Insect physiology, Schistocerca gregaria.

11271-69

CONCERNING EVOLUTION BY STAGES IN CERTAIN ARTHROPODS. (FR)

J P C da Fonseca

Acarologia 11(2):159-162 REF

Jul 1969 434.8 AC1

Insect biology, Insect evolution, Insect genetics, Mites, Oribatei.

11272-69

THE NATURAL INVASION OF ARTIFICIAL CLIFF SWALLOW NESTS BY OECIACUS VICARIUS (HEMIPTERA: CIMICIDAE) AND CERATOPHYLLUS PETROCHELIDON: (SIPHONAPTERA: CERATOPHYLLIDAE).

W A Foster W Olkowski

J Med Entomol 5(4):488-491

30 Oct 1968 421 J828

Ceratophyllus, Cimicidae, Insect behavior, Medical entomology, Nesting habits, Siphonaptera.

11273-69

CHANGES IN HAEMOLYMPH AND CUTICLE PROTEINS DURING THE MOLTING PROCESS IN THE AMERICAN COCKROACH.

F R Fox R R Mills

Compar Biochem Physiol 29(3):1187-1195 REF

Jun 1969 444.8 C73

Blood, Cuticle, Electrophoresis, Insect biochemistry, Molting (insects), Periplaneta americana, Proteins.

Twelve negatively charged protein bands were found by acrylamide gel electrophoresis to be

present in the hemolymph of the American cockroach during the molting cycle. Fourteen soluble cuticle proteins appear at one stage of ecdysis, some having similar mobilities to the blood proteins. The levels of concentration are discussed with emphasis on the blood and cuticle protein relationships.

11274-69

PROTEOLYTIC ENZYMES OF THE CROP FLUID FROM LOCUSTA MIGRATORIA L.

M A Freeman

Compar Biochem Physiol 20(3):1013-1015

Mar 1967 444.8 C73

Electrophoresis, Enzymes, Gastrointestinal system, Insect biochemistry, Locusta migratoria, Proteinases.

11275-69

ON THE ABILITY OF THE FEMALE IMAGINAL CORPORA ALLATA TO INDUCE SUPERNUMARY MOLT IN BOMBYX MORI L. (FR)

S Fukuda S Takeuchi

Terre Vie 163(1):234-236

16 Jun 1969 410.9 P21

Bombyx mori, Corpora allata, Insect hormones, Insect physiology, Molting (insects).

11276-69

PRODUCTION OF THE PROTOCEPHALIC NEUROSECRETION PRODUCT IN THE AXONAL PASSAGE OF THE INSECTA, PTERYGOTA. (FR)

M Gabe

Acad Sci Compt Rend Ser D Sci Nat 264(7, 1ST SEMESTER):943-945

13 Feb 1967 505 P21

Hormones, Insect physiology, Insects, Nervous system, Secretions.

11277-69

CERTAIN REACTIONS IN HONEY BEES TO THE FLOW OF ELECTRIC CURRENT OF DIFFERENT PARAMETERS.

H Galuszka J Lisiecki

Zool Pol 19(2):197-211

1969 410 Z712

Apis mellifera, Electricity, Insect behavior, Insect physiology.

11278-69

BIOCHEMICAL AND AUTORADIOGRAPHIC STUDIES OF DNA SYNTHESIS IN THE SALIVARY GLAND OF THE MELONFLY, DACUS CUCURBITAE.

H N B Gopalan C M S Dass

Indian J Exp Biol 7(1):29-31

Jan 1969 442.8 IN2

Autoradiography, Dacus cucurbitae, Deoxyribonucleic acid, Glands (insects), Insect biochemistry, Larvae, Salivary glands, Synthesis.

11279-69

NOTES ON THE MUSCLES CLOSING THE ANAL AND GENITAL OPENING AND ON THE REPRODUCTIVE STRUCTURE IN MATURE ORIBATEI. (FR)

F Grandjean

Acarologia 11(2):317-347 REF

Jul 1969 434.8 AC1

Insect morphology, Muscles, Oribatei, Reproductive organs.

11280-69

STERILE CULTURE OF MUSCA SORBENS.

B Greenberg

Entomol Soc Amer Ann 62(2):450

Mar 1969 420 EN82

Germ-free life, Insect rearing, Methodology, Musca.

11281-69

OVIPOSITION CHARACTERISTICS AND EARLY LARVAE MORTALITY OF SAPERDA INORNATA AND OBEREA SCHAUMII IN MICHIGAN ASPEN.

D G Grimble J C Nord F B Knight

ENTOMOLOGY

11282-69

Entomol Soc Amer Ann 62(2):308-315

Mar 1969 420 EN82

Cerambycidae, Larvac, Longevity, Oviposition, Populus.

11282-69

TICK-HOST RELATIONSHIPS. I. THE EXISTENCE OF A CIRCADIAN RHYTHM OF DROP-OFF OF ENGORGED TICKS FROM THEIR HOSTS.

A Hadani Y Rechau

Acta Trop 26(2):173-179 REF

1969 475 AC8

Diurnal rhythm, Insect behavior, Insect nutrition, Ixodides.

11283-69

OXYGEN CONSUMPTION OF THE SCORPION CENTRUROIDES SCULPTURATUS.

N F Hadley R D Hill

Compar Biochem Physiol 29(1):217-226 REF

Apr 1969 444.8 C73

Aging, Centruroides sculpturatus, Insect metabolism, Insect respiration, Oxygen, Scorpionida, Sex, Temperature.

11284-69

ARTIFICIAL DIET FOR THE ADULT FROGHOPPER.

E A C Hagley

Nature 213(5074):414-415

28 Jan 1967 472 N21

Aeneolamia varia saccharina, Amino acids, Diet, Insect nutrition, Leaves, Lipids, Mortality, Sugar-cane, Vitamins.

11285-69

THE EQUILIBRIUM REACTION SORBITOL (REVERSIBLE REACTION) FRUCTOSE IN THE INTACT MOSQUITO.

E van Handel

Compar Biochem Physiol 29(3):1023-1030 REF

Jun 1969 444.8 C73

Aedes sollicitans, Chemical reactions, Fructose, Glucitol, Insect biochemistry, Insect metabolism.

11286-69

EXTENSION OF THE HOST RANGE OF NOSEMA LOCUSTAE IN ORTHOPTERA.

J E Henry

Entomol Soc Amer Ann 62(2):452-453

Mar 1969 420 EN82

Insect diseases, Nosema locustae, Orthoptera, Surveys.

11287-69

SOME OBSERVATIONS ON FLIGHT IN ONCOPELTUS FASCIATUS (HEMIPTERA: LYGAEIDAE).

R J Hewson

Entomol Soc Brit Columbia Proc 66:45-49

01 Aug 1969 420 B77

Insect behavior, Insect flight, Oncopeltus fasciatus, Wings (insects).

11288-69

MORPHOLOGICAL, SYSTEMATIC, AND BIOMETRIC DISCUSSION ON AGRION (CERCION) LINDENI SELYS, 1840. (ODONATA ZYGOPTERA). (FR)

A Heymer

Paris Mus Not Hist Natur Bull 39(2,SER 2):879-897 REF

25 Apr 1968 410.9 P213

Insect biology, Insect morphology, Insect taxonomy, Odonata, Zoogeography. German abstract.

11289-69

COMPARATIVE ECOLOGY OF SOME HYMENOPTEROUS EGG PARASITES OF THE PINE MOTIL, DENDROLIMUS SPECTABILIS BUTLER (LEPIDOPTERA: LASIOCAMPIDAE), WITH SPECIAL REFERENCE TO THE FACTORS AFFECTING THEIR EFFICIENCY AS NATURAL ENEMIES. (JA)

Y Hirose

Kyushu Univ Fac Agr Sci Bull 24(2):115-148

REF

Jun 1969 107.6 K995B

BIBLIOGRAPHY

Dendrolimus spectabilis, Egg parasite, Hymenoptera, Insect biology, Insect ecology, Lasiocampidae, Surveys. English abstract.

11290-69

INTERPRETATION OF THE STRUCTURES CALLED CENTRIOLES IN THE HYPERMASTIGIAN SYMBIOTES OF TERMITES AND OF CRYPTOCERCUS. (FR)

A Hollande J Valentin

Acad Sci Compt Rend Ser D Sci Not 264(15, 1ST SEMESTER):1868-1871

10 Apr 1967 505 P21

Cryptocercus, Cytology, Insect physiology, Protozoa, Symbiosis, Termites.

11291-69

CHANGES IN GLAND VOLUME DURING THE POST-DIAPAUSE DEVELOPMENT IN EMBRYOS OF AULOCARA ELLIOTTI (THOMAS) (ORTHOPTERA, ACRIDIDAE).

S N van Horn

Montono Acad Sci Proc 28:75-75 REF

1968 500 M762

Acrididae, Aulocara ellioti, Embryos, Glands (insects), Insect physiology, Morphology, Volumetric analysis.

11292-69

OBSERVATIONS ON THE NESTS AND BEHAVIOUR OF SOME EURYGLOSSINE BEES (HYMENOPTERA: COLLETIDAE).

T F Houston

Entomol Soc Australio (nsw) J 8(1):1-10 REF

30 Jun 1969 423.92 EN84

Colletidae, Gasteruptionidae, Insect behavior, Insect nests, Predaceous insects.

11293-69

PREFERENCE FOR WOOD OF DIFFERENT DEGREES OF DAMPNES IN SOME TERMITES FROM CUBA (ISOPTERA).

I Hrdy J Zeleny

Acto Ent Bohemoslov 64(5):352-363 REF

1967 420 C33

Humidity, Insect behavior, Insect nutrition, Termites, Wood.

11294-69

EXPLANATION OF THE MOLECULAR STRUCTURE OF INSECT HEMOGLOBINS. (GE)

R Huber O Epp H Formanek

Naturwissenschaften 56(7):362-367 REF

Jul 1969 474 N213

Chemical structure, Chironomus thummi, Hemoglobin, Hemolymph, Insect biochemistry.

11295-69

THE STIMULATING ACTION OF THE SPERMATOPHORE ON OOGENESIS IN ACANTHOSCELIDES OBTECTUS SAY (INSECTA, COLEOPTERA). (FR)

J Huignard

Acad Sci Compt Rend Ser D Sci Nat 268(24, 1ST SEMESTER):2938-2940

16 Jun 1969 505 P21

Acanthoscelids obtectus, Insect physiology, Oogenesis, Spermatophores.

11296-69

THE SPECTRAL SENSITIVITY AND THE COMPONENTS OF THE VISUAL SYSTEM IN THE STEMATA OF SILKWORM LARVAE, BOMBYX MORI L. (LEPIDOPTERA: BOMBYCIDAE).

S Ishikawa

Appl Entomol Zool 4(2):87-99 REF

Jun 1969 SB599.A6

Bombyx mori, Eyes, Insect behavior, Insect physiology, Larvac, Light.

11297-69

IN VITRO CULTURE OF OVARY OF THE PLANT BUG, IPHITA LIMBATA STAL.

P I Ittycheriah S Stephanos

Indian J Exp Biol 7(1):17-19 REF

Jan 1969 442.8 IN2

Corpora allata, Fat body, Insect physiology, Iphita limbata, Methodology, Ovaries, Tissue culture.

11298-69

NATURAL AND SYNTHETIC MATERIALS WITH INSECT HORMONES ACTIVITY. 8. JUVENILE ACTIVITY OF THE FARNESANE-TYPE COMPOUNDS ON GALLERIA MEL-LONELLA.

V Jarolim K Hcjno F Sehnal F Sorm

Life Sci 8(16,PT 2):831-841 REF

15 Aug 1969 442.8 L62

Farnesol, Galleria mellonella, Insect physiology, Juvenile hormone.

11299-69

THE NESTING ACTIVITIES OF THE VESPOID POTTER WASP EUMENES CAMPANIFORMIS ESURIENS (FABR.) COMPARED WITH THE ECOLOGICALLY SIMILAR SPHECOID SCHELIPHRON MADRASPATANUM (FABR.) (HYMENOPTERA).

S D Jayakar H Spurway

Bombay Natur Hist Soc J 65(1):148-181 REF

Apr 1968 513 B63

Insect behavior, Insect biology, Insect nests, Sphecidae, Vespidae.

11300-69

AMYDRIA EFFRENTELLA FROM NESTS OF MOUNTAIN BEAVER, APLODONTIA RUFA.

N E Johnson P Martin

Entomol Soc Amer Ann 62(2):396-399

Mar 1969 420 EN82

Beavers, Habitats, Insect biology, Tineidae.

11301-69

THE ROLE OF SPIDERS IN THE DECREASE OF DAMAGES CAUSED BY ACRIDOIDEA ON MEADOWS - EXPERIMENTAL INVESTIGATIONS.

A Kajak L Andrezejewska Z Wojcik

Ekol Pol Ser A (SER A) 16(38):755-765

1968 512 W263

Acridoidea, Araneus quadratus, Biological control (insects), Habitats, Predaceous insects. Polish summary.

11302-69

STUDIES ON THE UTILIZATION OF NATURAL ENEMIES AS BIOTIC INSECTICIDES. MATING OF PSEUDAPHYCUS MALINUS GAHAN AND SEX OF THE PROGENY. (JA)

H Kajita

Kyushu Univ Fac Agr Sci Bull 24(2):157-159

Jun 1969 107.6 K995B

Insect behavior, Insect biology, Pseudaphycus malinus, Sex behavior. English abstract.

11303-69

STUDIES ON THE UTILIZATION OF NATURAL ENEMIES AS BIOTIC INSECTICIDES. DENSITY EFFECT IN THE MASS CULTURE OF PSEUDAPHYCUS MALINUS GAHAN. (JA)

H Kajita

Kyushu Univ Fac Agr Sci Bull 24(2):161-166

Jun 1969 107.6 K995B

Insect biology, Insect rearing, Parasitic insects, Population, Pseudaphycus malinus. English abstract.

11304-69

STUDIES ON THE UTILIZATION OF NATURAL ENEMIES AS BIOTIC INSECTICIDES. EFFECT OF PHYSICAL FACTORS ON THE CULTURE OF PSEUDAPHYCUS MALINUS GAHAN. (JA)

H Kajita

Kyushu Univ Fac Agr Sci Bull 24(2):167-172

Jun 1969 107.6 K995B

Humidity, Insect rearing, Light, Parasitic insects, Pseudaphycus malinus, Reproduction, Temperature. English abstract.

11305-69

RESUMPTION OF YOLK FORMATION AFTER THE IMPLANTATION OF CORPORA ALLATA IN PIERIS BRASSICAE L. (LEPIDOPTERA). (FR)

- A Karlinsky
Acad Sci Compt Rend Ser D Sci Nat 264(13, 1ST SEMESTER):1735-1738
29 Mar 1967 505 P21
Corpora allata, Insect reproduction, Oogenesis, Pieris brassicae, Tissue transplants.
- 11306-69
NUTRITIONAL STUDIES ON EXCESSIVE LARVAL MOLTING IN THE SILKWORM BOMBYX MORI.
M Kato K Sumimoto
Annot Zool Jap 41(4):140-147 REF
Dec 1968 410 AN79
Bombyx mori, Insect nutrition, Insect physiology, Larvae, Molting (insects).
- 11307-69
FATTY ACID METABOLISM IN DROSOPHILA MELANOGASTER: INTERACTION BETWEEN DIETARY FATTY ACIDS AND DE NOVO SYNTHESIS.
A D Keith
Compar Biochem Physiol 21(3):587-600 REF
Jun 1967 444.8 C73
Chromatography, Drosophila melanogaster, Fatty acids, Insect biochemistry, Insect metabolism, Larvae, Radioisotopes.
- 11308-69
THE DIGESTIVE ENZYMES OF THE LARVA OF UTETHEISA PULCHELLA LINNAEUS (LEPIDOPTERA: ARCTIIDAE).
N Khatoon
Beitr Entomol 17(3-4):349-356
1967 421 B392
Arctiidae, Digestion, Enzymes, Insect biochemistry, Larvae, Utetheisa pulchella.
- 11309-69
NOTES ON REMARKABLE COLOR VARIATIONS OF CRYPTOCEPHALUS AMICULUS BALY OCCURRING ON MT. HIKO AND ITS ADJACENT AREAS.
S Kimoto
Esakia (7):71-73
31 Jan 1969 421 E51
Chrysomelidae, Color, Insect morphology, Surveys.
- 11310-69
THE STRUCTURE OF THE FEMALE REPRODUCTIVE SYSTEM IN THE MYMARIDAE (CHALCIDOIDEA: HYMENOPTERA).
P E King M J W Copland
Ann Mag Natur Hist 3(3,JUL-SEP):349-365 REF
Sep 1969 410 AN77
Insect morphology, Mymaridae, Reproductive organs.
- 11311-69
HYDRAECIA PETASITIS IN MOUNTAINOUS COUNTRY, (LEP., NOCTUIDAE). (GE)
H Kinkler F Nippel W Schmitz
Entomol Z 79(10):106-108,109-110
16 May 1969 421 EN85
Hydraecia, Insect biology, Insect ecology, Noctuidae, Zoogeography.
- 11312-69
LARVAL DENSITY AND ADULT FECUNDITY IN A NATURAL POPULATION OF THE PINE LOOPER (BUPALUS PINIARIUS L.).
H Klomp
Arch Neer Zool 23(1):319-334 REF
1958 410 AR27
Bupalus, Fertility, Insect biology, Insect physiology, Insect populations, Larvae. German summary.
- 11313-69
EGG PRODUCTION BY THE ENGELMANN SPRUCE BEETLE, DENDROCTONUS OBESUS, IN RELATION TO STATUS OF INFESTATION.
F B Knight
Entomol Soc Amer Ann 62(2):448
Mar 1969 420 EN82
Dendroctonus obesus, Insect behavior, Insect eggs, Oviposition, Population.
- 11314-69
THE EFFECT OF CORPORA ALLATA TRANSPLANTED FROM BOMBYX MORI TO OTHER SPECIES OF LEPIDOPTERA (LEPIDOPTERA: BOMBYCIDAE AND SATURNIIDAE).
M Kobayashi W J Burdette
Appl Entomol Zool 4(2):66-69
Jun 1969 SB599.A6
Bombycidae, Corpora allata, Development, Insect physiology, Saturniidae.
- 11315-69
PSILOCOCCUS PARVUS BORCHSENIUS (HOMOPTERA, COCCOIDEA)-MORPHOLOGY, BIOLOGY AND TAXONOMY.
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Acta Zool Cracov 14(2):21-41
31 Jan 1969 410 AC86
Coccoidea, Food habits, Insect biology, Insect morphology, Insect taxonomy, Life cycle, Weather, Zoogeography.
- 11316-69
CARRION BEETLES (NECROPHORUS SPP.) IN THE NETHERLANDS (COL.). (DU)
W K Kraak H Westra
Entomol Ber 29(2):34-39
01 Feb 1969 420 N38B
Insect behavior, Insect collecting equipment, Silphidae. English abstract.
- 11317-69
FEEDING ACTIVITY OF EPILACHNA VIRGINIOTACTO-PUNCTATA ON LUFFA AEGYPTIACA.
S S Krishna A K Sinha
Entomol Soc Amer Ann 62(2):450-451
Mar 1969 420 EN82
Cucurbitaceae, Epilachna, Food habits, Insect behavior.
- 11318-69
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1968 105.1 G285
Diptera, Forests, Insect ecology, Plant ecology, Surveys.
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J Krywienzyk T A Angus
J Invertebrate Pathol 14(1):105-107
Jul 1969 421 J826
Bacillus thuringiensis, Bombyx mori, Immunology, Insect behavior, Larvae, Malacosoma disstria.
- 11320-69
THE DENSITY-RELATED ACTION OF APHIDOPHAGOUS INSECTS.
J H Kuchlein
Cesk Spolecnosti Zool Vestnik 31(2):162-169 REF
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- 11321-69
A DISEASE OF THE HONEY BEE CAUSING BEHAVIORAL CHANGES AND MORTALITY.
J M Kulincevic G R Stairs W C Rothenbuhler
J Invertebrate Pathol 14(1):13-17 REF
421 J826
Apis mellifera, Bacterial diseases (insects), Insect behavior, Insect diseases, Mortality.
- 11322-69
FACTORS INFLUENCING THE DEVELOPMENT OF A POLYHEDRAL CYTOPLASMIC INTESTINAL VIRUS IN MAMESTRA BRASSICAE L. (LEPIDOPTERA). (FR)
E Kurstak
Acad Sci Compt Rend Ser D Sci Nat 264(3, 1ST SEMESTER):507-510 REF
16 Jan 1967 505 P21
Development, Insect diseases, Lymantriidae, Polyhedroses, Virus diseases (insects).
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P A Kurup S Leelamma P L Vijayammal N R Vijayalekshmi
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Chitin, Cuticle, Insect biochemistry, Polysaccharides, Scorpionida.
- 11324-69
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A M Ladduwahetty
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Dermestes maculatus, Dermestidae, Insect physiology, Nervous system, Oviposition, Secretions.
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Acad Sci Compt Rend Ser D Sci Nat 264(5, 1ST SEMESTER):767-770
30 Jan 1967 505 P21
Bombyx mori, Electrophoresis, Hemolymph, Insect biochemistry, Porthetria dispar, Proteins.
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IN VITRO CULTURE OF THE NYMPHAL OVARY OF TENEBRIO MOLITOR (COLEOPTERA) IN THE PRESENCE OF ECDYSONE. (FR)
A M Laverdure
Acad Sci Compt Rend Ser D Sci Nat 269(1, 2ND SEMESTER):82-85
07 Jul 1969 505 P21
Ecdysone, Ovaries, Tenebrio molitor, Tissue culture.
- 11328-69
EFFECTS OF ALLATECTOMY ON THE IMAGINAL DEVELOPMENT OF THE FEMALE GENITAL TRACT IN LOCUSTA MIGRATORIA MIGRATORIOIDES (INSECTA, ORTHOPTERA). (FR)
S Laverjat
Acad Sci Compt Rend Ser D Sci Nat 268(16, 1ST SEMESTER):2109-2112 REF
21 Apr 1969 505 P21
Corpora allata, Insect morphology, Insect physiology, Larvae, Locusta migratoria migratorioides, Reproductive organs.
- 11329-69
VARIATIONS OF PH AND OSMOTIC PRESSURE OF THE HEMOLYMPH IN GALLERIA MELLONELLA L. (FR)
P Laviolette G Mestres
Acad Sci Compt Rend Ser D Sci Nat 265(14, 2ND SEMESTER):979-982
02 Oct 1967 505 P21

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Galleria mellonella, Hemolymph, Hydrogen-ion concentration, Insect biochemistry, Metamorphosis, Osmotic pressure.

11330-69

THE SENSORY EQUIPMENT OF THE FIRST-STAGE LOCUSTA MIGRATORIA L. LARVAE MANDIBLES. (FR)

J R Le Berre A Louveau

Acad Sci Compt Rend Ser D Sci Nat 268(24, 1ST SEMESTER):2907-2910

16 Jun 1969 505 P21

Insect morphology, Larvae, Locusta migratoria, Mouth parts, Nervous system.

11331-69

A STUDY OF THE OXIDASES IN THE XILOPHAGOUS INSECT, IPS SEXDENTATUS AND IN ITS MICROBIAL FLORA. (FR)

A Le Fay J E Courtois A Thuillier C Chararas S Lambin

Acad Sci Compt Rend Ser D Sci Nat 268(24, 1ST SEMESTER):2968-2970

16 Jun 1969 505 P21

Insect biochemistry, Ips sexdentatus, Microorganisms, Oxidases, Symbiosis.

11332-69

JUVENILE HORMONE AND THE FORMATION OF WARRIORS IN THE YELLOW NECKED TERMITE, CALOTERMES FLAVICOLLIS FABR.. (FR)

D Lebrun

Acad Sci Compt Rend Ser D Sci Nat 265(14, 2ND SEMESTER):996-997

02 Oct 1967 505 P21

Corpora allata, Isoptera, Juvenile hormone, Periplaneta americana, Social insects, Tissue transplants.

11333-69

OVERWINTERING PHYTOSEIID MITES IN CENTRAL UTAH APPLE ORCHARDS.

J W Leatham C D Jorgensen

Great Basin Natur 29(2):96-104 REF

31 Jul 1969 410 G79

Apples, Insect biology, Mites, Orchards, Phytoseiidae.

11334-69

SPECIFIC ACTIVITY INCREASE OF A BALBIANI RING BY MG2 PLUS IN ISOLATED NUCLEI OF CHIRONOMUS. (GE)

M Lezzi

Chromosoma 21(1):109-122 REF

02 Mar 1967 442.8 C46

Cell nucleus, Chironomus tentans, Chironomus thummi, Insect biochemistry, Ions, Magnesium, Ribonucleic acid, Salivary glands (insects). English abstract.

11335-69

POPULATION DIFFERENCES IN TANYTARUS GRACILENTUS (HOLMGR.) (DIPT., CHIRONOMIDAE).

B Lindeberg

Ann Zool Fenn 5(1):88-91 MAP REF

1968 410 AN712

Chironomidae, Environment, Population, Tanytarus gracilentus, Zoogeography.

11336-69

A COCCIDIAL PATHOGEN OF THE DERMESTID TROGODERMA PARABILE. S R Loschiavo

J Invertebrate Pathol 14(1):89-92 REF

Jul 1969 421 J826

Coccidiosis, Insect diseases, Insect eggs, Larvae, Protozoa, Pupae, Trogoderma parabile.

11337-69

ATTRACTION OF THE NANTUCKET PINE TIP MOTH, RHYACIONIA FRUSTRANA, TO INCANDESCENT LIGHT AND BLACKLIGHT, AND TO VIRGIN FEMALES.

C Manley M H Farrier

Entomol Soc Amer Ann 62(2):443

Mar 1969 420 EN82

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Insect behavior, Light, Rhyacionia frustrana, Sex behavior, Time.

11338-69

EFFECT OF FERTILIZERS ON THE REPRODUCTION OF TETRANYCHUS TELARIUS (L.), MYZUS PERSICAE (SULZ.) AND ACYRTHOSIPHON PISUM HARRIS.

M Markkula K Tiittanen

Ann Agr Fenn 8(1):9-14 REF

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Acyrtosiphon pisum, Fertility, Fertilizers, Myzus persicae, Nitrogen, Phosphorus, Potassium, Tetranychus telarius.

11339-69

A CANDIDIASIS IN LARVAE OF THE DOUGLAS-FIR TUSSOCK MOTH, HEMEROCAMPA PSEUDOTSUGATA.

M E Martignoni P J Iwai L J Wickerham

J Invertebrate Pathol 14(1):108-110

Jul 1969 421 J826

Entomogenous fungi, Hemerocampa pseudotsugata, Insect diseases, Larvae, Moniliasis.

11340-69

LIPID COMPOSITION OF FAT BODY AND ITS CONTRIBUTION TO THE MATURING OOCYTES IN PYRRHOCORIS APTERUS.

J S Martin

J Insect Physiol 15(6):1025-1045 REF

Jun 1969 421 J825

Fat body, Insect biochemistry, Insect physiology, Lipids, Oogenesis, Pyrrhocoris apterus.

11341-69

THE CHEMICAL BASIS FOR THE ATTINE ANT-FUNGUS SYMBIOSIS. ABSENCE OF ANTIBIOTICS.

M M Martin J G MacConnell G R Gale

Entomol Soc Amer Ann 62(2):386-388 REF

Mar 1969 420 EN82

Antibiotics, Atta, Chemical analysis, Fungi, Symbiosis.

11342-69

EFFECTS OF MAGNESIUM AND CALCIUM IONS ON THE ADENOSINETRIPHOSPHATASE ACTIVITY OF INSECT ACTOMYOSIN AT LOW IONIC STRENGTH.

K Maruyama S R Allen

Compar Biochem Physiol 21(3):713-718

Jun 1967 444.8 C73

Actomyosins, Adenosine triphosphatase, Calcium, Insect biochemistry, Ions, Lethocerus maximus, Magnesium.

11343-69

MODIFICATION OF ELECTRIC ACTIVITY OF THE DENTOCEREBRON BY TACTILE STIMULATIONS OF ANTENNA IN THE ANT CAMPONOTUS ZIGNIPERDA LATR.. (FR)

C Masson G Corbiere F Clarac

Paris Soc Biol Compt Rend 163(2):455-459

16 Jul 1969 442.9 P21

Antennae, Brain, Camponotus, Electrophysiology, Mechanoreceptors.

11344-69

HAMPEA SP., HOST OF THE BOLL WEEVIL. I. LABORATORY PREFERENCE STUDIES.

F G Maxwell D D Hardee W L Parrott J N

Jenkins M J Lukefahr

Entomol Soc Amer Ann 62(2):315-318

Mar 1969 420 EN82

Anthonomus grandis, Attractants, Cotton, Food habits.

11345-69

CIRCADIAN RHYTHMS IN FEMALE ANTS, AND LOSS AFTER MATING FLIGHT.

E S McCluskey

Compar Biochem Physiol 23(2):665-677 REF

Nov 1967 444.8 C73

Formicidae, Insect behavior, Insect flight, Photoperiodism, Sex behavior, Veromessor.

11346-69

THE PHOTORESPONSE TO SKYSHINE OF THE TWO-SPOTTED SPIDER MITE, TETRANYCHUS URTICAE K. (ACARINA: TETRANYCHIDAE).

W D McEnroe

Acarologia 11(2):281-283

Jul 1969 434.8 AC1

Insect physiology, Phototropism, Tetranychidae.

11347-69

SUCCESSFUL LABORATORY MATING OF APANTELES CONGREGATUS, A PARASITE OF THE TOBACCO HORNWORM, MANDUCA SEXTA.

M W McFadden

Entomol Soc Amer Ann 62(2):342-344

Mar 1969 420 EN82

Apanteles congregatus, Insect rearing, Manduca sexta, Sex behavior.

11348-69

THE APPEARANCE OF RESISTANCE IN THE LARVA OF THE COTTON ROOTBORER WEEVIL TO THE ACTION OF CHLORINATED HYDROCARBONS UNDER LABORATORY CONDITIONS. (POR)

E J R Mello

Biologico 34(12):257-261

Dec 1968 442.8 B529

Aldrin, Carbamates, Carbaryl, Chlordane, Chlorinated hydrocarbons, Curculionidae, Dieldrin, DDT, Insecticide resistant insects, Insecticides, Larvae, Organophosphorus compounds, Parathion.

11349-69

OVARIAN FUNCTION AND OVIPOSITION IN VIRGIN FEMALES AND FERTILIZED FEMALES OF DROSOPHILA MELANOGASTER WHICH HAVE BEEN SUBMITTED TO AN EXCLUSIVELY GLUCOSIDE DIET. (FR)

J Merle J David

Acad Sci Compt Rend Ser D Sci Nat 264(16, 1ST SEMESTER):2028-2030

17 Apr 1967 505 P21

Drosophila melanogaster, Glycosides, Insect diets, Insect nutrition, Insect reproduction, Ovaries, Ovation.

11350-69

IMMATURE STAGES OF A CHALCIDOID PARASITE TENDED BY ALLODAPINE BEES. (HYMENOPTERA: PERILAMPIDAE AND ANTHOPHORIDAE).

C D Michener

Kans Entomol Soc J 42(3):247-250

Jul 1969 420 K13

Anthophorinae, Insect biology, Larvae, Parasitic insects, Perilampidae.

11351-69

RESISTANCE TO INSECTICIDES OF THREE STRAINS OF MUSCA DOMESTICA L. FROM BRISBANE, QUEENSLAND.

L A Millar G H S Hooper

Entomol Soc Australia (nsw) J 8(1):113-115 REF

30 Jun 1969 423.92 EN84

Chlorinated hydrocarbons, Diazinon, Dieldrin, DDT, Insecticide resistant insects, Insecticides, Lindane, Malathion, Musca domestica.

11352-69

II THERMISTOR THERMOMETER FOR PHYSIOLOGICAL PREPARATIONS.

T Miller

Entomol Soc Amer Ann 62(2):443-444

Mar 1969 420 EN82

Dorsal vessel, Methodology, Periplaneta americana, Temperature, Thermal analysis.

11353-69

THE COCKROACH HEART AS A BIOASSAY ORGAN.

T Miller R L Metcalf

Entomol Exp Appl 11(4):455-463 REF

1968 421 EN895

- Biological assay, Dorsal vessel, Insect physiology, Methodology, Nervous system, *Periplaneta americana*.
- 11354-69**
ACOUSTICAL COMMUNICATION BY *LIPARA LUCENS* (DIPTERA, CHLOROPIDAE).
J H Mook C G Bruggemann
Entomol Exp Appl 11(4):397-402
1968 421 EN895
Chloropidae, Insect behavior, *Lipara lucens*, Sound waves, Vibration.
- 11355-69**
HABITAT SELECTION OF LABORATORY POPULATIONS OF *TRIBOLIUM*.
M T Morgan
Entomol News (philadelphia) 80(8):207-224 (CONT.)
Aug 1969 421 EN88
Habitats, Insect behavior, Insect physiology, Insect rearing, Temperature, *Tribolium castaneum*, *Tribolium confusum*.
- 11356-69**
OBSERVATIONS AND RECORDS FOR SOME BRITISH THYSANOPTERA. XI THIRIPIDAE, BELOTHRIPS ACUMINATUS HALIDAY.
G D Morison
Entomologist (london) 102(1274):165-172 REF
Jul 1969 421 EN8
Insect biology, Thripidae, Thysanoptera.
- 11357-69**
A SIMPLE RAPID METHOD FOR THE MULTIPLE ASSAY OF TRYPTOPHAN PYRROLASE IN *DROSOPHILA*.
W W Morrison W J Frajola
Ohio J Sci 68(6):285-290
Nov 1968 410 OH3
Chemical analysis, *Drosophila*, Enzymes, Insect biochemistry, Pyrrole, Tryptophan.
- 11358-69**
LARVAL AGGREGATION FORMATION AND POPULATION DENSITY INTERRELATIONS IN *Aedes taeniorhynchus*, THEIR EFFECTS ON PUPAL ECDYSIS AND ADULT CHARACTERISTICS AT EMERGENCE.
J K Nayar D M Sauerman
Entomol Exp Appl 11(4):423-442 REF
1968 421 EN895
Aedes taeniorhynchus, Emergence, Insect morphology, Insect physiology, Larvae, Molting (insects), Population.
- 11359-69**
SYMBIOTIC INTERRELATIONSHIPS BETWEEN MICROBES AND *AMBROSIA BEETLES*. III. ERGOSTEROL AS THE SOURCE OF STEROL TO THE INSECT.
D M Norris J M Baker H M Chu
Entomol Soc Amer Ann 62(2):413-414
Mar 1969 420 EN82
Ergosterol, Microorganisms, Scolytidae, Sterols, Symbiosis, *Xyleborus ferrugineus*.
- 11360-69**
LABORATORY EXPERIMENTS ON THE SOUND OF THE WING BEATS OF *Culex pipiens linnaeus* DURING DIAPAUSE. (GE)
D Novak
Beitr Entomol 17(5-8):637-638
1967 421 B392
Insect flight, Insect physiology, Sound waves, Wings (insects). English and Russian abstracts.
- 11361-69**
EVIDENCE OF SEX ATTRACTANT IN FEMALE *DYSDERCUS CINGULATUS* FABR.
Z Osmani M B Naidu
Indian J Exp Biol 5(1):51
Jan 1967 442.8 IN2
Dysdercus cingulatus, Insect behavior, Pheromones, Sense organs, Sex attractants.
- 11362-69**
INVESTIGATIONS INTO THE POPULATION DYNAMICS OF PARASITES AND HYPERPARASITES OF *Brevicoryne brassicae* (L.) (HOMOPTERA, APHIDIDAE). (GE)
D Paetzold G Vater
Acta Ent Bohemoslov 64(2):83-90
1967 420 C33
Aphididac, Aphidiinae, *Brevicoryne brassicae*, Insect ecology, Parasitic insects, Population. Czech abstract.
- 11363-69**
COMPARATIVE NOTES ON THE DISTRIBUTION, ECOLOGY AND BEHAVIOUR OF SOME DAMSELFLIES (ODONATA: COENAGRIIDAE).
M J Parr
Entomologist (london) 102(1274):151-161 REF
Jul 1969 421 EN8
Insect behavior, Insect ecology, Odonata, Zoogeography.
- 11364-69**
ABSORPTION AND METABOLISM OF A 10 PER CENT GLUCOSE SOLUTION BY MOSQUITOES *Culex pipiens molestus* FORSK. (CZ)
J Paulovova S Paulov
Biologia (bratislava) 22(1):58-63
1967 442.8 B5265
Absorption (biological), *Culex pipiens molestus*, German, Insect metabolism, Insect physiology. German and Russian abstracts.
- 11365-69**
A METHOD FOR DETERMINING THE DOSAGE-MORTALITY CURVE OF MALATHION AGAINST THE PEA APHID, *ACyrthosiphon pisum* (HARRIS) (HOMOPTERA: APHIDIDAE).
W D Pearson
Entomol Soc Brit Columbia Proc 66:3-9 REF
01 Aug 1969 420 B77
Acyrthosiphon pisum, Aphididae, Dosage, Insect physiology, Insecticides, Malathion, Mortality, Organophosphorus compounds, Statistical analysis.
- 11366-69**
ARTHROPOD PREPATORS OF IMMATURE DIPTERA DEVELOPING IN POULTRY DROPPINGS IN NORTHERN CALIFORNIA. PART I. DETERMINATION, SEASONAL ABUNDANCE AND NATURAL COHABITATION WITH PREY.
J H Peck J R Anderson
J Med Entomol 6(2):163-167 REF
May 1969 421 J828
Diptera, Insect identification, *Musca domestica*, Parasitism, Poultry, Surveys.
- 11367-69**
PENETRATION OF KEYSTONE VIRUS IN ARTIFICIALLY INFECTED FEMALE *Aedes infirmatus* (DYAR AND KNAB).
R E Penny D J Taylor
J Med Entomol 6(1):81-82
30 Jan 1969 421 J828
Aedes infirmatus, Arboviruses, Insect diseases, Insect physiology, Medical entomology.
- 11368-69**
SENSITIVITY OF *Sitophilus zeamais* MOTS (O RYZEA L.) TO IONIZING RADIATIONS AT DIFFERENT STAGES OF ITS DEVELOPMENT. RADIOGRAPHICAL STUDY OF THE ENDOGENOUS STAGES AND ACTOGRAPHICAL REGISTRATION. (FR)
P Pesson G K Girish
Ann Epiphyt 19(3):513-531 REF
1968 464.9 F84AN
Insect physiology, Ionizing radiation, Radiography, *Sitophilus zeamais*, Sound waves. English abstract.
- 11369-69**
A COELOMOMYCES INFECTION OF *Aedes australis* IN NEW ZEALAND.
J S Pillai
J Invertebrate Pathol 14(1):93-95
Jul 1969 421 J826
Aedes, Coelomomyces, Entomogenous fungi, Insect diseases.
- 11370-69**
LIFE HISTORY AND BIOLOGY OF CALOGLYPHUS ANOMALUS NESBITT (ACARINA: ACARIDAE).
P R P Pillai P W Winston
Acarologia 11(2):295-303 REF
Jul 1969 434.8 AC1
Acaridae, Insect behavior, Insect biology, Life cycle, Mites.
- 11371-69**
A SIMPLE TECHNIQUE FOR HAND-PAIRING LIMENITIS BUTTERFLIES (NYMPHALIDAE).
A P Platt
Lepidopterists Soc J 23(2):109-112
29 May 1969 421 L554
Insect rearing, Methodology, Nymphalidae, Sex behavior.
- 11372-69**
PROTEIN SYNTHESIS AND NUCLEIC ACID METABOLISM IN THE FAT BODY OF THE LARVA OF THE BLOWFLY, *Calliphora erythrocephala*.
G M Price
J Insect Physiol 15(6):931-944 REF
Jun 1969 421 J825
Calliphora vicina, Fat body, Insect biochemistry, Insect metabolism, Larvae, Nucleic acids, Proteins, Synthesis.
- 11373-69**
VISUAL RESPONSES OF APPLE MAGGOT FLIES, *Rhagoletis pomonella* (DIPTERA: TEPHRITIDAE): ORCHARD STUDIES.
R J Prokopy
Entomol Exp Appl 11(4):403-422 REF
1968 421 EN895
Color, Field studies, Insect behavior, *Rhagoletis pomonella*, Tephritidae, Vision.
- 11374-69**
SOME REGULATORY MECHANISM IN POPULATIONS OF *TRIBOLIUM CONFUSUM* DUVAL AND *TRIBOLIUM CASTANEUM* HERBST.
T Prus
Ekol Pol Ser A (SER A) 16(16):335-374 REF
1968 512 W263
Fertility, Insect eggs, Insect populations, Predaceous insects, *Tribolium castaneum*, *Tribolium confusum*. Polish summary.
- 11375-69**
THE APPLICABILITY OF SOME POPULATION GROWTH MODELS TO A SINGLE-SPECIES LABORATORY POPULATION.
J E Rabinovich
Entomol Soc Amer Ann 62(2):437-442 REF
Mar 1969 420 EN82
Insect rearing, *Nasonia vitripennis*, Population, Statistical analysis.
- 11376-69**
A NOTE ON *Leptomastix nigrocoxalis* COMP. AS A PARASITE OF *Centrocoocus insolitus* GREEN.
R R Rawat B N Modi
Mysore J Agr Sci 2(3):239-242
1968 S19.M9
Biological control (insects), Coccidae, Encyrtidae, Parasitism, Predaceous insects.
- 11377-69**
ON THE NEST ARCHITECTURE OF *Megachile (Chalicodoma) parietina* FOURCROY (HYM., APIDAE). (GE)
O Rebmann
Entomol Z 79(12):138-139
16 Jun 1969 421 EN85
Apidae, Insect behavior, Insect nests.
- 11378-69**
POPULATION INCREASE OF TWO SPECIES OF *Pseudopityophthorus* IN OAK BRANCHES.

C O Rexrode

Entomol Soc Amer Ann 62(2):448-449

Mar 1969 420 EN82

Population, Pseudopityophthorus, Quercus, Scolytidae.

11379-69

TOXINS FROM THE ENTOMOGENOUS FUNGUS METARRHIZIUM ANISOPLIAE: ISOLATION OF DESTRIXINS FROM SUBMERGED CULTURES.

D W Roberts

J Invertebrate Pathol 14(1):82-88

Jun 1969 421 J826

Entomogenous fungi, Extraction, Galleria mellonella, Metarrhizium anisopliae, Proteins, Toxicology, Toxins.

11380-69

AUTOGENY IN THE DEERFLY, CHRYSOPS FULIGINOSUS (DIPTERA: TABANIDAE).

E G Rockel

J Med Entomol 6(2):140-142

May 1969 421 J828

Blood, Chrysops, Eggs, Insect ecology, Insect physiology, Nectar.

11381-69

THE SUSCEPTIBILITY TO INSECTICIDES OF CYDIA POMONELLA (LINNAEUS) (LEPIDOPTERA: TORTRICIDAE) FROM QUEENSLAND.

H A Rose G H S Hooper

Entomol Soc Australia (nsw) J 8(1):79-86 REF

30 Jun 1969 423.92 EN84

Azinphosmethyl, Biological assay, Carbaryl, Chemical control (insects), Chlorinated hydrocarbons, DDT, Insecticide application, Insecticide resistant insects, Insecticides, Laspeyresia pomonella, Organophosphorus compounds.

Populations of *Cydia pomonella* (Linnaeus) from the granitic belt area of south-east Queensland were tested to determine their susceptibility to DDT, azinphos-methyl and carbaryl. Resistance to DDT in one strain was demonstrated by the topical application test method. By means of a continuous-exposure toxicological test, which is described, no evidence of resistance to azinphos-methyl or carbaryl was found in any of the populations tested.

11382-69

SCORPION COLLECTING.

F E Russell

Toxicon 6(4):307-308

May 1969 391.8 T66

Cuticle, Insect collecting equipment, Scorpionida, Ultraviolet rays.

11383-69

RESPONSE OF ISOLATED PUPAL ABDOMENS OF SILKWORMS, BOMBYX MORI L., TO INJECTED PONASTERONE A (LEPIDOPTERA: BOMBYCIDAE).

H Sakurai K Hasegawa

Appl Entomol Zool 4(2):59-65 REF

Jun 1969 SB599.A6

Apidac, Bombyx mori, Development, Insect physiology, Plant hormones, Pupae.

11384-69

RESULTS OF ORGANOTYPIC CULTURES OF THE CEREBRAL GANGLION AND THE SUBESOPHAGIAL GANGLION OF AESCIINA CYANEA MULL (INSECTA, ODONATA). SURVIVAL OF THE ORGANS AND DEVELOPMENT OF THE NEUROSECRETORY ELEMENTS. (FR)

F Schaller J Mcunier

Acad Sci Compt Rend Ser D Sci Nat 264(11, 1ST SEMESTER):1441-1444

13 Mar 1967 505 P21

Culture media, Ganglion cells, Insect physiology, Nervous system, Odonata, Secretions, Tissue culture.

11385-69

HAEMOLYMPH PROTEINS AND WATER UPTAKE IN FEMALE LEUCOPHAEA MADERAE DURING THE SEXUAL CYCLE.

R Schuurc R Leuthold

J Insect Physiol 15(6):1067-1077 REF

Jun 1969 421 J825

Hemolymph, Insect biochemistry, Leucophaea maderae, Proteins, Reproduction, Water.

11386-69

RELATIVE EFFECTIVENESS OF CHEMICAL REPELLENTS AGAINST PHLEBOTOMUS PAPATASI (SCOPOLI).

M L Schmidt J R Schmidt

J Med Entomol 6(1):79-80 REF

30 Jan 1969 421 J828

Chemical control (insects), Insect repellents, Medical entomology, Phlebotomus.

The chemicals tested were: Chloro-diethylbenzamide, ethoxy-diethylbenzamide, diethyltoluamide, butyryl tetrahydroquinoline, Indalone, dimethyl carbate, ethyl hexandiol, and dimethyl phthalate.

11387-69

INSECTICIDE SUSCEPTIBILITIES OF PHLEBOTOMUS PAPATASI (SCOPOLI) FROM EGYPT AND THE SUDAN.

M L Schmidt J R Schmidt

J Med Entomol 6(1):87-90 REF

30 Jan 1969 421 J828

Chlorinated hydrocarbons, Dieldrin, DDT, Insect physiology, Insecticides, Medical entomology, Phlebotomus.

11388-69

COMPENSATION OF THE BACK DRIFT OF CADDIS FLY LARVAE (INSECTA, TRICHOPTERA). (GE)

H Schumacher

Naturwissenschaften 56(7):378

Jul 1969 474 N213

Aquatic insects, Hydropsyche, Insect behavior, Insect ecology, Larvae, Marine biology, Trichoptera.

11389-69

THE LIFE HISTORY AND HABITS OF CHLOSYNE FULVIA (NYMPHALIDAE).

J A Scott

Lepidopterists Soc J 22(4):237-240

1968 421 L554

Insect behavior, Insect nutrition, Metamorphosis, Nymphalidae.

11390-69

THE DISTRIBUTION OF TWO SPECIES OF CENOCORIXA IN INLAND SALINE LAKES OF BRITISH COLUMBIA.

G G E Scudder

Entomol Soc Brit Columbia Proc 66:32-40 MAP

REF

01 Aug 1969 420 B77

Corixidae, Insect ecology, Saline water, Zoogeography.

11391-69

STUDIES ON THE BITING HABITS OF CULICOIDES IMPUNCTATUS GOETGHEBUER, C. OBSOLETUS (MEIGEN) AND C. PUNCTATUS (MEIGEN) (DIPTERA: CERATOPOGONIDAE) IN SOUTHERN ENGLAND.

M W Service

Roy Entomol Soc London Proc Ser A Gen Entomol 44(1-3):1-10 REF

22 Apr 1969 420 L84PA

Ceratopogonidae, Culicoides, Culicoides obsoletus, Insect behavior.

11392-69

RESPIRATORY RATES OF GREEN AND BLACK LARVAE OF THE ARMYWORM, LEUCANIA SEPARATA (LEPIDOPTERA: NOCTUIDAE).

A Shibazaki Y Ito

Appl Entomol Zool 4(2):100-101

Jun 1969 SB599.A6

Insect physiology, Larvae, Leucania separata, Noctuidae, Respiration.

11393-69

INTERNAL PERFUSION OF CRAYFISH GIANT AXONS: ACTION OF TANNIC ACID, DDT, AND TEA.

P G Shrager R I Macey A Strickholm

J Cell Compar Physiol 74(1):77-90 REF

Aug 1969 444.8 J822

Arthropoda, DDT, Ions, Nervous system, Physiology, Tannins, Tea.

11394-69

THE INFLUENCE OF TEMPERATURE ON THE DEVELOPMENT OF ARMYWORM, LEUCANIA SEPARATA WALKER (LEPIDOPTERA: NOCTUIDAE).

N Sinchaisri K Sogawa

Appl Entomol Zool 4(2):102-103

Jun 1969 SB599.A6

Development, Insect physiology, Leucania separata, Noctuidae, Temperature.

11395-69

STUDIES ON THE ANATOMY OF CYCLOPELTA SICCIFOLIO (WESTW.) (HEMIPTERA, PENTATOMIDAE, DINDORINAE).

P B Sinha

Rev Brasil Biol 29(1):135-139

Apr 1969 442.8 R326

Insect morphology, Pentatomidae.

11396-69

STUDY OF FACTORS AFFECTING THE FOOD UPTAKE BY THE NYMPHS OF LOCUSTA MIGRATORIA MIGRATORIOIDES (ORTHOPTERA, ACRIDIDAE). II. INTERNAL FACTORS. (FR)

Y Sinoir

Entomol Exp Appl 11(4):443-449 REF

1968 421 EN895

Food habits, Insect nutrition, Insect physiology, Locusta migratoria migratorioides, Nymphs. English abstract.

11397-69

A GUIDE FOR THE APPLICATION OF DARK FIELD MICROSCOPY FOR ROUTINE DIAGNOSIS IN INSECT PATHOLOGY.

W A Smirnoff

Natur Can 96(2,MAR-APR):261-275

Apr 1969 410 N216

Diagnosis, Insect diseases, Methodology, Microscopy.

11398-69

FURTHER DATA ON THE OVIPOSITION BY THE GENUS STYLOGASTER MACQUART (DIPTERA: CONOPIDAE, STYLOGASTERINAE) UPON ADULT CALYPTRATE DIPTERA ASSOCIATED WITH ANTS AND ANIMAL DUNG.

K G V Smith

Roy Entomol Soc London Proc Ser A Gen Entomol 44(1-3):35-37

22 Apr 1969 420 L84PA

Calliphoridae, Insect behavior, Oviposition, Parasitic insects, Stylogaster.

11399-69

A SIMPLE METHOD FOR REARING DROSOPHILA MELANOGASTER MG.

M Soehardjan

Entomol Ber 29(2):40

01 Feb 1969 420 N38B

Cassava, Drosophila melanogaster, Insect nutrition, Insect rearing.

11400-69

THE INFLUENCE OF GRAINS OF CORN AS STIMULATION FOR OVIPOSITION IN SITOTROGA CEREALELLA OLIV. (LEP., GELECHIIDAE). (FR)

J Stockel

Acad Sci Compt Rend Ser D Sci Nat 268(24,1ST SEMESTER):2941-2943

16 Jun 1969 505 P21

Corn, Insect behavior, Oviposition, Sitotroga cerealella.

11401-69

FURTHER EXPERIENCE OBTAINED IN STUDIES ON DISPERSAL FLIGHTS OF MELIGETHES AENEUS F., MARKED WITH P32 (COLEOPTERA).

L Taimr J Sedivy E Bergmannova I Hanker

- Acta Ent Bohemoslov* 64(5):325-332
1967 420 C33
Insect flight, Meligethes, Phosphorus isotopes, Population, Radioactive tracers.
- 11402-69**
STUDIES ON ACID PHOSPHATASE IN THE SILK GLAND OF THE SILKWORM. I. ELECTROPHORETIC ANALYSES OF ACID PHOSPHATASE IN THE SILK GLAND OF SAMIA CYNTHIA RICINI.
S Takahashi
Annot Zool Jap 42(1):1-7 REF
Mar 1969 410 AN79
Acid phosphatase, Electrophoresis, Glands (insects), Insect biochemistry, Larvae, Samia cynthia ricini.
- 11403-69**
X-RAY DIFFRACTION STUDIES ON WAXY COVERING OF SCALE INSECTS (HOMOPTERA: COCCOIDEA).
Y Tamaki S Kawai
Appl Entomol Zool 4(2):79-85
Jun 1969 SB599.A6
Coccoidea, Cuticle, Waxes, X-ray diffraction.
- 11404-69**
BLANKAARTIA ACUSCUTELLARIS (ACARINA, TROMBICULIDAE) AND ITS EXTENSION TO THE AFRICAN CONTINENT. (FR)
R Taufflieb
Acarologia 11(2):284-289 REF
Jul 1969 434.8 AC1
Birds, Insect dissemination, Parasitic insects, Rodents, Trombiculidae, Zoogeography. English abstract.
- 11405-69**
PHOSPHOLIPID SYNTHESIS DURING FLIGHT MUSCLE DEVELOPMENT IN THE AMERICAN SILKMOTH, HYALOPHORA CERCROPIA.
K K Thomas L I Gilbert
Compar Biochem Physiol 21(2):279-290 REF
May 1967 444.8 C73
Hyalophora cecropia, Insect biochemistry, Insect physiology, Muscles, Phospholipids, Radioisotopes.
- 11406-69**
THE NUMBER AND THE RELATION BETWEEN MEASUREMENTS OF SUCCESSIVE LARVAL INSTARS OF THE RICE MOTH, CORCYRA CEPHALONICA STANTON (GALLERIDAE, LEPIDOPTERA).
S Usman
Mysore J Agr Sci 2(3):182-192 REF
1968 S19.M9
Corcyra cephalonica, Insect physiology, Measurement, Metamorphosis.
- 11407-69**
COMPARATIVE EFFECTIVENESS OF ALIPHATIC KETONES IN ELICITING ALARM BEHAVIOR IN POGONOMYRMEX BARBATUS AND P. COMANCHE.
K W Vick W A Drew E J Eisenbraun D J McGurk
Entomol Soc Amer Ann 62(2):380-381
Mar 1969 420 EN82
Formicidae, Insect behavior, Ketones, Organic compounds, Pheromones, Pogonomyrmex.
- 11408-69**
EXCISION OF GONADS FROM IMMATURE DIATRAEA.
N Virkki D W Walker L Rodriguez
Entomol Soc Amer Ann 62(2):457-458
Mar 1969 420 EN82
Diatraea, Gonads, Larvae, Methodology, Tissue extracts.
- 11409-69**
A CYTOCHEMICAL STUDY ON MEROZOITES OF BABESIA OVIS AND BABESIA BIGEMINA (PIROPLASMIIDA) IN THE HEMOLYMPH OF TICKS. (GE)
G Weber K Friedhoff
Z Parasitenk 32(2):181-190 REF
12 May 1969 442.8 Z33F
Babesia, Biochemistry, Blood, Boophilus decoloratus, Boophilus microplus, Cytology, Ixodidae, Piroplasmiasis. English abstract.
- 11410-69**
STUDIES ON THE MORPHOLOGY OF THE PRINCIPLE SALIVARY GLAND OF MYZUS PERSICAE. (GE)
H L Weidemann
Entomol Exp Appl 11(4):450-454
1968 421 EN895
Cytology, Insect morphology, Myzus persicae, Salivary glands (insects). English abstract.
- 11411-69**
THE PHOSPHORYLASE SYSTEM OF THE SILKMOTH, HYALOPHORA CERCROPIA.
A W Wiens L I Gilbert
Compar Biochem Physiol 21(1):145-159 REF
Apr 1967 444.8 C73
Hyalophora cecropia, Insect biochemistry, Insect metabolism, Metamorphosis, Phosphorylases.
- 11412-69**
INFLUENCE OF TEMPERATURE ON DEVELOPMENT OF THE LESSER MEALWORM, ALPHITOBIVUS DIAPERINUS (COLEOPTERA: TENEBRIONIDAE).
T H Wilson F D Miner
Kans Entomol Soc J 42(3):294-303
Jul 1969 420 K13
Alphitobius diaperinus, Development, Life cycle, Scent glands, Sex behavior, Temperature.
- 11413-69**
PROBLEMS WITH MERCURY VAPOR LIGHT TRAPS. (DU)
T H van Wisselingh
Entomol Ber 29(2):23-26
01 Feb 1969 420 N38B
Insect collecting equipment, Lepidoptera, Light traps, Mercury, Temperature, Weather, Wind. English abstract.
- 11414-69**
MATING BEHAVIOR OF 8 STORED-PRODUCT BEETLES (COLEOPTERA, DERMESTIDAE, TENEBRIONIDAE, CUCUJIDAE, AND CURCULIONIDAE).
D P Wojcik
Fla Entomol 52(3):171-197 REF
Sep 1969 420 F662
Cucujidae, Curculionidae, Dermestidae, Insect behavior, Sex behavior, Stored-product insects, Tenebrionidae.
- 11415-69**
HYMENOPTERAN SYMPHYTA OF TURKEY. (FR)
F Wolf
Gembloux Inst Agron Bull Etat Ser Extraordinaire 3(3):562-565
1968 105.1 G285
Argidae, Cephidae, Cimbicidae, Surveys, Symphyta, Tenthredinidae.
- 11416-69**
RESEARCH ON THE FOREST ECOSYSTEM. SERIES C. THE GALEOBDOLO OAKS AND MESNIL-EGLEISE WOOD SORREL (FERAGE). CONTRIBUTION NO. 7. HYMENOPTERA COLLECTED IN WATER JARS. (FR)
F Wolf C Ghspar C Verstraeten
Gembloux Inst Agron Bull Etat Ser Extraordinaire 3(3):566-579
1968 105.1 G285
Forests, Hymenoptera, Insect ecology, Surveys.
- 11417-69**
HORMONAL EFFECT ON CULTIVATED INSECT TISSUES. I. EFFECT OF ECDYSTERONE ON CULTIVATED TESTES OF DIAPAUSING RICE STEM BORER LARVAE (LEPIDOPTERA: PYRALIDAE).
S Yagi E Kondo M Fukaya
Appl Entomol Zool 4(2):70-78 REF
Jun 1969 SB599.A6
Ecdysone, Ecdysterone, Insect physiology, Larvae, Pyralidae, Testes, Tissue culture.
- 11418-69**
IMMATURE STAGES OF THE FLESH FLY, PARASARCOPHAGA (THOMSONEA) ARGYROSTOMA (ROBINEAU-DESVOIDY).
J R Yates
Hawaii Entomol Soc Proc 19(3):433-440
Jun 1967 420 H312
Insect biology, Insect morphology, Larvae, Parasarcophaga, Pupae.
- 11419-69**
THE MORPHOLOGY OF THE SCENT GLANDS OF DYSDERCUS INTERMEDIUS DISTANT (HEMIPTERA: PYRRHOCORIDAE) AND A PRELIMINARY ANALYSIS OF THE SCENT GLAND SECRETIONS OF THE FIFTH INSTAR LARVAE.
A Youdeowei D H Calam
Roy Entomol Soc London Proc Ser A Gen Entomol 44(1-3):38-44 REF
22 Apr 1969 420 L84PA
Dysdercus intermedius, Insect morphology, Larvae, Scent glands, Secretion.
- 11420-69**
VIRUS-CELL STUDIES OF TIPULA IRIDESCENT VIRUS IN GALLERIA MELONELLA (L.). I. ELECTRON MICROSCOPY OF INFECTION AND SYNTHESIS OF TIPULA IRIDESCENT VIRUS IN HEMOCYTES.
H B Younghusband P E Lee
Virology 38(2):247-254 REF
Jun 1969 448.8 V81
Blood cells, Electron microscopy, Galleria mellonella, Insect diseases, Larvae, Tipula iridescent virus. English summary.

GENETICS

- 11421-69**
FURTHER EXPERIMENTS WITH SATURNIA PAVONIA L. (LEP., SATURNIIDAE). (DU)
J P C Boot
Entomol Ber 29(3):52-54
01 Mar 1969 420 N38B
Eggs, Insect genetics, Larvae, Mortality, Saturniidae. English abstract.
- 11422-69**
GENETICAL SENSITIVITY OF THE DIFFERENT STAGES OF SPERMATOGENESIS TO METHYLMETHANESULFONATE (MMS) IN DROSOPHILA MELANOGASTER. I. CROSSING-OVER, DELETIONS, FERTILITY. (RUS)
G M Burychenko
Genetika 4(10):77-84 REF
1968 QH431.A1G4
Drosophila melanogaster, Insect genetics, Methyl methanesulfonate, Spermatogenesis. English summary.
- 11423-69**
REVISION OF THE SUBGENUS XENOHEMMA MICHENER (APOIDEA: COLLETIDAE).
E M Exley
Australian J Zool 17(3):535-551
Jul 1969 410 AU73
Colletidae, Insect taxonomy.
- 11424-69**
THE CHROMOSOME NUMBERS OF SIX SPECIES OF FORMICINE ANTS.
A C F Hung
Entomol Soc Amer Ann 62(2):455-456
Mar 1969 420 EN82
Chromosomes, Cytology, Formicidae, Insect genetics.
- 11425-69**
SELECTION FOR MATING SPEED IN DROSOPHILA PAVANI.
S Koref-Santibanez D Brncic M Budnik

ENTOMOLOGY

11426-69

Biologica 40:72-75

Jul 1967 442.8 B5222

Chromosomes, *Drosophila*, Insect behavior, Insect genetics, Insect rearing, Sex behavior, Time.

11426-69

THE SALIVARY GLAND CHROMOSOMES OF *CHIRONOMUS GLOSSITUS* WALKER (DIPTERA: NEMATOCERA).

J Martin

Australian J Zool 17(3):473-486 REF

Jul 1969 410 AU73

Chironomus, Chromosomes, Insect evolution, Insect genetics, Salivary glands.

11427-69

PENTOSE PHOSPHATE PATHWAY ENZYME STUDIES OF THE LZ ALLELE OF *DROSOPHILA MELANOGASTER*.

E E Peebles D R Barnett C P Oliver

J Hered 58(5,SEP-OCT):243-245

Oct 1967 442.8 AM3

Alleles, Chromosomes, *Drosophila melanogaster*, Electrophoresis, Enzymes, Insect biochemistry, Insect genetics, Pentoses, Phosphates.

11428-69

THE EFFECT OF ACTINOMYCIN D PRE-TREATMENT OF *DROSOPHILA MELANOGASTER* FEMALES ON THE FREQUENCY OF DOMINATED LETHALS INDUCED BY X-RAYS ON MATURE SPERMATOZOIDS.

J Proust

Acad Sci Campit Rend Ser D Sci Nat 269(1, 2ND SEMESTER):86-88

07 Jul 1969 505 P21

Actinomycin D, *Drosophila melanogaster*, Insect genetics, Spermatoocytes, X-rays.

11429-69

THE GENETICS OF EAST AFRICAN LEPIDOPTERA-X. DANUS CHRYSIPPUS L. (LEPIDOPTERA, DANAIDEA).

D G Sevastopulo

Entomologist (London) 102(1274):149-150

Jul 1969 421 EN8

Danaidae, Insect genetics, Polymorphism.

11430-69

THE EFFECT OF X-IRRADIATION ON MALE MEIOSIS IN *SCHISTOCERCA GREGARIA* (FORSKAL). II. THE INDUCTION OF CHROMOSOME MUTATIONS.

M Westerman

Chromosoma 24(1):17-36 REF

11 Apr 1968 442.8 C46

Chromosomes, Cytogenetics, Insect genetics, Meiosis, Radiation, *Schistocerca gregaria*, X-rays.

11431-69

CYTOGENETICS OF THE VIATICA GROUP OF MORABINE GRASSHOPPERS. II. KANGROOS ISLAND POPULATIONS.

M J D White K H L Key M Andre J Cheney

Australian J Zool 17(2):313-328 REF

Apr 1969 410 AU73

Acrididae, Cytogenetics, Insect genetics, Population, Zoogeography.

11432-69

AN UNUSUAL CHROMOSOME SYSTEM IN A LEAFHOPPER (HOMOPTERA, AUCHENORRHYNCHA).

M J Whitten

Chromosoma 24(1):37-41

11 Apr 1968 442.8 C46

Chromosomes, Cicadellidae, Cytogenetics, Insect genetics, Meiosis, Sex determination.

MEDICAL ENTOMOLOGY

11433-69

REVIEW OF CLASSICAL MALARIA CONTROL MEASURES. (SP)

G H Bradley

Ofic Sanit Panamer Bol 66(3):187-199 MAP REF

BIBLIOGRAPHY

Mar 1969 449.9 P192B

Anopheles freeborni, Anopheles quadrimaculatus, Chemical control (insects), Chlorinated hydrocarbons, DDT, Insect traps, Insect vectors, Malaria, Medical entomology, Pyrethrum, Zoogeography. English, Portuguese and French summaries.

11434-69

ENVENOMIZATION BY THE SPIDER LYCOSA MIAMI WALLACE.

R H Grothaus L W Teller

J Med Entomol 5(4):500

30 Oct 1968 421 J828

Humans, *Lycosa miami*, Medical entomology, Spider venom.

11435-69

MEDICAL AND VETERINARY ENTOMOLOGY IN THE USSR.

A V Gutsevich V P Derbeneva-Ukhova N K Shipitsyna

Entomol Rev 47(21APR-JUN):175-185 REF

Jun 1968 421 R322AE

Acarina, Diptera, History, Insect control, Insect pests, Insect vectors, Medical entomology, Siphonaptera, Surveys. Russian journal-Entomologicheskoye Obozreniye, p. 298-316.

11436-69

EXPERIMENTAL NECROTIC ARACHNIDISM ON RABBITS CAUSED BY THE BITES OF LOXOSCELES UNICOLOR (ARANEAE: SCYTODIDAE).

B Keh

J Med Entomol 5(4):495-497

30 Oct 1968 421 J828

Loxosceles unicolor, Medical entomology, Rabbits, Scytodidae, Spider venom.

11437-69

PATHOGENICITY OF TRYPANOSOMA RANGELLI FOR RHODNIUS PROLIXUS STAL IN NATURE (HEMIPTERA: REDUVIIDAE) (KINETOPLASTIDA: TRYPANOSOMATIDAE).

C J Marinkelle

J Med Entomol 5(4):497-499

30 Oct 1968 421 J828

Insect vectors, Medical entomology, Parasitism, Reduviidae, *Rhodnius prolixus*, Trypanosomatidae.

11438-69

INCIDENCE OF ARTHROPOD-BORNE ENCEPHALITIC DISEASES IN MEXICO. (SP)

C C Sainz

Ofic Sanit Panamer Bol 66(2):106-111

Feb 1969 449.9 P192B

Arboviruses, Arthropoda, Encephalitis, Human diseases, Insect vectors, Surveys. English, Portuguese and French summaries.

CROP PROTECTION

11439-69

POLYURETHANE COATING: A NEW TECHNIQUE FOR THE PRESERVATION OF DISEASED PLANT MATERIAL.

R M Bebbington M M Burrell

Bull British Mycol Soc 2(2):75

Aug 1968 QK600.B7

Methodology, Plant diseases, Plant protection, Urethans.

11440-69

OZARK RANGE AND WILDLIFE PLANTS.

H S Crawford C L Kucera J H Ehrenreich

U S D A Agr Handb (356):236P

Jan 1969 1 AG84AH

Climate, Plant geography, Plant taxonomy, Ranges, Soil series, Vegetation.

11441-69

PROCEDURES AND MEDIA FOR OBTAINING TISSUE CULTURES OF 12 CONIFER SPECIES.

A E Harvey J L Grasham

Can J Bot 47(4):547-549 REF

Apr 1969 470 C16C

Coniferae, Culture media, Methodology, Plant propagation, Tissues.

11442-69

PRODUCTION OF NEW PHYSIOLOGIC RACES IN *PUCCINIA STRIIFORMIS* (YELLOW RUST) BY HETEROKARYOSIS.

R Little J G Manners

Nature 213(S074):422

28 Jan 1967 472 N21

Grain, Plant genetics, Plant physiology, *Puccinia striiformis*, Stripe rust.

11443-69

INDIAN FIELD CROPS.

D P Patel

Purushattamdas Jivabhai Patel, Vasnabuzarg, India 260P REF

Aug 1966 SB187.14P3

Farm management, Fertilizers, Field crops, Fruit, Herbicides, Labor productivity, Manures, Plant geography, Plant protection.

11444-69

TISSUE CULTURE FROM BULBIL OF *DIOSCOREA SANSIBARENIS*.

A N Rao

Can J Bot 47(4):565-566 REF

Apr 1969 470 C16C

Amino acids, Plant physiology, Tissue culture, Vitamins, Yams.

11445-69

INTERRELATIONSHIP OF ROOT-KNOT NEMATODE LEAF CURL VIRUS IN TOMATO.

G Swarup B K Goswami

Indian J Exp Biol 7(1):64-65

Jan 1969 442.8 IN2

Leaf curl, Meloidogyne incognita, Plant diseases, Plant nematodes, Plant physiology, Tomatoes, Virus diseases (plants).

11446-69

PLANT PATHOLOGY.

J C Walker

McGraw-Hill Book Co., New York, N. Y. 819P REF

1969 SB731.W3

Bacterial diseases (plants), Chemical control (plant diseases), Cultural control (plant diseases), Environment, Fungus diseases (plants), Parasitism, Plant disease resistance, Plant nematodes, Plant physiological diseases, Virus diseases (plants).

DISEASES

11447-69

WOOD ROT OF FRUIT TREES.

Anonymous

Agr Gaz New S Wales 80(4):208-212

Apr 1969 23 N472

Corticium salmonicolor, Cultural control (plant diseases), Cytospora, Dothiorella, Fruit, Polyporus, Polyporus versicolor, Rot, Trees, Wood destroying fungi.

11448-69

PRINCIPAL DISEASES OF TOMATOES, *LICOPERSICON ESCULENTUM*, L. (SP)

V A Arrieta

Fitofila 60(21,OCT-DLC):37-43

Dec 1968 421 F55

Bacterial diseases (plants), Chemical control (plant diseases), Fungus diseases (plants), Sanitation control (pests), Tomatoes.

11449-69

PRINCIPAL DISEASES AFFECTING PINUS RADIATA IN CHILE.

S H Autter

China Plant Protect Bull 15(1):17-18

Feb 1967 464.9 C47

Barley, *Claviceps purpurea*, *Pinus radiata*.

- 11450-69**
VARIATION IN TRICARBOXYLIC ACID CYCLE ENZYMES DURING PATHOGENESIS IN COTTON PLANT.
 R U Bai E R B Shanmugasundaram
Indian J Exp Biol 7(1):40-42 REF
 Jan 1969 442.8 IN2
 Cotton, Enzymes, Fungus diseases (plants), Fusarium, Plant biochemistry, Plant disease resistance, Tricarboxylic acid cycle.
- 11451-69**
LEAF RUST RESISTANCE OF SOME EUROPEAN VARIETIES OF WHEAT.
 P Bartos D J Samborski P L Dyck
Can J Bot 47(4):543-546
 Apr 1969 470 C16C
 Crop varieties, Leaf rust, Plant disease resistance, Plant genetics, Puccinia recondita, Wheat.
- 11452-69**
DEVELOPMENTAL ANATOMY OF A CORALLOID GALL ON IPOMOEA PES-TIGRIDIS LINN.
 K Bedi H Singh
Marcellia 35(1-2,MAR-JUN):65-76
 Jun 1968 421 M33
 Albugo, Fungus diseases (plants), Ipomoea, Plant galls, Plant morphology, Plant physiology.
- 11453-69**
FROND-DROP: AN UNRECORDED DISEASE OF COCONUT OF UNKNOWN ETIOLOGY IN THE BICOL REGION OF THE PHILIPPINES.
 A E Bigornia W C Price E P Rillo
China Plant Protect Bull 15(1):6-9
 Feb 1967 464.9 C47
 Coconuts, Plant diseases, Zoogeography.
- 11454-69**
CITRUS TRISTEZA IN GUYANA.
 S Bisessar
China Plant Protect Bull 16(3):45-48
 Jun 1968 464.9 C47
 Citrus, Host indexing (plants), Tristeza, Virus diseases (plants).
- 11455-69**
FOREST PATHOLOGY.
 D A Burdekin
Great Brit Forest Comm Rep Forest Res 108-111
 1968 99.9 G795RE
 Bacterial canker, Bacterial diseases (plants), Biological control (plant diseases), Chemical control (plant diseases), Fungicides, Fungus diseases (plants), Pesticides, Phytophthora, Temperature, Tree diseases.
- 11456-69**
SOME ASPECTS OF THE SUMMER AND WINTER ECOLOGY OF WHEAT RUST FUNGI.
 J R Burleigh A A Schulze M G Eversmeyer
Plant Dis Rep 53(8):648-651 MAP REF
 Aug 1969 1.9 P69P
 Plant ecology, Puccinia graminis tritici, Puccinia recondita, Rust, Wheat, Winter, Zoogeography.
- 11457-69**
THE ROLE OF SCLEROTIAL RIND IN THE GERMINABILITY OF SCLEROTIA OF SCLEROTIUM ROLFII.
 I Chet
Can J Bot 47(4):593-595
 Apr 1969 470 C16C
 Degradation, Fungus cultures, Inhibitors, Sclerotium rolfsii, Seed germination.
- 11458-69**
A SURVEY OF VIRUSES IN CULTIVATED STRAWBERRIES IN OREGON AND WASHINGTON.
 R H Converse
Plant Dis Rep 53(8):610-614 REF
 Aug 1969 1.9 P69P
 Strawberries, Surveys, Virus diseases (plants).
- 11459-69**
DIMORPHISM IN GALLS CAUSED BY MIKIOLA FAGI HARTIG. (DIPT. CECID.) ON FAGUS SILVATICA L. ANDROCECIDY AND GYNOCCECIDY. (FR)
 R Coutin J Riom
Acad Sci Compt Rend Ser D Sci Nat 265(14, 2ND SEMESTER):975-978 REF
 02 Oct 1967 505 P21
 Fagus sylvatica, Mikiola fagi, Plant galls, Polymorphism, Sex.
- 11460-69**
MODERATE TOLERANCE OF BEAN VARIETIES TO BROWN SPOT BACTERIUM (PSEUDOMONAS SYRINGAE).
 D P Coyne M L Schuster
Plant Dis Rep 53(8):677-680
 Aug 1969 1.9 P69P
 Bacterial diseases (plants), Beans, Brown spot, Plant breeding, Plant disease resistance, Pseudomonas syringae.
- 11461-69**
PROTECTIVE SPRAYS INHIBIT SECONDARY SPREAD OF COMMON BACTERIAL BLIGHT IN SNAP BEANS.
 L E Dickens N Oshima
Plant Dis Rep 53(8):647
 Aug 1969 1.9 P69P
 Agrimycin, Bacterial diseases (plants), Beans, Chemical control (plant diseases), Spraying, Xanthomonas phaseoli.
- 11462-69**
REPORT OF THE 1965 WEST VIRGINIA OAK WILT PROGRAM.
 G R Douglass
 (130):7P
 1965 SB608.O115W4
 Ceratocystis fagacearum, Fungus diseases (plants), Quercus, Reports, Tables (data), Wilt.
- 11463-69**
ECOLOGY OF SLASH PINE STUMPS: FUNGAL COLONIZATION AND INFECTION BY FOMES ANNOSUS.
 C H Driver J H Ginns
Forest Sci 15(1):2-10 REF
 Mar 1969 99.8 F7632
 Borax, Fomes annosus, Peniophora gigantea, Pinus elliotii, Plant ecology, Temperature, Trichoderma, Wood destroying fungi.
- 11464-69**
PESTS AND DISEASES OF THE DATE PALM. PART II. DISEASES.
 H S Elmer J B Carpenter L J Klotz
China Plant Protect Bull 16(6):97-110 REF
 Dec 1968 464.9 C47
 Cultural control (plant diseases), Dates, Fungus diseases (plants), Fusarium oxysporum, Insect pests, Plant disease resistance, Plant diseases, Surveys, Zoogeography.
- 11465-69**
PHYTOPHTHORA ROOT ROT OF ALFALFA IN THE UPPER MIDWEST.
 F I Froshaiser
Plant Dis Rep 53(8):595-597
 Aug 1969 1.9 P69P
 Alfalfa, Fungus diseases (plants), Phytophthora megasperma, Plant diseases, Rot, Soil microorganisms.
- 11466-69**
FORM AND MECHANISM OF TRANSMISSION OF PLANT VIRUSES. TRANSMISSION OF VIRUSES BY FUNGI. (GE)
 W H Fuchs
Berlin Biol Bundesanst Land-forstwirtschaft Mitt (128):39-55 REF
 Jul 1968 410.9 G31M
 Bibliography, Fungi, Necrosis, Olpidium, Plant disease transmission, Polymyxa graminis, Tobacco, Virus diseases (plants).
- 11467-69**
SECONDARY MECHANISMS OF ANTIFUNGAL ACTION OF SUBSTITUTED 8-QUINOLINOLS. II. SUBSTITUTED QUINOLINES.
 H Gershon R Parmegiani M W McNeil Y J Hinds
Boyce Thompson Inst Contrib 24(6,JAN-MAR):149-150
 Mar 1969 451 B69
 Aspergillus niger, Aspergillus oryzae, Chelation, Chemistry, Fungicides, Fungus diseases (plants), Hydrolysis, Myrothecium, Quinolinol, 8-, Trichoderma viride, Trichophyton mentagrophytes.
 A series of substituted quinolines that contained only hydrogen in the 8-position were studied in order to establish whether or not fungicidal activity was due to hydrolysis of the methoxy group or whether chelation was the major mechanism of fungitoxication.
- 11468-69**
INVESTIGATIONS ON MYCOPLASMA-LIKE MICROORGANISMS IN THE JASSID VECTOR AND IN THE PLANTS INFECTED BY YELLOW VIRUSES. (FR)
 J Giannotti C Vago G Devauchelle G Marchoux
Entomol Exp Appl 11(4):470-474 REF
 1968 421 EN895
 Cicadellidae, Clover, Electron microscopy, Insect vectors, Mycoplasma, Phyllody, Plant diseases, Stolbur.
- 11469-69**
AN EXAMINATION OF FUNGI ASSOCIATED WITH GROUNDNUT PODS.
 G A Gilman
Trop Sci 11(1):38-48 REF
 1969 26 T756
 Aspergillus flavus, Fungus diseases (plants), Peanuts, Surveys.
- 11470-69**
BACTERIAL WILT IN MALAYA.
 D A Griffiths W L Lim
Plant Dis Rep 53(8):597-600
 Aug 1969 1.9 P69P
 Bacterial wilt, Peanuts, Plant diseases, Plant physiology, Pseudomonas solanacearum.
- 11471-69**
CROP DISEASE REVIEW--COTTON.
 A D Hanna
Brit Nest Articles News Sum Sect A Insect Contr 15(2):186-193 MAP
 Jun 1969 423.92 G798
 Bacterial diseases (plants), Chemical control (plant diseases), Cotton, Fungus diseases (plants), Plant diseases, Plant geography, Reviews, Virus diseases (plants).
- 11472-69**
MICROBIOLOGICAL PROPERTIES OF CAPTAN. (GE)
 J C Hansen
Z Lebensmittel-untersuchung-forsch 139(6):378-388 REF
 02 Jun 1969 384 Z39
 Bacillus licheniformis, Captan, Chlorinated hydrocarbons, Fungicides, Hydrogen-ion concentration, Microbiology, Spectrophotometry.
- 11473-69**
VARIETAL DIFFERENCES IN OAT BLUE DWARF VIRUS RESISTANCE AND SYMPTOM EXPRESSION.
 A S Heagle M B Moore
Plant Dis Rep 53(8):664-666
 Aug 1969 1.9 P69P
 Blue dwarf (oats), Oats, Plant disease resistance, Plant diseases, Plant morphology, Virus diseases (plants).
- 11474-69**
A TECHNIQUE FOR RAPID STANDARDIZATION OF CONIDIAL SUSPENSIONS OF CERATOCYSTIS ULMI.
 W K Hock B R Roberts D E Wuertz
Plant Dis Rep 53(8):640-641

CROP PROTECTION

11475-69

Aug 1969 1.9 P69P

Ceratocystis ulmi, Conidia, Density, Fungi, Methodology, Mycology.

11475-69

BASAL CANKER OF WHITE PINE.

D R Houston

Forest Sci 15(1):66-83 REF

Mar 1969 99.8 F7632

Etiology, Formica fusca, Fungus diseases (plants), Fusarium, Pinus strobus, Plant injuries, Verticillidiella.

11476-69

PINUS SABINIANA AND PINUS MURICATA AS HOSTS FOR DIPLODIA PINEA IN CALIFORNIA.

R S Hunt

Plant Dis Rep 53(8):675-677 REF

Aug 1969 1.9 P69P

Fungus diseases (plants), Macrophoma pinea, Pinus muricata, Pinus sabiniana.

11477-69

SIGNIFICANT SPECIMENS OF ELSINOE AND SPHACELOMA TAKEN BY U. S. PLANT QUARANTINE INSPECTORS II.

A E Jenkins A J Watson

Plant Dis Rep 53(8):672-675 REF

Aug 1969 1.9 P69P

Elsinoc, Fungus diseases (plants), Plant quarantine, Sphaceloma, Surveys.

11478-69

EFFECT OF PLANTING DATES ON THE INCIDENCE AND SEVERITY OF CORN VIRUS DISEASES.A J Keaster M S Zuber M L Fairchild P J Loesch
Agron J 61(3,MAY-JUN):363-364

Jun 1969 4 AM34P

Corn, Mosaic, Planting date, Stunt, Virus diseases (plants).

A planting date study was conducted for a three year period to determine the effects on the severity and incidence of certain symptoms associated with maize dwarf mosaic or corn stunt. Results indicated that the disease incidence and severity increased with each delay in planting.

11479-69

ASSOCIATION OF PEPPER RINGSPOT VIRUS (BRAZILIAN TOBACCO RATTLE VIRUS) AND HOST CELL MITOCHONDRIA.

E W Kitajima A S Costa

J Gen Virol 4(2):177-181 REF

Mar 1969 QR360.A116

Mitochondria, Redpeppers (vegetable), Ring spot, Virology, Virus diseases (plants).

11480-69

ULTRASTRUCTURE OF POTATO AND DATURA STRAMONIUM PLANT CELLS INFECTED WITH POTATO VIRUS X.

F E Kozar Y M Sheludko

Virology 38(2):220-229 REF

Jun 1969 448.8 V81

Cells, Datura stramonium, Potatoes, Virus diseases (plants), Virus X. English summary.

11481-69

CHERELLE WILTING IN COCOA INDUCED BY TIBA.

J Krekule

Trop Agr & St Augustine & 46(1):69-72 REF

Jan 1969 26 T754

Cherelle wilt (cacao), Chloroethyltrimethylammonium chloride, (2-, Cocoa, Triiodobenzoic acid, 2,3,5-. English summary.

11482-69

INTERIM REPORT ON VIRUS DISEASES OF PAWPAW IN EAST AFRICA.

H Y Kulkarni F M L Sheffield

Pans (pest Articles News Sum) Sect A Insect Contr 15(2):184-185

Jun 1969 423.92 G798

Caricaceae, Plant diseases, Virus diseases (plants).

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11483-69

FROM THE CLOVER TO THE STRAWBERRY PLANT: TRANSMISSION OF A VIRUS DISEASE BY CICADELLIDAE. (FR)

P Lherault

Phytoma 20(195):41

Feb 1968 464.8 P563

Acucephalus nervosus, Cicadellidac, Clover, Euscelis plebejus, Plant disease transmission, Strawberries, Virus diseases (plants).

11484-69

A NEW CONTRIBUTION TO THE USE OF DAMP SULPHUR AGAINST THE MILDEW OF GRAPES: EXPERIMENTAL RESULTS. (FR)

P Malbrunot

Phytoma 20(195):31-33

Feb 1968 464.8 P563

Chemical control (plant diseases), Dosage, Fungicides, Fungus diseases (plants), Grapes, Mildew, Sulfur, Tables (data).

11485-69

UREDO HAMELIAE--A NEW REPORT FOR THE CONTINENTAL UNITED STATES.

F D Matthews

Plant Dis Rep 53(8):656

Aug 1969 1.9 P69P

Fungus diseases (plants), Plant diseases, Rubiaceae, Uredo.

11486-69

RESEARCH ON FUSARIUM DISEASE. IV. FUSARIUM TAXONOMY. (FR)

C M Messiaen R Cassini

Ann Epiphyt 19(3):387-454 REF

1968 464.9 F84AN

Bibliography, Fungus diseases (plants), Fusarium, Habitats, Plant taxonomy. English abstract.

11487-69

EVALUATION OF NINE FUNGICIDES IN CONTROLLING FLAG SMUT OF WHEAT.

P B Metcalfe J F Brown

Plant Dis Rep 53(8):631-633 REF

Aug 1969 1.9 P69P

Chemical control (plant diseases), Fungicides, Plant physiology, Urocystis agropyri, Wheat.

11488-69

STUDIES ON LOSSES IN WHEAT YIELD DUE TO ARTIFICIAL EPIDEMIC OF BLACK RUST OF WHEAT AT DIFFERENT STAGES OF GROWTH.

A B Mishra S P Singh S M Sharma

Pans (pest Articles News Sum) Sect A Insect Contr 15(2):232-234

Jun 1969 423.92 G798

Black rust, Crop losses, Plant disease resistance, Plant physiology, Wheat.

11489-69

WHITE ROT OF ONION IN LUCKNOW.

K G Mukerji J P Tewari

Pans (pest Articles News Sum) Sect A Insect Contr 15(2):235-236

Jun 1969 423.92 G798

Fungus diseases (plants), Humidity, Onions, Plant diseases, Sclerotium rolfsii.

11490-69

ACQUISITION OF MAIZE DWARF MOSAIC VIRUS BY THE GREENBUG, SCHIZAPHIS GRAMINUM.

L R Nault R H E Bradley

Entomol Soc Amer Ann 62(2):403-406 REF

Mar 1969 420 EN82

Corn, Disease transmission, Dwarf disease, Insect vectors, Mosaic, Schizaphis graminum.

11491-69

OCCURRENCE OF FUNGI ANTAGONISTIC TO PORIA WEIRII IN A DOUGLAS-FIR FOREST SOIL IN WESTERN OREGON.

E E Nclson

Forest Sci 15(1):49-54

Mar 1969 99.8 F7632

Biology, Cephalosporium, Penicillium, Poria weirii, Pseudotsuga menziesii, Soil fungi, Surveys, Trichoderma viride.

11492-69

ELECTRON MICROSCOPIC STUDIES ON THE REPLICATIVE FORM OF ALFALFA MOSAIC VIRUS RNA. (FR)

A Nicolaieff L Hirth L Pinck

J Gen Virol 4(2):283-286 REF

Mar 1969 QR360.A116

Alfalfa, Chromatography, Electron microscopy, Mosaic, RNA viruses, Virology. English summary.

11493-69

THE STRUCTURE OF TOBACCO MOSAIC VIRUS FROM BASE ANALOGUE TREATED TOBACCO LEAVES.

A Nomura T Taniguchi T Hirai

Jap J Microbiol 13(2):193-197

Jun 1969 448.8 J273

Chemical structure, Chromatography, Mosaic, Plant biochemistry, Thiouracil, Tobacco, Tobacco mosaic virus.

11494-69

EFFECT OF MINERAL NUTRITION ON THE FUSARIUM BROWN FOOT-ROT OF WHEAT.

P E Onuorah

Plant Soil 30(1):99-104 REF

Feb 1969 450 P696

Brown foot rot, Fungus diseases (plants), Fusarium, Minerals, Plant nutrition, Wheat.

11495-69

PRINCIPAL DISEASES OF ROSES, ROSA SPP. (SP)

R M I Orozco

Fitofilo 60(21,OCT-DEC):29-34

Dec 1968 421 F55

Captan, Chemical control (plant diseases), Fungicides, Fungus diseases (plants), Rosa, Zineb.

11496-69

A SURVEY OF PAWPAW DEBILITY IN TANZANIA.

W T H Peregrine

Pans (pest Articles News Sum) Sect A Insect Contr 15(2):177-183

Jun 1969 423.92 G798

Ascochyta, Caricaceae, Fungus diseases (plants), Meloidogyne javanica, Moniliales, Pythium, Surveys.

11497-69

SUSCEPTIBILITY OF HEVEA RUBBER CLONES TO LEAF DISEASE CAUSED BY TWO SPECIES OF PHYTOPHTHORA.

P N R Pillay K H Chee

China Plant Protect Bull 16(3):49-51

Jun 1968 464.9 C47

Fungus diseases (plants), Hevea, Leaf diseases, Phytophthora meadii, Phytophthora palmivora.

11498-69

STIMULATION OF BIOSYNTHESIS OF TOBACCO MOSAIC VIRUS BY ANTIMETABOLITES.

E Sander

J Gen Virol 4(2):235-244 REF

Mar 1969 QR360.A116

Antimetabolites, Biosynthesis, Mosaic, Tobacco, Virology, Virus diseases (plants).

11499-69

STUDIES ON THE FUNGICIDAL CONTROL OF RICE BLAST.

S N De S Seneviratne

Trop Agr & Peradeniya & 123(3-4,JUL-DEC):85-98

Dec 1967 26 T751

Blast, Chemical control (plant diseases), Dithiocarbamates, Ferbam, Fungicides, Mercury compounds, Organotin compounds, Rice, Triphenyltin acetate.

Organomercury, organotin and dithiocarbamate fungicides were evaluated and compared for control of rice blast in Ceylon. Verdasan (organomercury), Antraol (dithiocarbamate) and Brestan 60

(fentin acetate) were all more effective than the currently recommended compoundfermate (ferbam).

11500-69

EFFECTS OF APHID-TRANSMITTED VIRUSES ON THE STRAWBERRY CULTIVARS NORTHWEST AND COLUMBIA.

C H Shanks P C Crandall
Plant Dis Rep 53(8):639-640
Aug 1969 1.9 P69P

Chaetosiphon fragaefolii, Crinkle, Crop yields, Mottle, Plant diseases, Strawberries, Virus diseases (plants), Yellow edge.

11501-69

SUSCEPTIBILITY OF TEA CLONES TO COLLAR AND BRANCH CANKER DISEASE (PHOMOPSIS THEAE).

N Shanmuganathan R L De Silva
Ceylon Tea Res Inst Tea Quart 39(4):92-93
Dec 1968 68.18 C33

Canker, Fungus diseases (plants), Phomopsis, Plant disease resistance, Plant diseases, Tea.

11502-69

A NEW RECORD OF PESTALOTIOPSIS PALMARUM (COOKE) STEYAERT ON CHILLIES (CAPSICUM ANNUUM. L).

K Sivaprakasam N Shanmugam C V Govindaswamy C S Krishnamurthy
Madras Agr J 56(1):39-40
Jan 1969 22 M262

Chilis, Coconuts, Fungus diseases (plants), Pestalotiopsis.

11503-69

ROOT SURFACE FUNGI OF CROTALARIA.

K Sivasithamparam C B Sulochana
Plant Soil 30(1):34-40
Feb 1969 450 P696

Fungi, Fungus cultures, Microscopy, Mosaic, Plant physiology, Roots, Sunn crotalaria, Virus diseases (plants).

11504-69

APPLICATION OF IMMUNOPRECIPITATION IN AGAR GEL FOR THE SEROLOGICAL TYPING OF SOYBEAN ROOT-NODULES.

V Skrdleta
Folia Microbiol 14(1):32-35 REF
1969 448.3 C332

Bacterial diseases (plants), Immunodiagnosis, Methodology, Plant diseases, Serodiagnosis, Soybeans.

11505-69

STEM PITTING OF YELLOW BUD MOSAIC VIRUS-INFECTED PEACHES.

S H Smith J A Traylor
Plant Dis Rep 53(8):666-667 REF
Aug 1969 1.9 P69P

Peaches, Plant diseases, Plant morphology, Stem pitting, Surveys, Virus diseases (plants), Yellow bud mosaic.

11506-69

THE DISEASES OF ALFALFA, MEDICAGO SATIVA L.

M O Solis
Fitofilo 60(21,OCT-DEC):44-48
Dec 1968 421 F55

Alfalfa, Fungus diseases (plants), Plant disease resistance, Plant nutrition.

11507-69

PLANT VIRUSES. THEIR CHARACTERISTICS AND IDENTIFICATION. (FR)

G Sommereyns
J. Duculot S.A., Gembloux, Belgium 345P REF
1967 SB736.S6

Anaphylaxis, Biochemistry, Complement fixation, Diagnosis, Insect vectors, Plant disease resistance, Plant disease transmission, Plant physiology, Serological tests, Virus diseases (plants).

11508-69

THE EFFECT OF LOW DOSES OF GAMMA RAYS UPON THE RATE OF INFECTION OF PLANTS WITH GRASS MILDEW (ERYSPHIE GEAMINIS DC). I. (POL)

S Starzycki J Pala E Konopko
Hodowla Roslin Aklimatyzacja Nasiennictwo 11(1):103-108 REF
1967 64.8 H66

Barley, Erysiphe graminis, Fungus diseases (plants), Gamma rays, Plant disease transmission, Seedlings. English and Russian summaries.

11509-69

CONTRIBUTION TO THE ETIOLOGY OF SOME GALLS FOUND IN ISRAEL.

M Sternlicht
Marcellia 35(1-2,MAR-JUN):45-61 REF
Jun 1968 421 M33

Cynipidae, Gall-making insects, Insect morphology, Plant galls, Quercus.

11510-69

FOREST MICROFUNGI. I. AMPULLIFERINA PERSIMPLEX N. GEN., N. SP. ON LEAVES OF LABRADOR TEA.

B C Sutton
Can J Bot 47(4):609-616
Apr 1969 470 C16C

Ampulliferina persimplex, Forests, Fungus diseases (plants), Leaves, Microorganisms, Tea.

11511-69

MYCOFLORA RESEARCH IN THE SURROUNDINGS OF THE COMMUNITY OF ALBAC. (RUM)

E Szasz S Mocan
Cluj Univ Babes Bolyai Stud Ser Biol 13(1):45-50 REF
1968 442.9 C62

Biology, Fungi, Fungus diseases (plants), Mycoflora, Nurseries, Plant protection, Zoogeography. French and Russian summaries listing of 75 fungi.

11512-69

REACTION OF DENT CORN INBREDS AND HYBRIDS TO ACERIA TULIPAE AND WHEAT STREAK MOSAIC VIRUS.

J B Tunac C M Nagel
Plant Dis Rep 53(8):662-664
Aug 1969 1.9 P69P

Aceria tulipae, Dent corn, Mosaic, Plant breeding, Plant disease resistance, Plant diseases, Virus diseases (plants).

11513-69

EFFECT OF SEED AND ROOT EXUDATES ON THE GROWTH OF XANTHOMONAS PHASEOLI VAR. FUSCANS.

V Vancura M Stanek A Hanzlikova
Folia Microbiol 14(1):23-26
1969 448.3 C332

Bacterial diseases (plants), Barley, Beans, Physiology, Plant diseases, Roots, Secretions, Seeds, Wheat, Xanthomonas phaseoli.

11514-69

NUTRITIONAL REQUIREMENTS OF XANTHOMONAS PHASEOLI VAR. FUSCANS.

V Vancura A Hanzlikova
Folia Microbiol 14(1):27-31
1969 448.3 C332

Culture media, L-glutamic acid, Nutrition, Physiology, Saccharides, Tissue culture, Xanthomonas phaseoli.

11515-69

INOCULATION.

J M Waterson
Pans (pest Articles News Sun) Sect A Insect Contr 15(2):171-176 REF
Jun 1969 423.92 G798

Animal vectors, Bacterial diseases (plants), Dusting, Fungus diseases (plants), Immunization, Methodology, Spraying.

11516-69

FREEZE-ETCHING OBSERVATIONS ON TOBACCO LEAVES INFECTED WITH TOBACCO MOSAIC VIRUS.

J H M Willison E C Cocking
J Gen Virol 4(2):229-233 REF
Mar 1969 QR360.A116

Mosaic, Tobacco, Virology, Virus diseases (plants).

11517-69

SUNFLOWER, A NEW HOST OF COLEOSPORIUM MADIA.

C E Yarwood
Plant Dis Rep 53(8):648
Aug 1969 1.9 P69P

Coleosporium, Fungus diseases (plants), Madia sativa, Pinus radiata, Plant diseases, Plant ecology, Sunflowers.

11518-69

EPIDEMIC DECLINE OF BREADFRUIT IN THE PACIFIC ISLANDS.

P Zaiger G A Zentmyer
China Plant Protect Bull 15(2):25-29
Apr 1967 464.9 C47

Breadfruit, Dieback, Fungus diseases (plants), Fusarium solani, Phomopsis, Pythium, Surveys.

ARTHROPODS

11519-69

COCCIDS (COCCOIDEA: HOMOPTERA: INSECTA) AFFECTING FRUIT PLANTS IN BIHAR (INDIA).

S M Ali
Bombay Natur Hist Soc J 65(1):120-137 REF
Apr 1968 513 B63

Coccoidea, Fruit, Surveys.

11520-69

THE PHYTOPHAGOUS FAUNA OF A MISLETOWE (LORANTHUS LONGIFLORUS DESR.: LORANTHACEAE) IN WEST PAKISTAN.

G M Baloch A I Mohyuddin
Weed Res 9(1):62-64
Mar 1969 79.8 W412

Loranthus, Phytophagous insects, Phytophagous mites, Surveys.

11521-69

FOREST CHARACTER AND VULNERABILITY OF BALSAM FIR TO SPRUCE BUDWORM IN MINNESOTA.

H O Batzer
Forest Sci 15(1):17-25 MAP REF
Mar 1969 99.8 F7632

Abies balsamea, Choristoneura fumiferana, Forest surveys, Picea glauca, Picea mariana, Plant injuries, Stand density.

11522-69

HISTOCHEMICAL EVIDENCE OF THE ABUNDANCE OF SOLUBLE AMINE PRODUCTS IN THE NUTRIENT TISSUES OF GALLS. (FR)

R Bronner J Meyer
Marcellia 35(1-2,MAR-JUN):105-110 REF
Jun 1968 421 M33

Amines, Aulax glechomae, Cecidomyiidae, Gall-making insects, Glechoma hederacea, Histochemistry, Plant biochemistry, Quercus.

11523-69

THE EFFECT OF OTHER NEW INSECTICIDES IN THE CONTROL OF BLACK GRUBS OF CITRUS. (POR)

R Calza N S Filho A Orlando
Biologico 34(12):262-264
Dec 1968 442.8 B529

Chemical control (insects), Citrus, Insecticides, Mecarbam, Toxoptera citricida.

11524-69

11524-69

BIOLOGICAL STUDY OF PHORACANTHA SEMIPUNCTATA F. (COLEOPTERA; CERAMBYCIDAE, XYLOPHAGE) SPECIFIC TO THE EUCALYPTUS IN TUNISIA, AND RESEARCH ON THE VITALITY AND ADAPTATION OF ITS (EUCALYPTUS) OILS. (FR)

C Chararas

Paris Acad Agr France Compt Rend Hebd Seances 55(1):47

15 Jan 1969 14 P215BC

Cerambycidae, Eucalyptus, Insect control, Oils, Plant physiology.

11525-69

SHOT-HOLE BORER CONTROL RECOMMENDATIONS--1969.

W Danthanarayana

Ceylon Tea Res Inst Tea Quart 39(4):115-118

Dec 1968 68.18 C33

Chemical control (insects), Chlorinated hydrocarbons, Heptachlor, Insecticide application, Insecticides, Tea, Xyleborus.

11526-69

INVESTIGATION INTO THE ORIENTATION OF THE ALATE SACCHIPHANTES (CHERMES) ABIETIS (L.) IN RELATION TO GALLS AND SHOOTS. (GE)

J P Ewert

Zool Beitr 13(1):1-27 REF

1967 410 Z753

Adelges abietis, Host relationships, Insect behavior, Phototropism, Picea, Plant galls, Statistical analysis.

11527-69

STATUS AND CONTROL OF THE CORN STEM WEEVIL IN THE FLORIDA EVERGLADES.

M J Janes W G Genung

Fla Entomol 52(3):137-140

Sep 1969 420 F662

Carbamates, Carbofuran, Chemical control (insects), Chlorinated hydrocarbons, Corn, DDT, Hydroxy-N-methyl-cis-crotonamide dimethyl phosphate, 3-, *Hyperodes humilis*, Insecticides, Phosphates.

11528-69

THE CAMPAIGN AGAINST THE CITRUS BLACKFLY. ALEUROCANTHUS WOGLUMI ASHBY. (SP)

E J Jimenez T R Carrillo

Fitofilo 60(21, OCT-DEC):23-28

Dec 1968 421 F55

Aleurocanthus woglumi, Biological control (insects), Citrus, Insect control, Predaceous insects, Sanitation control (insects), Surveys.

11529-69

STUDIES OF THE BYRON BOG IN SOUTHWESTERN ONTARIO XXXV. INSECTS REARED FROM GALLS FROM THE WOODED SLOPES OF THE BOG.

W W Judd

Marcellia 35(1-2, MAR-JUN):77-81 REF

Jun 1968 421 M33

Bogs, Gall-making insects, Insect rearing, Insects, Plant galls, Surveys.

11530-69

ON THE KNOWLEDGE OF THE RELATIONSHIP OF THE COCCINELLIDAE TO PINE GROVES (PINUS SILVESTRIS L.). (GE)

B Klausnitzer

Acta Ent Bohemoslov 64(1):62-68 REF

1967 420 C33

Coccinellidae, Insect behavior, Insect ecology, Insect nutrition, Pinus sylvestris, Population. Czech abstract.

11531-69

EFFECT OF CONE FEEDING BY LEPTOGLOSSUS OCCIDENTALIS ON PONDEROSA PINE SEED DEVELOPMENT.

S L Krugman T W Koerber

Forest Sci 15(1):104-111

Mar 1969 99.8 F7632

Coreidae, Leptoglossus occidentalis, Pine cones, Pinus ponderosa, Seeds.

11532-69

PROFIT BY PEST CONTROL IN CSH-1 AND CSH-2 SORGHUMS.

J P Kulshreshtha S B Rao V S Singh

Indian Farming 18(10):34-35

Jan 1969 22 IN283

Atherigona, Carbaryl, Chemical control (insects), Chilo zonellus, Contarinia sorghicola, Crop yields, Endrin, Hybrids, Noctuidae, Organophosphorus compounds, Phorate, Plant disease resistance, Sorghum, Tetranychidae.

11533-69

A NOTE ON THE INCOMPATIBILITY OF TWO PRE-BLOSSOM APHICIDES (DEMETON-METHYL AND DIMETHOATE) WITH LIME-SULPHUR.

J M Lewis R P Tew

East Malling Res Sta Annu Rep (AS1):183-184

1968 103 EA7

Aphidiinae, Chemistry, Dimethoate, Fungicides, Hydrolysis, Insecticides, Lime, Methyl demeton, Sulfur.

11534-69

THE IMPORTANCE OF INSECTS FOR THE DISPERSAL OF INFECTIOUS OAK WILT. (GE)

I I Minkevich

Beitr Entomol 17(1-2):299-304 REF

1967 421 B392

Agrilus, Cerambycidae, Fungus diseases (plants), Insect vectors, Larvae, Quercus, Tree injuries, Wilt. English and Russian abstracts.

11535-69

LIST OF INTERCEPTED PLANT PESTS, 1966. (PESTS RECORDED FROM JULY 1, 1965, THROUGH JUNE 30, 1966.).

B C Mumford

U S Agr Res Serv ARS-82 (6-1):82P

Mar 1967 A464.479 R31

Host indexing (plants), Insect pests, Nomenclature, Plant diseases, Plant nematodes, Plant quarantine, Snails, Zoogeography.

11536-69

PREFERENCE STUDIES WITH HOSTS AND NONHOSTS OF THE BOLL WEEVIL, ANTHONOMUS GRANDIS.

W L Parrott F G Maxwell J N Jenkins D D Hardee

Entomol Soc Amer Ann 62(2):261-264 REF

Mar 1969 420 EN82

Anthonomus grandis, Attractants, Food habits, Gossypol, Plant biochemistry, Plant extracts.

11537-69

AMINO ACIDS IN HOSTS AND NONHOSTS OF THE BOLL WEEVIL, ANTHONOMUS GRANDIS.

W L Parrott F G Maxwell J N Jenkins J K Mauldin

Entomol Soc Amer Ann 62(2):255-261 REF

Mar 1969 420 EN82

Amino acids, Anthonomus grandis, Chromatography, Cotton, Plant biochemistry.

11538-69

USE OF AN ACTOGRAPH WITH ELECTROACOUSTICAL DETECTOR FOR THE STUDY OF GRAIN INSECTS. ACTOGRAPHY OF THE LARVAL DEVELOPMENT OF SITOPHILUS GRANARIUS. DETECTION OF THE PRIMARY EFFECTS OF THE IONIZING RADIATIONS. (FR)

P Pesson M Ozer

Ann Epiphyt 19(3):501-512

1968 464.9 F84AN

Electrical engineering, Grain, Insect physiology, Ionizing radiation, Larvae, Sitophilus granarius, Sound waves, Vibration. English abstract.

11539-69

OBSERVATIONS ON THE INSECT PESTS OF THE SUGAR CANE CROP AT KANTALAI (CEYLON).

A Rajendra

Ceylon J Sci Biol Sci 8(1):21-26

Oct 1968 475 C33

Insect pests, Sugarcane.

11540-69

A NOTE ON NEPHUS REGULARIS SIC. (COCCINELLIDAE; COLEOPTERA) AS A PREDATOR OF FERRISIA VIRGATA CKLL.

R R Rawat B N Modi

Madras Agr J 55(12):541-542

Dec 1968 22 M262

Coccinellidae, Insect biology, Insect pests, Predaceous insects, Vegetables.

11541-69

NEW SOUTH WALES DEPARTMENT OF AGRICULTURE, ENTOMOLOGY.

Annual Report 1966-7 (extracts). Branch

Anonymous

Pans (pest Articles News Sum) Sect A Insect Contr 15(2):225-227

Jun 1969 423.92 G798

Agricultural research, Chemical control (insects), Extracts, Insect pests, Insecticides, Surveys.

11542-69

AGRICULTURAL ENTOMOLOGY IN THE USSR.

Ye M Shumako

Entomol Rev 47(2, APR-JUN):153-164 REF

Jun 1968 421 R322AE

Agricultural history, Bibliography, Economic entomology, Insect pests. Russian journal-Entomologicheskoye Obozreniye, p. 261-279.

11543-69

CURRENT STUDIES ON ATHERIGONA INDICA--A PEST OF WHEAT.

S P Singh H R Sahu Z Singh

Pans (pest Articles News Sum) Sect A Insect Contr 15(2):222-224

Jun 1969 423.92 G798

Atherigona, Carbamates, Carbaryl, Chemical control (insects), Chlorinated hydrocarbons, Dimethoate, Disulfoton, Endrin, Insecticides, Lindane, Organophosphorus compounds, Phorate, Seeds, Wheat.

11544-69

EMERGENCE OF THE OVERWINTERING GENERATION OF GALLMIDGES LIVING ON ALFALFA.

M Skuhrava V Skuhrava

Marcellia 35(1-2, MAR-JUN):111-115 REF

Jun 1968 421 M33

Alfalfa, Cecidomyiidae, Contarinia, Dasineura, Emergence, Humidity, Temperature.

11545-69

MICROBIAL CONTROL IN HAWAII.

M Tamashiro

Hawaii Entomol Soc Proc 20(1):157-167 REF

Jun 1968 420 H312

Bacillus thuringiensis, Biological control (insects), Entomogenous fungi, Insect diseases, Microbial insecticides, Protozoa.

11546-69

ACERIA TULIPAE IN NORTH DAKOTA.

R G Timian E H Lloyd

Plant Dis Rep 53(8):623

Aug 1969 1.9 P69P

Aceria tulipae, Insect vectors, Mites, Surveys, Virus diseases (plants), Wheat.

11547-69

OBSERVATIONS ON THE MORPHOLOGY AND THE HISTOCYTOLOGY OF THE VIRESCENT PRODUCTS OF ERIOPHYES CLADOPHTHIRUS NAL. ON SOLANUM DULCAMAARA L.. (FR)

E Westphal

Marcellia 35(1-2, MAR-JUN):83-103 REF

Jun 1968 421 M33

Eriophyidae, Gall-making insects, Histochemistry, Mites, Plant physiology, Solanum.

11548-69
CHEMICAL CONTROL OF THE WHITE POTATO GRUB PREMNOTRYPES VORAX (HUSTACHE). (SP)
 I Zenner J L Posada O
Agr Trop 25(4):195-204
 Apr 1969 26 AG8
 Chemical control (insects), Curculionidae, Insect control, Insecticides, Potatoes, Premnotrypes vorax.

11549-69
THE REPELLENCY OF MATURE CITRUS LEAVES TO PROBING APHIDS.
 F W Zettler M O Smyly I R Evans
Entomol Soc Amer Ann 62(2):399-402 REF
 Mar 1969 420 EN82

Aphis eraccivora, Aphis gossypii, Aphis spiraeicola, Beans, Citrus, Crotalaria, Insect behavior, Insect repellents, Myzus persicae.

NEMATODES

11550-69
FLAVIANIC ACID AS A HATCHING AGENT FOR HETERODERA CRUCIFERA FRANKLIN AND OTHER CYST NEMATODES.
 H J Clarke A M Shepherd
Nature 213(5074):419-420 REF
 28 Jan 1967 472 N21
 Hatching, Heterodera cruciferae, Hydroxy-5,7-dinitro naphthalenesulfonic acid, 8-, Nematodes, Picric acid.

11551-69
SUSCEPTIBILITY OF TWO CITRUS ROOT-STOCKS TO PRATYLENCHUS SPP.
 J Feldmesser C I Hannon
Plant Dis Rep 53(8):603-607 REF
 Aug 1969 1.9 P69P
 Citrus, Plant disease resistance, Plant nematodes, Pratylenchus, Rootstocks, Surveys.

11552-69
FACTORS INFLUENCING THE RATIO OF MALES TO FEMALES IN THE GENUS HETERODERA. II. MINIMUM LIVING SPACE-SELECTIVE RATE OF MORTALITY OF SEXES--SEX RATIO (HETERODERA SCHACHTII). (GE)
 U Kerstan
Nematologica 15(2):210-228 REF
 May 1969 436.8 N342
 Ecology, Habitats, Heterodera schachtii, Mortality, Plant nematodes, Population, Sex. English abstract.

11553-69
ANALYSIS OF TOTAL LIPIDS AND FATTY ACIDS OF PLANT-PARASITIC NEMATODES AND HOST TISSUES.
 L R Krusberg
Compar Biochem Physiol 21(1):83-90 REF
 Apr 1967 444.8 C73
 Alfalfa, Aphelenchoides ritzema-bosi, Chromatography, Ditylenchus dipsaci, Ditylenchus trifurmis, Fatty acids, Lipids, Plant nematodes, Plants, Pratylenchus penetrans, Pyrenochaeta terrestris, Tylenchorhynchus claytoni.

11554-69
PLANT PARASITIC NEMATODES ASSOCIATED WITH SUGARCANE PRODUCTION IN RHODESIA.
 G C Martin
China Plant Protect Bull 15(3):45-58
 Jun 1967 464.9 C47
 Meloidogyne javanica, Plant nematodes, Soil fumigation, Sugarcane, Surveys.

11555-69
INFLUENCE OF GROWING MARIGOLDS, WEEDS, TWO COVER CROPS AND FUMIGATION ON SUBSEQUENT POPULATIONS OF PARASITIC NEMATODES AND PLANT GROWTH.
 P M Miller J F Ahrens

Plant Dis Rep 53(8):642-646 REF
 Aug 1969 1.9 P69P
 Cover crops, Ethylene dibromide, Fumigation, Plant nematodes, Plant physiology, Population, Pratylenchus penetrans, Tylenchorhynchus claytoni, Weeds.

11556-69
CHRYSANTHEMUM EELWORM.
Great Brit Min Agr Fish Food Adv Leaflet (339):1-7
 May 1966 10 G79LA
 Aphelenchoides ritzema-bosi, Chemical control (nematodes), Chrysanthemum, Diethyl O-2-pyrazinyl phosphorothioate, O,O-, Hot water treatment (plants), Parathion, Plant nematode resistance, Plant nematodes, Thionazin.

The life cycle, and control of the chrysanthemum eelworm (Aphelenchoides ritzema-bosi) are discussed including a description of infested plants. Hot water treatment and applications of thionazin and parathion are the recommended control measures.

11557-69
PROPIONIC ACID BETTER THAN ACETIC ACID FOR KILLING NEMATODES.
 C Netscher J W Seinhorst
Nematologica 15(2):286
 May 1969 436.8 N342
 Acetic acid, Chemical control (nematodes), Nematodes, Propionic acid.

11558-69
STYLET-BEARING NEMATODES ASSOCIATED WITH PLANTS IN IOWA PRAIRIES.
 D C Norton P E Ponchillia
Iowa Acad Sci Proc 75:32-35 MAP
 1968 500 IO93
 Morphology, Mouth parts, Plant nematodes, Surveys, Zoogeography.

11559-69
EFFECT OF ROOT EXTRACT OF ASPARAGUS RACEMOSUS TAGETES ERECTA ON HATCHING OF EGGS OF MELOIDOGYNE JAVANICA MELOIDOGYNE ARENARIA.
 G Swarup R D Sharma
Indian J Exp Biol 5(1):59
 Jan 1967 442.8 IN2
 Asparagus, Diethyl O-2-pyrazinyl phosphorothioate, O,O-, Hatching, Meloidogyne ardenensis, Meloidogyne javanica, Nematocides, Plant extracts, Plant nematodes, Tagetes erecta.

11560-69
STUBBY ROOTS OF COFFEE SEEDLINGS CAUSED BY ROTYLENCHULUS RENIFORMIS.
 R B Valdez
Philippine Agr 51(8):36-43
 Jan 1968 25 P542
 Chemical control (nematodes), Coffee, Dichloropropane dichloropropene mixture, Plant nematodes, Roots, Tylenchulus reniformis.

11561-69
INVESTIGATIONS OF NEMATODE-DESTROYING FUNGI IN CENTRAL IOWA.
 G D Van Dyke
Iowa Acad Sci Proc 75:20-32
 1968 500 IO93
 Ecology, Nematodes, Plant physiology, Predaceous fungi, Soil fungi, Surveys.

WEEDS

11562-69
SOME ASPECTS OF UTILIZATION OF WATER HYACINTH (EICHORNIA CRASSIPES).
 A A Abdalla A T A Hafeez
Pans (pest Articles News Sum) Sect A Insect Contr 15(2):204-207
 Jun 1969 423.92 G798
 Cyperus rotundus, Eichhornia crassipes, Mulches, Plant analysis, Soil moisture, Weed control.

11563-69
NURSERY INVESTIGATIONS: WEED CONTROL.
 J R Aldhous J Atterson A J Low R M Brown
Great Brit Forest Comm Rep Forest Res 28-36
 1968 99.9 G795RE
 Chemical control (weeds), Coniferae, Methylsulfonyl-2,6-dinitro-N,N-dipropylaniline, 4-(, Nursery stock (forestry), Propazine, Seedlings, Simazine.
 Partial contents, p. 34-35

11564-69
WEED CONTROL IN THE FOREST.
 J R Aldhous R M Brown J Atterson
Great Brit Forest Comm Rep Forest Res 75-82
 1968 99.9 G795RE
 Chemical control (weeds), Dicamba, Forest management, Herbicide application, Herbicides, Oils, Paraffins, Pteridium aquilinum, Rhododendron, T, 2,4,5-, Weed control, Weeds.

11565-69
NURSERY INVESTIGATIONS. WEED CONTROL.
 J R Aldhous J Atterson A J Low R M Brown
Great Brit Forest Comm Rep Forest Res 28-36
 1968 99.9 G795RE
 Chemical control (weeds), Chlorothiamid, Dicamba, Forests, Larix, Parquat, Pinus, Pteridium aquilinum, Rhododendron, T, 2,4,5-, Triazine.
 Partial contents, p. 33-34

11566-69
THE EFFECT OF POST-EMERGENCE HERBICIDES ON THE VEGETATIVE AND REPRODUCTIVE GROWTH OF CENTROSEMA PUBESCENS BENTH. IN QUEENSLAND.
 D R Bailey
Weed Res 9(1):9-19
 Mar 1969 79.8 W412
 Chemical control (weeds), Herbicides, Leguminosae, Plant physiology.

11567-69
THE PRESENT STATUS OF BIOLOGICAL CONTROL OF XANTHIUM (COMPOSITAE).
 G M Baloch M A Gani
Pans (pest Articles News Sum) Sect A Insect Contr 15(2):154-159 REF
 Jun 1969 423.92 G798
 Biological control (weeds), Cerambycidae, Coprosoma, Noctuidae, Pyralidae, Weed control, Xanthium.

11568-69
A METHOD FOR DETERMINATION OF 2,4-DICHLOROPHENOXYACETIC ACID (2,4-D) IN ALGAL CULTURE MEDIA. (GE)
 E Behm I Schroder
Weed Res 9(1):43-47 REF
 Mar 1969 79.8 W412
 Algae, Chemical analysis, Culture media, D, 2,4-, Herbicides, Spectrophotometry.

11569-69
INFLUENCE OF MAIZE DWARF MOSAIC VIRUS AND TRACE LEVELS OF ATRAZINE ON WEIGHT AND FOLIAR ELEMENT ACCUMULATION BY TWO SINGLE CROSS MAIZE HYBRIDS IN THE GREENHOUSE.
 H Cole D R MacKenzie C B Smith C D Ercegovich
Plant Dis Rep 53(8):652-655
 Aug 1969 1.9 P69P
 Atrazine, Chlorinated hydrocarbons, Corn, Dwarf mosaic, Herbicides, Hybrids, Plant biochemistry, Plant diseases, Virus diseases (plants).

11570-69
2-CHLORO-2',6'-DIETHYL-N-(METHOXYMETHYL)-ACETANILIDE.
 D M Evans
Chem Indus (19):615-616
 10 May 1969 382 M31C
 Chemical control (weeds), Chloro-2',6'-diethyl-N-(methoxymethyl)acetanilide, 2-, Field crops, Herbicides, Preemergence, Temperature.

11571-69

11571-69

WEED CONTROL IN CRUCIFER CULTURES WITH 2-CHLOR-N-ISOPROPYLACETANILIDE. (GE)

H Geinhauer H Will

Berlin Biol Bundesanst Land-forstwirtschaft Mitt (121):269-276

Feb 1967 410.9 G31M

Cauliflower, Chemical control (weeds), Chloro-N-isopropylacetanilide, 2-, Cruciferae, Herbicides, Kohlrabi, Onions, Weed control. English abstract

11572-69

THE RESPONSE OF POTTED APPLE AND PLUM PLANTS TO BROMACIL AND CILORTHIAMID.

R I C Halloway

East Malling Res Sta Annu Rep (A51):89-91 1968 103 EA7

Apples, Bromacil, Dichlorothiobenzamide, 2,6-, Herbicides, Plums, Roots.

11573-69

CRITICAL PERIODS FOR WEED COMPETITION.

L Kasasian J Seeyave

Pans (pest Articles News Sum) Sect A Insect Contr 15(2):208-212

Jun 1969 423.92 G798

Competition, Cultural control (weeds), Plant physiology, Vegetables, Weed control.

11574-69

THE PRESENT STAGE OF WEED CHEMICAL CONTROL IN RICE FIELDS. (RUM)

A Melachrinou

Probl Agr 11(5):41-50 REF 1969 21 R862

Algae, Chemical control (weeds), Herbicides, Propanil, Rice, T. 2,4,5-, Weed control.

11575-69

COMPOSITION OF WEED FLORA IN SPRING CEREALS IN FINLAND.

J Mukula M Raatikainen R Lallukka T Raatikainen

Ann Agr Fenn 8(2):59-109 MAP REF 1969 20 AN7

Grain, Plant ecology, Plant geography, Surveys, Weeds.

11576-69

A PRELIMINARY EVALUATION OF COTTON HERBICIDES FOR PEASANT FARMING IN NORTHERN NIGERIA.

J Ogborn

Pans (pest Articles News Sum) Sect A Insect Contr 15(2):194-199

Jun 1969 423.92 G798

Chemical control (weeds), Cotton, Crop yields, Dimethyl-3-(alpha,alpha-trifluoro-m-tolyl)urea, 1,1-, Herbicides, Trifluralin, Weed control.

11577-69

WEEDS IN THE DISTRICT OF TIRANA. (AL)

X Qosja

Tirana Inst Larte Shteteror Bujqesise Bul Shken Bujq 22(2):63-79

1968 512 T51

Crops, Grain, Grasses, Plant ecology, Plant geography, Weeds. French summary.

11578-69

EFFECT OF CHEMICAL AND CULTURAL METHODS OF WEED CONTROL ON THE YIELD AND GROWTH OF MAIZE.

R K S Raghuvanshi K P Garg

Pans (pest Articles News Sum) Sect A Insect Contr 15(2):200-203 REF

Jun 1969 423.92 G798

Chemical control (weeds), Corn, Cultural control (weeds), D, 2,4-, Plant physiology, Weed control.

11579-69

STUDY OF THE INTRODUCTION OF C. C. C. INTO CEREAL PRODUCTION TECHNIQUES. FIRST PART: WINTER WHEAT. (FR)

L Rixhon A Crohain

Gembloux Inst Agron Bull Etat Ser Extraordinaire 3(3):516-561 REF

1968 105.1 G285

Chemical control (weeds), Chloroethyltrimethylammonium chloride, 2-, Climate, Crop yields, Herbicides, Plant physiology, Weed control, Wheat.

11580-69

EFFECTS OF DESICCATION AND TEMPERATURE ON SURVIVAL OF CYPERUS ESCULENTUS TUBERS AND CYNODON DACTYLON RHIZOMES.

P E L Thomas

Weed Res 9(1):1

Mar 1969 79.8 W412

Cultural control (weeds), Cynodon dactylon, Cyperus esculentus, Drying, Longevity, Temperature.

11581-69

THE EFFECTS OF SHOOT REMOVAL ON THE RHIZOME CARBOHYDRATE RESERVES OF COUCH GRASS (AGROPYRON REPENS (L.) BEAUV.).

D J Turner

Weed Res 9(1):27-36 REF

Mar 1969 79.8 W412

Agropyron repens, Carbohydrates, Defoliation, Herbicides, Paraquat, Plant metabolism, Plant physiology, Rhizomes.

11582-69

THE USE OF DIURON FOR WEED CONTROL IN MATURE LOW-GROWN TEA.

D T Wettasinghe

Ceylon Tea Res Inst Tea Quart 39(4):119-120

Dec 1968 68.18 C33

Chemical control (weeds), Diuron, Herbicides, Paraquat, Tea, Weed control.

OTHER PESTS

11583-69

MANIMALS AND BIRDS.

J J Rowe

Great Brit Forest Comm Rep Forest Res 116-117

1968 99.9 G795RE

Chemical control (pests), Deer, Fertilizers, Forests, Pest control, Squirrels, Starlings, Traps.

LIVESTOCK PROTECTION

11584-69

NOTICE OF WITHDRAWAL OF PETITION FOR FOOD ADDITIVE RUELENE.

J K Kirk

Fed Regist 34(104,PT 1):8373-8374

30 May 1969 L1.451

Cattle, Food additives, Grubs, Insect control, Parasitism, Regulations, Ruclene.

DISEASES

11585-69

SOME OBSERVATIONS ON THE PRESENT STATUS OF RABIES IN THE AMERICAS. (SP)

N P Acha

Ofic Sanit Panamer Bol 66(3):211-218

Mar 1969 449.9 P192B

Animal vectors, Disease transmission, Dogs, Human diseases, Rabies, Virus diseases (animals). English, Portuguese and French summaries.

11586-69

FURTHER STUDIES ON RESPIRATORY INFECTIONS OF POULTRY IN EGYPT.

A A S Ahmed M S Saber M A Elisis M Reda K H Abbasi

J Vet Sci U A R 5(1):85-104 REF 1968 SF604.16

Antibodies, Mycoplasma gallisepticum, Poultry, Respiratory diseases, Serological tests, Surveys, Virus diseases (animals).

11587-69

REPLICATION AND CYTOPATHOGENICITY OF AVIAN INFECTION BRONCHITIS VIRUS IN CHICKEN EMBRYO KIDNEY CELLS.

T G Akers C H Cunningham

Arch Gesamte Virusforsch 25(1):30-37 REF Nov 1968 448.3 AR23

Chick embryos, Cytopathogenic viruses, Fluorescence microscopy, Infectious bronchitis, Reproduction, Virus diseases (animals).

11588-69

LABORATORY TECHNIQUES IN BRUCELOSIS.

G G Alton L M Jones

World Health Organ Monogr Ser (55):92P REF 1967 QR201.B8A4

Allergies, Bacteriology, Brucellosis, Livestock diseases, Methodology, Serological tests, Vaccines, Veterinary medicine.

11589-69

OCCURRENCE OF ENCEPHALITIS CAUSED BY INFECTIOUS BOVINE RHINOTRACHEITIS VIRUS IN CALVES IN HUNGARY.

A Bartha G Hajdu P Aldasy Gy Paczolay

Acta Vet (budapest) 19(2):145-151 1969 41.8 AC83

Animal histology, Calves, Encephalitis, Infectious bovine rhinotracheitis virus, Vaccines, Virus diseases (animals).

11590-69

CONTROL OF EQUINE PIROPLASMOSIS IN FLORIDA.

J E Bryant J B Anderson K H Willers

Amer Vet Med Ass J 154(9):1034-1036 01 May 1969 41.8 AM3

Babesia caballi, Chemical control (insects), Chlorinated hydrocarbons, Dermaecentor nitens, Drug therapy, Horses, Insect vectors, Insecticides, Lindane, Livestock diseases, Piroplasmosis, Toxaphene.

Equine piroplasmosis was brought under control by application of pesticides to eliminate the tick vector (Dermaecentor nitens) and by the administration of babesiacidal drugs to known serologically positive horses in Florida.

11591-69

CHARACTERIZATION OF AVIAN ENCEPHALOMYELITIS VIRUS (AN AVIAN ENTEROVIRUS).

W K Butterfield R E Luginbuhl C F Helmboldt

Avian Dis 13(2):363-378 REF May 1969 41.8 AV5

Avian encephalomyelitis, Biochemistry, Picornaviruses, Serological tests, Virus diseases (animals), Virus-neutralization tests.

11592-69

PASTEURILLOSIS: PASTEURILLA MULTICIDA AND PASTEURILLA HEMOLYTICA.

G R Carter

Advances Vet Sci 11:321-379 REF 1967 41.8 AD9

Bacterial diseases (animals), Bibliography, Epidemiology, Immunity, Morphology, Pasteurella haemolytica, Pasteurella multocida, Pasteurellosis, Serological tests, Taxonomy, Tissue culture, Zoogeography.

A literature review of the taxonomy, distribution, morphology, biochemistry, pathology, serology and immunology of Pasteurella multocida and P. hemolytica is presented. An extensive bibliography is also included.

11593-69

OCCURRENCE OF INFLUENZA A/EQUI-2 INFECTION OF HORSES IN HUNGARY.

L Csontos T Fehervari J Bokori S Goyne A Bartha Et Al

Acta Vet (budapest) 19(2):183-189 MAP REF 1969 41.8 AC83

Horses, Influenza viruses, Myxoviruses, Virus diseases (animals).

11594-69

THE REACTIVITY OF THE WHITE BLOOD PICTURE IN THE HORSE. (GE)

H Eikmeier D Manz

Deut Tierarztl Wochensh 75(13):323-327 REF

01 Jul 1968 41.8 D482

Animal diseases, Blood composition, Horses, Leukocytes, Leukocytosis, Leukopenia, Lymphocytosis, Skin diseases. English summary.

11595-69

A SURVEY ON AVIAN SALMONELLOSIS IN U. A. R..

M A El Agroudi I M Sadek

J Vet Sci U A R 5(1):11-17 REF

1968 SF604.J6

Birds, Salmonellosis, Surveys.

11596-69

AUGMENTATION OF THE PATHOGENICITY OF THE RIBONUCLEIC ACID OF FOOT-AND-MOUTH VIRUS BY ADDITION OF DIETHYLAMINOETHYL-DEXTRAN. (FR)

M-T Fayet

Acad Sci Compt Rend Ser D Sci Nat 264(5, 1ST SEMESTER):783-784

30 Jan 1967 505 P21

Diethylaminoethyl dextran, Foot-and-mouth disease virus, Reproduction, Ribonucleic acid, Tissue culture, Viruses.

11597-69

STUDIES ON WILD RESERVOIRS AND VECTORS OF TRYPANOSOMA CRUZI. XXXIV: NATURAL INFECTION OF THE RAT, ORYZOMYS CAPITO LATICEPS (LUND, 1841). BY T. CRUZI. (POR)

G K Funayama M P Barretto

Rev Brasil Biol 29(2):163-173 REF

Jun 1969 442.8 R326

Animal diseases, Animal vectors, Disease transmission, Rats, Trypanosoma cruzi. English abstract.

11598-69

THE MORPHOLOGICAL AND BIOLOGICAL STATUS OF TWO ENTERIC PROTOZOA INVESTIGATED IN DOMESTIC DUCKS AND GESE IN EGYPT.

M H Haiba M N El-Shabrawy

J Vet Sci U A R 5(1):19-28 REF

1968 SF604.J6

Amebiasis, Amoeba, Biology, Ducks, Geese, Morphology, Protozoa, Trichomonas.

11599-69

DEGRADATION OF CELLULAR RIBONUCLEIC ACID IN NEWCASTLE DISEASE VIRUS INFECTED CELLS.

W Huo D E Wilson

J Gen Virol 4(2):245-251 REF

Mar 1969 QR360.A1J6

Chick embryos, Deoxyribonucleic acid, Newcastle disease virus, Proteinases, Ribonucleic acid, Virology.

11600-69

BOVINE EPIZOOTIC FEVER. III. LOSS OF VIRUS PATHOGENICITY AND IMMUNOGENICITY FOR THE CALF DURING SERIAL PASSAGE IN VARIOUS HOST SYSTEMS.

Y Inaba Y Tanaka K Sato H Ito T Omori Et Al

Jap J Microbiol 13(2):181-186

Jun 1969 448.8 J273

Antibodies, Calves, Ephemeral fever, Hamsters, Immunity, Mice, Virus diseases (animals).

11601-69

RABIESVIRUS NEURONITIS.

A B Jensen E R Rabin D C Bentinck J L Melnick

J Virology 3(2):265-269

Feb 1969 QR360.J6

Electron microscopy, Mice, Nervous system diseases, Rabies virus.

11602-69

ATTEMPTS TO INDUCE RECOMBINANT SOMATIC CELLS IN CHICKEN ERYTHROCYTE CHIMAERAS BY REPEATED INJECTION OF WESTERN EQUINE ENCEPHALOMYELITIS VIRUS.

M Gresikova K Hala M Hasek I Karakoz

Folia Biol (praha) 15(2):81-86 REF

1969 442.8 F712

Animal genetics, Chickens, Chimeras, Erythrocytes, Serological tests, Western equine encephalomyelitis.

11603-69

RESULTS OF RESEARCH ON THE ETIOLOGY OF HEPATIC NECROSIS IN SHEEP. (FR)

R V Katich B Djoukitch V Dimitrijevitch Z

Voukitchevitch Lj Cvetkovitch Et Al

Rec Med Vet 145(6):543-556 REF

Jun 1969 41.8 R24

Bacteriology, Clostridium, Hepatic necrosis, Livestock diseases, Sheep. English and Spanish abstracts.

11604-69

TOXICITY AND ANTIGENICITY OF SHIPPING FEVER VACCINES IN CALVES.

K A Larson K R Schell

Amer Vet Med Ass J 155(3):495-499 REF

01 Aug 1969 41.8 AM3

Antigens, Calves, Pasteurella bacterins, Toxicology, Viral vaccines.

11605-69

ANTIFUNGAL EFFECTS OF PEROXIDASE SYSTEMS.

R I Lehrer

J Bacteriol 99(2):361-365 REF

Aug 1969 448.3 J82

Aspergillus fumigatus, Aspergillus niger, Biochemistry, Candida, Fungicides, Geotrichum, Peroxidases, Rhodotorula, Saccharomyces.

11606-69

ELECTRON MICROSCOPY OF THE LYSIS OF SALMONELLA BY BDELLOVIBRIO BACTERIOVIRUS. (FR)

P Lepine A Guelin J Sisman D Lamblin

Acad Sci Compt Rend Ser D Sci Nat 264(25, 1ST SEMESTER):2957-2960

19 Jun 1967 505 P21

Bacteriophages, Bdellovibrions, Electron microscopy, Lysis, Salmonella.

11607-69

OCCURRENCE OF STAPHYLOCOCCI IN CASES OF BOVINE MASTITIS.

V Matejovska M Bastar

J Hyg Epidemiol Microbiol Immunol 13(1):90-96

1969 448.8 J826

Antibiotics, Cattle, Human diseases, Infectious diseases, Mastitis, Staphylococcus, Surveys.

11608-69

AMPROL FOR THE PREVENTION OF COCCIDIOSIS IN GROWING TURKEYS.

28P

1961 SF995.M4

Amprolium, Coccidiosis, Coccidiostats, Feed additives, Infectious diseases, Poultry diseases, Tolerances, Turkeys.

11609-69

NATURAL STREPTOBACILLUS MONILIFORMIS INFECTION OF TURKEYS, AND ATTEMPTS TO INFECT TURKEYS, SHEEPS, AND PIGS.

Y S Mohamed P D Moorehead E H Bohl

Avian Dis 13(2):379-385

May 1969 41.8 AV5

Animal disease transmission, Sheep, Streptobacillus moniliformis, Swine, Turkeys.

11610-69

DISEASES OF ANIMALS.

Toxicity Bibliogr 2(1,JAN-MAR):S-1-S-2

1969 Z7890.T6

Animal diseases, Bibliography, Cattle, Dogs, Horses, Poultry, Rodents, Sheep, Swine, Toxicology.

11611-69

A COMPARISON OF THE TUBE AGGLUTINATION, SUPPLEMENTAL, AND BRUCELLOSIS RING TESTS IN SELECTED DAIRY HERDS IN NEW YORK.

P Nicoletti G E Burch

Cornell Vet 59(3):349-354

Jul 1969 41.8 C81

Brucellosis, Cattle, Diagnosis, Methodology, Serological tests.

11612-69

HEAT STABILITY AND KINETICS OF HEAT INACTIVATION OF NON-SPECIFIC SPECIFIC BRUCELLA AGGLUTININS IN CATTLE BUFFALO SERUM.

R C Pathak C M Singh

Indian J Exp Biol 7(2):105-107 REF

Apr 1969 442.8 IN2

Agglutination test, Antibodies, Brucella, Buffaloes, Cattle, Serodiagnosis, Serum, Temperature.

11613-69

THE ADAPTATION OF A STRAIN OF CANINE DISTEMPER VIRUS TO CHICK EMBRYONIC CELLS AND THE UTILIZATION OF ITS CYTOPATHOGENIC EFFECT IN SERONEUTRALISATION. (FR)

H G Petermann

Rec Med Vet 145(6):563-574

Jun 1969 41.8 R24

Canine distemper virus, Serodiagnosis, Serum neutralization test, Tissue culture, Virus diseases (animals). English and Spanish abstracts.

11614-69

AN ATTEMPT AT AN OBJECTIVE EVALUATION OF THE OXIDASE REACTION IN LEPTOSPIRA CULTURES.

I Plesko M Vladar

Biologia (bratislava) 22(2):90-95

1967 442.8 B5265

Leptospira, Oxidases, Taxonomy, Tissue culture.

11615-69

THE PENICILLIN PEARL TEST IN THE DIFFERENTIAL DIAGNOSIS OF BACILLUS ANTHRACIS AND BACILLUS CEREUS. (CZ)

K Prokucek

Czech Min Zemed Les Hospod Ustav Vedeckotech Inform Vet Med 14(2):103-112 REF

Feb 1969 41.9 C333

Bacillus anthracis, Bacillus cereus, Diagnosis, Penicillin. Russian, English and German abstracts.

11616-69

BOVINE MASTITIS DUE TO PSEUDOMONAS PYOCYANEA.

R Raghavan R D Nanjiah R F Patil A S Upadhye

Mysore J Agr Sci 2(3):214-218

1968 S19.M9

Cattle, Livestock diseases, Mastitis, Microorganisms, Pseudomonas aeruginosa.

11617-69

USE OF THE NUCLEIC ACID HYBRIDIZATION METHOD FOR THE DEMONSTRATION OF DNA HOMOLOGOUS TO ROUS VIRUS RNA IN RSV-TRANSFORMED MAMMALIAN CELLS.

T Rakusanova

Folia Biol (praha) 15(2):96-103 REF

1969 442.8 F712

Biochemistry, Chickens, Deoxyribonucleic acid, Ribonucleic acid, Rous sarcoma virus, Tissue culture.

11618-69

PRODUCTION OF ACID MUCOPOLYSACCHARIDES IN MAMMALIAN FIBROBLAST TISSUE CULTURES TRANSFORMED BY ROUS SARCOMA VIRUS.

T Rakusanova

Folia Biol (praha) 15(2):87-95 REF

1969 442.8 F712

LIVESTOCK PROTECTION

11619-69

Biochemistry, Polysaccharides, Rats, Rous sarcoma virus, Tissue culture.

11619-69

THE USE OF THE HEMOLYTIC ACTIVITY OF NEWCASTLE DISEASE VIRUS AS A MEANS OF STRAIN TYPING.

I M Reda A A S Ahmed M S Saber H El-Gendi
J Vet Sci U A R 5(2):159-164
1968 SF604 J6

Chickens, Electrolysis, Hemolysis, Methodology, Newcastle disease virus, Potassium, Serological tests.

11620-69

AMYLOPECTIN, THE STORAGE POLYSACCHARIDE OF THE COCCIDIA EIMERIA BRUNETTI AND E. TENELLA.

J F Ryley M Bentley D J Manners J R Stark
J Parasitol 55(4):837-845 REF
Aug 1969 448.8 J824

Amylopectins, Biochemistry, Chemical analysis, Eimeria brunetti, Eimeria tenella, Polysaccharides, Sporozoites.

11621-69

DIAGNOSIS, INCIDENCE AND TREATMENT OF SUB-CLINICAL MASTITIS IN DAIRY BUFFALOES.

A H Said A S Abd-el-Malek
J Vet Sci U A R 5(2):171-181 REF
1968 SF604 J6

Antibiotics, Bacteriology, Bovine mastitis, Buffaloes, Diagnosis, Milk analysis.

11622-69

VIRUS LOCALIZATION IN RABIES. (GE)

J Schaaf E Schaaf
Deut Tierarztl Wochenschr 75(13):315-316,319-323 REF
01 Jul 1968 41.8 D482

Antigens, Diagnosis, Fluorescent antibody technic, Inclusion bodies, Rabies virus, Virology, Virus diseases (animals). English summary.

11623-69

INVESTIGATIONS ON THE INCIDENCE OF MYCOPLASMA IN SWINE AND THEIR SIGNIFICANCE IN ENZOOTIC PNEUMONIA AND ATROPHIC RHINITIS.

M Scheer J Hartwich J v Sandersleben
Acta Vet (budapest) 19(2):125-130 REF
1969 41.8 AC83

Animal morphology, Atrophic rhinitis, Enzootic pneumonia, Mycoplasma, Swine.

11624-69

BIOSYNTHESIS OF GLUCOSYL DIGLYCERIDES BY MYCOPLASMA LAIDLAWII STRAIN B.

P F Smith
J Bacteriol 99(2):480-486 REF
Aug 1969 448.3 J82

Bacteriology, Biochemistry, Glycerides, Mycoplasma, Synthesis.

11625-69

INH CIEMOPROPHYLAXIS IN CALVES IN THE PROCESS OF THE ERADICATION OF BOVINE TUBERCULOSIS UNDER THE CONDITIONS OF LARGE-SCALE PRODUCTION. (CZ)

J Straka
Czech Min Zemed Les Hospod Ustav Vedeckotech Inform Vet Med 13(10):545-549 REF
Oct 1968 41.9 C333

Calves, Drug therapy, Isoniazid, Livestock diseases, Tuberculosis. English, Russian and German abstracts.

11626-69

BOVINE EPIZOOTIC FEVER. II. PHYSICO-CHEMICAL PROPERTIES OF THE VIRUS.

Y Tanaka Y Inaba K Sato H Ito T Omori Et Al
Jap J Microbiol 13(2):169-176
Jun 1969 448.8 J273

Biochemistry, Cattle, Ephemeral fever, Virology, Virus diseases (animals).

BIBLIOGRAPHY

11627-69

PROPERTIES OF THE ATTENUATED VACCINE STRAIN OF DUCK HEPATITIS.

N M Tauraso G E Coghil M J Klutch
Avian Dis 13(2):321-329 REF
May 1969 41.8 AV5

Biochemistry, Ducks, Hepatitis, Picornaviruses, Serological tests, Vaccines.

11628-69

THE SECRETION IN VITRO OF HYALURONIC ACID AND COLLAGEN BY EMBRYONIC HUMAN CELLS TRANSFORMED IN CULTURE BY ROUS SARCOMA VIRUS. (FR)

V Van Tuyen R Maunoury H Febvre
Acad Sci Compt Rend Ser D Sci Nat 265(18, 2ND SEMESTER):1345-1348 REF
30 Oct 1967 505 P21

Collagen, Humans, Rous sarcoma virus, Secretion, Tissue culture.

11629-69

STUDY OF GASTRIC FUNCTION IN SWINE WITH GASTROENTERITIS.

J Varga L Pesti
Acta Vet (budapest) 19(2):113-118 REF
1969 41.8 AC83

Animal physiology, Gastroenteritis, Gastrointestinal system, Hydrogen-ion concentration, Pepsin, Swine.

11630-69

PURIFICATION OF EIMERIA TENELLA SPOOROZITES WITH GLASS BEAD COLUMNS.

G E Wagenbach
J Parasitol 55(4):833-838
Aug 1969 448.8 J824

Culture media, Eimeria tenella, Methodology, Purification, Sporozoites.

11631-69

EFFECT OF TEMPERATURE ON SURVIVAL OF AIRBORNE MYCOPLASMA PNEUMONIAE.

D W Wright G D Bailey L J Goldberg
J Bacteriol 99(2):491-495 REF
Aug 1969 448.3 J82

Humidity, Longevity, Mycoplasma pneumoniae, Temperature.

11632-69

A PRELIMINARY STUDY OF THE PIGMENT OF CORYNEBACTERIUM OVIS.

M M Zaki
J Vet Sci U A R 5(2):165-170 REF
1968 SF604 J6

Biochemistry, Corynebacterium, Diagnosis, Livestock diseases, Pigments, Serological tests.

11633-69

PRESENCE OF HUMAN ENTEROPATHOGENIC STRAINS OF ESCHERICHIA COLI IN DAIRY ANIMALS IN UPPER EGYPT.

M M Zaki S M Nashed
J Vet Sci U A R 5(1):105-110 REF
1968 SF604 J6

Animal disease transmission, Cattle, Escherichia coli, Human diseases, Surveys.

ARTHROPODS

11634-69

THE CONTROL OF TSETSE AND TRYPANOSOMIASIS IN THE NORTH-EASTERN DISTRICTS OF RHODESIA.

T J Caswell
Pans (pest Articles News Sun) Sect A Insect Contr 15(2):219-221
Jun 1969 423.92 G798

Chemical control (insects), Chlorinated hydrocarbons, Dieldrin, DDT, Glossina morsitans, Insecticides, Trypanosoma congolense.

11635-69

ON A SPECIES OF LIPOPTENA (DIPTERA, HIPPOBOSCIDAE, MELOPHAGINAE) FROM INDIAN SPOTTED DEER AND HOG DEER.

M B Chhabra S Chander
Indian Vet J 46(1):38-41
Jan 1969 41.8 IN2

Deer, Hippoboscidae, Insect identification, Insect morphology, Lipoptena, Parasitism.

11636-69

THE EFFECT OF TRICHLORPHONE (SOLDEP, HYPODERMIN) ON SOME ECTOPARASITES OR MYCOSES IN CATTLE AND SHEEP. (CZ)

T Goovin J Sokol R Cabada
Czech Min Zemed Les Hospod Ustav Vedeckotech Inform Vet Med 13(11-12, NOV-DEC):643-648 REF
Dec 1968 41.9 C333

Acarus siro, Cattle, Chemical control (insects), Insect control, Melophagus ovinus, Mycosis, Scab, Sheep, Sheep-dip, Trichlorfon. Russian, English and German abstracts.

11637-69

ORAL FAMPHUR FOR TREATMENT OF CATTLE LICE, AND AGAINST SCABIES MITES AND EAR TICKS OF CATTLE AND SHEEP.

I H Roberts W P Melency S A Apodaca
Amer Vet Med Ass J 155(3):504-509 REF
01 Aug 1969 41.8 AM3

Cattle, Ears, Famphur, Haematopinus eurysternus, Insect control, Otobius megnini, Psoroptes ovis, Sheep.

11638-69

TICKS (IXODOIDEA) OF DOMESTIC ANIMALS IN IRAQ. PART 5. INFESTATIONS IN THE LIWAS OF DIWANIYA AND NASIRIYA (SPRING), KARBALA (WINTER), AND HILLA (AUTUMN AND WINTER).

J Robson J M Robb N J Hawa
J Med Entomol 6(2):120-124 MAP
May 1969 421 J828

Ixodoidea, Livestock, Surveys.

Collections in spring from 316 animals yielded 1,591 ticks; in winter from 449 animals, 3,966 ticks; and in autumn from 186 animals, 3,397 ticks. Their identification and incidence are given. Discussion includes a comparison with summer infestations. Meteorological data are given.

11639-69

TICKS (IXODOIDEA) OF DOMESTIC ANIMALS IN IRAQ. PART 6. DISTRIBUTION.

J Robson J M Robb N J Hawa T Al-Wahayyib
J Med Entomol 6(2):125-127 MAP
May 1969 421 J828

Ixodoidea, Livestock, Zoogeography.

Over a period of 2 years 103,965 ticks were collected from domestic animals. *H. anatolicum* subsp., *H. m. turanicum*, *R. sanguineus* group and *B. annulatus* occurred throughout Iraq. *H. a. asiaticum*, *H. (h.) parvae*, *h. (H.) sulata*, *O. lahorensis* and *R. bursa* were restricted to the northern areas, while *H. detritum* was confined to the central and southern parts. *H. dromedarii*, *H. schulzei*, *H. m. marginatum* and *A. lepidum* were also recovered.

11640-69

RESIDUAL INSECTICIDES FOR USE AGAINST TSETSE FLIES IN RHODESIA.

G Vans
Pans (pest Articles News Sun) Sect A Insect Contr 15(2):213-218
Jun 1969 423.92 G798

Chemical control (insects), Chlorinated hydrocarbons, Dieldrin, DDT, Glossina morsitans, Glossina pallidipes, Insecticide residues.

PARASITES

11641-69

OXYURATA OF THE CENTRAL ELEVATED PLAIN ON THE GENUS STRONGYLURIS MUELLER, 1894 WITH DESCRIPTION OF TWO NEW SPECIES. (POR)

C J R Alho

Rev Brasil Biol 29(1):65-74 REF

Apr 1969 442.8 R326

Oxyuriasis, Taxonomy. French abstract.

11642-69

EARLY DEVELOPMENT OF TAENIA CRASICEPS IN THE INTERMEDIATE HOST, WITH A NOTE ON PRIMITIVE CELL TYPES.

F M Bilquees

Australian J Zool 17(3):487-493 REF

Jul 1969 410 AU73

Cytology, Development, Mammals, Taenia, Tissue culture.

11643-69

PARASITIC REPORTS OF FOREIGNERS FROM WARM CLIMATES. (GE)

L Britz W Krause

Angew Parasitol 9(4):225-237 REF

Dec 1968 436.8 AN4

Epidemiology, Helminthiasis, Human diseases, Protozoa, Surveys, Zoogeography. English and Russian abstracts

11644-69

THE OXIDASE SYSTEMS OF MONIEZIA EXPANSA (CESTODA).

K S Cheah

Compar Biochem Physiol 23(1):277-300 REF

Oct 1967 444.8 C73

Cytochrome oxidase, Metabolism, Moniczia expansa, Physiology.

11645-69

MORPHOGENESIS AND MIGRATION OF ASCARIS SUUM LARVAE DEVELOPING TO FOURTH STAGE IN SWINE.

F W Douvres F G Tromha G M Malakatis

J Parasitol 55(4):689-712 REF

Aug 1969 448.8 J824

Ascaris lumbricoides suum, Biology, Larvae, Locomotion, Morphology, Swine.

11646-69

TRIBROMOPHENOXYBUTYRIC ACID AS AN ANTHELMINTIC AGAINST POULTRY TAPEWORMS. (GE)

G Grafner P Betke H D Grauhmann

Angew Parasitol 9(4):212-216

Dec 1968 436.8 AN4

Animal physiology, Anthelmintics, Cestoda, Hydrogen-ion concentration, Hymenolepis carioaca, Poultry diseases, Raillietina cesticillus. English and Russian abstracts

11647-69

THE PRESENCE OF TRICHINELLA SPIRALIS (OWEN, 1835) IN CARNIVORES AND WILD BOARS IN THE DELTA REGION OF THE SENEGAL RIVER. (FR)

S Grettillat G Vassiliades

Acad Sci Compt Rend Ser D Sci Nat 264(10, 1ST SEMESTER):1297-1300

06 Mar 1967 505 P21

Animal diseases, Susceptibility, Trichinella spiralis, Wildlife.

11648-69

A COMPARATIVE STUDY OF THE BACTERIAL FLORA OF THE SMALL INTESTINE OF NORMAL AND ASCARIDIA GALLI INFESTED CHICKENS WITH ITS RELATION TO THAT OF THE INCLUDED WORMS.

M H Haiha A A Geneida

J Vet Sci U A R 5(2):143-154 REF

1968 SF604.J6

Ascaridia galli, Bacteria, Chickens, Clostridium perfringens, Escherichia coli, Gastrointestinal system, Streptococcus faecalis, Surveys.

11649-69

CRITICAL STUDIES ON THE INCIDENCE AND BIOLOGICAL PECULIARITIES OF HYDATIC PATHOGENS, ECHINOCOCCUS GRANULOSUS AND ECHINOCOCCUS MULTILOCULARIS IN WEST PAKISTAN.

M Z Hussain A S Akhtar

Pakistan J Sci 20(3):100-106 REF

May 1968 475 P172

Cats, Dogs, Echinococcosis, Echinococcus granulosus, Morphology, Surveys.

11650-69

OVINE DICROCOELIOSIS AND ITS COMPLICATIONS. (FR)

J P Lafay

Rec Med Vet 145(6):597-608

Jun 1969 41.8 R24

Clostridium, Diagnosis, Dicrocoelium dendriticum, Drug therapy, Sheep. English and Spanish abstracts.

11651-69

STUDIES ON DELAYED (CELLULAR) HYPERSENSITIVITY IN MICE INFECTED WITH TRICHINELLA SPIRALIS. IV. ARTIFICIAL SENSITIZATION OF DONORS.

J E Larsh H T Goulson N F Weatherly E F Chaffee

J Parasitol 55(4):726-729

Aug 1969 448.8 J824

Antigens, Hypersensitivity, Immunity, Mice, Trichinella spiralis.

11652-69

THE INFLUENCE OF SOME PHYSICAL FACTORS ON THE EXOGENOUS DEVELOPMENT OF THE EGGS OF TRICHOCEPHALUS TRICHURUS AND ASCARIS LUMBRICOIDES UNDER LABORATORY CONDITIONS. (CZ)

E Magrova

Biologia (bratislava) 22(5):364-374

1967 442.8 B5265

Ascaris lumbricoides, Eggs, Morphology, Temperature, Trichuris trichiura, Ultraviolet rays. German and Russian abstracts.

11653-69

INTERESTING PERINEAL PATTERNS IN SPECIES OF THE GENUS MELOIDOGYNE GOELDI, 1887. (POR)

J J da Ponte

Rev Brasil Biol 29(1):141-143

Apr 1969 442.8 R326

Meloidogync, Taxonomy. English abstract.

11654-69

ULTRASTRUCTURE OF DYADS IN MUSCLE FIBERS OF ASCARIS LUMBRICOIDES.

J Rosenhluth

J Cell Biol 42(3):817-825 REF

Sep 1969 442.8 J828

Ascaris lumbricoides, Electron microscopy, Histology, Muscles.

11655-69

EXCITATORY AND INHIBITORY MOTONEURONS IN THE CENTRAL NERVOUS SYSTEM OF THE LEECH.

A E Stuart

Science 165(3895):817-819

22 Aug 1969 470 SC12

Electrophysiology, Hirudinea, Morphology, Nervous system.

11656-69

SPINAL NEMATODOSIS IN A HORSE.

O G Swanstrom J L Rising W W Carlton

Amer Vet Med Ass J 55(5):748-753

01 Sep 1969 41.8 AM3

Animal physiology, Helminthiasis, Horses, Nervous system, Oxyuriasis, Parascaris equorum, Strongylus.

11657-69

PATHOMORPHOLOGICAL, HISTOLOGICAL AND FUNCTIONAL CHANGES IN LIVER IN SHEEP DICROCOELIASIS. (SE)

B Vujic I Grus K Petrovic

Vet Glas 22(11):953-959 REF

1968 41.8 J93

Dicrocoeliasis, Dicrocoelium dendriticum, Liver, Parasitism, Sheep. English and Russian summaries.

11658-69

TWO CASES OF PRAENATAL STRONGYLOIDOSIS. (CZ)

D Zajicek

Czech Min Zemed Les Hospod Ustav Vedeckotech Inform Vet Med 5(14):329-332

May 1969 41.9 C333

Baby pigs, Diagnosis, Helminthiasis, Sheep. English, German and Russian abstracts.

COMMODITY PROTECTION

ARTHROPODS

11659-69

A PRACTICAL TRIAL OF PYRETHRINS-IN-OIL SURFACE SPRAYS FOR THE PROTECTION OF BAGGED GRAIN AGAINST INFESTATION BY CADRA CAUTELLA (WLK.) (LEPIDOPTERA, PHYCTIDAE) IN KENYA.

J A McFarlane N K Sylvester

J Stored Prod Res 4(4):285-293

Feb 1969 421 J829

Cadra cautella, Grain, Insecticidal aerosols, Insecticide resistant insects, Phycitidae, Plant protection, Pyrethrum, Sitophilus oryzae, Stored products, Tribolium castaneum.

11660-69

RELATIVE TOXICITY OF CERTAIN FUNGICIDES TO TROGODERMA GRANARIUM EVERTS (COLEOPTERA, DERMESTIDAE).

G K Punj G K Girish

J Stored Prod Res 4(4):339-342 REF

Feb 1969 421 J829

Chemical control (insects), Dermestidae, Fungicides, Insect physiology, Larvae, Temperature, Toxins, Trogoderma granarium.

RODENTS AND OTHER PESTS

11661-69

SOME RODENTICIDAL PROPERTIES OF COOMATETRALYL.

J H Greaves P Ayres

J Hyg 67(2):311-315

Jun 1969 449.8 J82

Biological assay, Coumarin, Pesticides, Rats, Rodenticides, Toxicity, Warfarin.

MICROBIAL CONTAMINATION

11662-69

CONTROL OF BYSSOCHLAMYS AND RELATED HEAT-RESISTANT FUNGI IN GRAPE PRODUCTS.

A D King H D Michener K A Ito

Appl Microbiol 18(2):166-173 REF

Aug 1969 448.3 AP5

Benzoic acid, Filters, Grapes, Heat treatment, Molds, Sorbates, Spores, Sulfur dioxide.

ENVIRONMENTAL CONTAMINATION

11663-69

OBSERVATIONS ON THE REPOPULATION BY AMOEBA OF A POND LARGELY POLLUTED WITH INSECTICIDES (PROTOZOA, RHIZOPODA, TESTACEA). (FR)

11664-69

D Chardez

Gembloux Inst Agron Bull Etat Ser Extraordinaire 3(3):389-391
1968 105.1 G285

Amoeba, Insecticides, Organophosphorus compounds, Parathion, Ponds, Population, Water pollution.

11664-69

ACCUMULATION OF FLUORIDE BY FORAGE CROPS.

D C MacLean R E Schneider L H Weinstein
Boyce Thompson Inst Contrib 24(7, APR-JUN):165-166

Jun 1969 451 B69

Absorption, Air, Fluorides, Forage plants, Phlegm, Poisonous gases, Red clover.

11665-69

OCCURRENCE AND SIGNIFICANCE OF PESTICIDE RESIDUES IN WATER.

H P Nicholson

Wash Acad Sci J 59(4-5, APR-MAY):77-85 REF
May 1969 500 W276J

Carbamates, Chlorinated hydrocarbons, Insecticide residues, Organophosphorus compounds, Pesticide residues, Water pollution, Water treatment.

11666-69

DETERMINATION OF ORGANOPHOSPHORUS PESTICIDES IN WATER.

G Zweig J M Devine

Residue Rev 26:17-36 MAP REF
1969 389.9 R314

Chemical analysis, Chromatography, Organophosphorus compounds, Parathion, Pesticides, Water.

RESIDUES

11667-69

A SPECIFIC GAS CHROMATOGRAPHIC METHOD FOR RESIDUES OF ORGANIC NITROGEN PESTICIDES.

C C Cassil R P Stanovick R F Cook

Residue Rev 26:63-87 REF
1969 389.9 R314

Chemical analysis, Chromatography, Methodology, Nitrogen compounds, Organic compounds, Pesticide residues.

11668-69

RAPID METHODS OF EXTRACTION AND CLEANUP IN PESTICIDE RESIDUE ANALYSIS.

D M Coulson

U S Agr Res Serv (4):1-19
29 Mar 1968 SB959.C62

Chromatography, Cleanup, Dairy equipment, Extraction, Methodology, Pesticide residues, Pesticides.

11669-69

THE ADSORPTION OF FOUR HERBICIDES BY DIFFERENT TYPES OF ORGANIC MATTER AND A BENTONITE CLAY.

P J Doherty G F Warren

Weed Res 9(1):20-26 REF
Mar 1969 79.8 W412

Adsorption, Bentonite, Herbicides, Linuron, Organic soils, Prometrync, Pyrazon, Simazine, Soil analysis.

11670-69

PESTICIDE REGULATIONS AND RESIDUE PROBLEMS IN JAPAN.

K Fukunaga Y Tsukano

Residue Rev 26:1-16

1969 389.9 R314

Fisheries, Mercury compounds, Pesticide residues, Poisons, Regulation (pesticides), Rice.

11671-69

CARBOFURAN. NOTICE OF ESTABLISHMENT OF TEMPORARY TOLERANCES.

J K Kirk

Fed Regist 34(97):7999

21 May 1969 L1.451

Alfalfa, Dihydro-2,2-dimethyl-7-benzofuranyl methylcarbamate, 2,3-, Insecticide residues, Milk, Tolerances.

11672-69

ISOPROPYL 4,4'-DIBROMOBENZILATE. NOTICE OF ESTABLISHMENT OF TEMPORARY TOLERANCE FOR PESTICIDE CHEMICAL.

J K Kirk

Fed Regist 34(104, PT 1):8373

30 May 1969 L1.451

Citrus, Insecticide residues, Insecticides, Isopropyl 4,4'-dibromobenzilate, Tolerances.

11673-69

CHLORINATED HYDROCARBONS AS RESIDUES IN FOODS. (GE)

H Maier-Bode

Ernahr-umsch 16(6):215-219 REF

Jun 1969 389.8 ER66

Aldrin, Chlorinated hydrocarbons, Dieldrin, DDT, Food contamination, Heptachlor epoxide, Insecticides, Lindane, Pesticide residues.

11674-69

GAS CHROMATOGRAPHIC ANALYSIS OF PHORATE AND FIVE METABOLITES IN MONKEY LIVER HOMOGENATES.

H A McLeod G Mulkins S L N Rao

Bull Environ Contamination Toxicol 4(4) JUL-AUG):224-231

Aug 1969 RA1270.P35A1

Chemical analysis, Chromatography, Insecticides, Liver extracts, Monkeys, Organophosphorus compounds, Phorate.

11675-69

SIGNIFICANCE OF ORGANOCHLORINE INSECTICIDE RESIDUES IN FRESH PLANTS AS POSSIBLE CONTAMINANTS OF MILK AND BEEF PRODUCTS.

J G Saha

Residue Rev 26:89-126 REF

1969 389.9 R314

Beef, Chlorine, Food contamination, Insecticide residues, Milk, Organic compounds, Plants.

11676-69

A CARBOXYLESTERASE INHIBITION ASSAY TO ESTIMATE PARATHION, MALATHION AND DIAZINON IN LETTUCE EXTRACTS.

D C Villeneuve A G Butterfield K A McCully

Bull Environ Contamination Toxicol 4(4, JUL-AUG):234-239 REF

Aug 1969 RA1270.P35A1

Biological assay, Carboxylesterase, Chemical analysis, Diazinon, Insecticide residues, Insecticides, Lettuce, Malathion, Organophosphorus compounds, Parathion, Plant extracts.

TOXICOLOGY

11677-69

THE INFLUENCE OF HERBICIDES UPON THE ANTAGONISM BETWEEN BACILLUS SP. AND PSEUDOMONAS PHASEOLI.

N Balicka Z Krezel

Weed Res 9(1):37-42

Mar 1969 79.8 W412

Bacillus, Chlorpropham, Herbicides, Linuron, Metabolism, Prometryne, Pseudomonas, Toxicology.

11678-69

CHOLINOLYTICS IN THE TREATMENT OF ANTICHOLINESTERASE POISONING. V. THE EFFECTIVENESS OF PARPANIT WITH OXIMES IN THE TREATMENT OF ORGANOPHOSPHORUS POISONING.

I W Coleman G E Patton R A B Bannard

Can J Physiol Pharmacol 46(1):109-117 REF

Jan 1968 444.8 C16

Amyl phenol, Atropine sulfate, Caramiphen hydrochloride, Cholinesterases, Drug therapy, Guinea pigs, Mice, Organophosphorus compounds, Oximes, Rabbits, Rats, Toxicology.

The effectiveness of Parpanit in the treatment of organophosphorus poisoning was examined and compared with that of atropine sulfate. The potency of Parpanit was assessed in the mouse, rat, hamster, guinea pig, and rabbit against sarin, tabun, soman, CMPF, and DSDP in treatments in which the oximes p2s and tmb4 were used both singly and together.

11679-69

EFFECTS OF AFLATOXIN B1 AND OTHER CARCINOGENS UPON NUCLEAR RNA OF VARIOUS TISSUES IN THE RAT.

I R Floyd T Unuma H Busch

Exp Cell Res 51(2/3, AUG-SEP):423-438 REF

1968 442.8 EX7

Aflatoxin, Biochemistry, Biosynthesis, Carcinogens, Electron microscopy, Inhibitors, Rats, Ribonucleic acid, Tissues.

11680-69

EFFECT OF ISOMERS OF DDD ON THYROID AND ADRENAL FUNCTION IN RATS.

M J Fregly I W Waters J A Straw

Can J Physiol Pharmacol 46(1):59-66 REF

Jan 1968 444.8 C16

Adrenal glands, Animal physiology, Rats, Thyroid gland, TDE, Toxicology.

Dietary administration of o,p'-DDD (2,2-bis(2-chlorophenyl, 4-chlorophenyl)-1,1-dichloroethane) at 1.0 and 3.0 g/kg food for 6 weeks increased the thyroid weight of male albino rats by 62 and 81 per cent respectively. The rate of oxygen consumption (measured at 30 degrees C) and gain in body weight were unaffected by treatment. The rate of loss of ¹³¹I from the thyroid gland was significantly faster for both treated groups than for controls.

11681-69

EFFECTS OF FEEDING PROVITAMIN A, STABILIZED VITAMIN A AND FURAZOLIDONE ON PRODUCTION AND QUALITY OF EGGS.

M A Haleem

Indian Vet J 46(3):243-253 REF

Mar 1969 41.8 IN2

Egg production, Egg yolks, Eggs, Feeding, Furazolidone, Mortality, Ovulation, Vitamin A.

11682-69

STUDIES ON LABORATORY EVALUATION OF FUNGICIDES AND ANTIBIOTICS ON HELMINTHOSPORIUM NODULOSUM BERK. AND CURT.

R K Hedge N Shivanandappa

Mysore J Agr Sci 2(3):237-239

1968 S19.M9

Antibiotics, Fungicides, Helminthosporium. Eight fungicides were evaluated.

11683-69

LOCOWEED (ASTRAGALUS LENTIGINOSUS) POISONING IN CATTLE AND HORSES.

L F James K R van Kampen G R Staker

Amer Vet Med Ass J 155(3):525-530

01 Aug 1969 41.8 AM3

Astragalus, Cattle, Diagnosis, Horses, Oxytropis, Poisonous plants, Toxicology.

11684-69

MERCAPTOCAINE CREME. DRUGS FOR VETERINARY USE; DRUG EFFICACY STUDY IMPLEMENTATION.

J K Kirk

Fed Regist 34(103):8304

29 May 1969 L1.451

Anesthetics, Animals, Drug therapy, Fungicides, Mercapto compounds.

11685-69

DAPSONE AND SULFABENZ MEDICATED PREMIX. DRUGS FOR VETERINARY USE, DRUG EFFICACY STUDY IMPLEMENTATION.

J K Kirk

Fed Regist 34(101):8210

27 May 1969 L1.451

Chickens, Coccidiosis, Drug therapy, Poultry diseases, Sulfur compounds, Turkeys, Veterinary medicine.

11686-69

INTRAGEL. DRUGS FOR VETERINARY USE; DRUG EFFICACY STUDY IMPLEMENTATION. J K Kirk

Fed Regist 34(92):7665

14 May 1969 L1.451

Animals, Blood pressure, Drugs, Gelatin, Veterinary medicine.

11687-69

THE EFFECT OF PARATHION ON QUAIL EMBRYONIC DEVELOPMENT. (FR

Y Lutz-Ostertag R Meinil H Lutz

Acad Sci Compt Rend Ser D Sci Nat 268(24, 1ST SEMESTER):2911-2913

16 Jun 1969 505 P21

Animal abnormalities, Embryology, Insecticides, Organophosphorus compounds, Parathion, Quail, Toxicology.

11688-69

CONTROL OF CELL MULTIPLICATION IN UNINFECTED CHICKEN CELLS AND CHICKEN CELLS CONVERTED BY AVIAN SARCOMA VIRUSES.

H M Temin

J Cell Compar Physiol 74(1):9-15 REF

Aug 1969 444.8 J822

Cell division, Chickens, Sarcoma, Tissue culture, Virus diseases (animals).

PLANT PHYSIOLOGY & BIOCHEMISTRY

11689-69

THE METBOLISM OF GLUCOSE UNIFORMLY MARKED WITH RHADIOACTIVE CARBON IN THE LEAVES OF HEALTHY MELONS COMPARED WITH THOSE ATTACKED BY ANTHRACNOSE. (FR)

P Auriol A Uze

Acad Sci Compt Rend Ser D Sci Nat 264(13, 1ST SEMESTER):1721-1723

29 Mar 1967 505 P21

Anthracnose, Cantaloupes, Carbon-14, Fungus diseases (plants), Glucose, Leaves, Plant metabolism, Radioactive isotopes.

11690-69

PRELIMINARY LABORATORY TESTS ON THE ACTION OF TWO SYNTHETIC FUNGICIDES TO PREVENT THE FINGER STALK ROT OF BANANAS. (IT

F Beccari V Gerini C Golato E Meossi

Riv Agr Subtrop Trop 62(1/3 JAN-MAR):64-71

1968 26 AG82

Bananas, Chemical control (plant diseases), Copper, Fungicides, Fungus diseases (plants), Fusarium moniliforme, Organic compounds, Physalospora rhodina, Stalk rot. English, French and Spanish summaries.

11691-69

EXPERIMENTS WITH THE PROPAGATION OF POLYANTHA AND HYBRID TEA ROSES BY SOFTWOOD CUTTINGS. (DA)

E N Eriksen

Tidskr Plant 72(3):327-334

1968 11 T439

Dosage, Indolebutyric acid, Plant cuttings, Plant physiology, Plant regulators, Rosa, Tea. English summary.

11692-69

THE EFFECTS OF 3-AMINO-1,2,4-TRIAZOLE ON THE CARBOHYDRATE METABOLISM OF PLANTS.

J F Fredrick A C Gentile

N Y Acad Sci Ann 144(1):362-366 REF

09 Aug 1967 500 N484

Amitrole, Carbohydrates, Plant metabolism, Plant physiology.

11693-69

EFFECTS OF GIBBERELLIN TREATMENT ON THE GROWTH AND DRY WEIGHT OF THE RICE PLANTS.

J Harada K Wada

Tohoku J Agr Res 19(4):204-219

Dec 1968 22.5 T574

Gibberellic acid, Plant growth regulator, Plant morphology, Plant physiology, Rice.

11694-69

POTENTIAL INTERFERENCES IN CERTAIN PESTICIDE RESIDUE ANALYSES FROM ORGANOCHLORINE COMPOUNDS OCCURRING NATURALLY IN PLANTS.

J W Hylin R E Spenger F A Gunther

Residue Rev 26:127-138 REF

1969 389.9 R314

Algae, Chemical analysis, Chlorine, Fungi, Lichenes, Pesticide residues, Plant biochemistry, Plants.

11695-69

CHLOROTHAL DEGRADATION IN SOILS AND ITS UPTAKE BY PINE SEEDLINGS.

J G Iyer G Chesters S A Wilde

Weed Res 9(1):53-61 REF

Mar 1969 79.8 W412

Dimethyl 2,3,5,6-tetrachloroterephthalate, Pinus radiata, Plant biochemistry, Radioactive tracers, Seedlings, Soil chemistry.

11696-69

EFFECT OF DICAMBA ON OXYGEN UPTAKE AND CELL MEMBRANE PERMEABILITY IN LEAF TISSUE OF CYPERUS ROTUNDUS L.

A C Magalhaes F M Ashton

Weed Res 9(1):48-52 REF

Mar 1969 79.8 W412

Cyperus rotundus, Dicamba, Herbicides, Oxygen, Permeability, Plant metabolism, Plant physiology.

11697-69

INHIBITION OF THE ACTION OF PHYTOCHROME BY THE HERBICIDE CIPC.

J D Mann H Haid L S Jordan B E Day

Nature 213(5074):420-421

28 Jan 1967 472 N21

Brassica hirta, Chlorinated hydrocarbons, Chlorophtham, Chromoproteins, Herbicides, Lettuce, Plant growth inhibitors, Plant physiology, Ribonucleic acid, Seeds.

11698-69

RELEASE OF HYDROLYTIC ENZYMES FROM CYTOPLASMIC PARTICLES OF SOLANUM TUBER TISSUES DURING INFECTION BY TUBER-ROTTING FUNGI.

D Pitt C Coombes

J Gen Microbiol 56(3):321-329 REF

Jun 1969 448.3 J823

Fungus diseases (plants), Fusarium caeruleum, Hydrolases, Phytophthora, Phytophthora infestans, Plant diseases, Plant physiology, Potatoes.

11699-69

REACTION OF CCCP IN PHOTOSYNTHESIS ON AN INTERMEDIATE BETWEEN CHLOROPHYLL-AII AND WATER. (GE)

G Renger

Naturwissenschaften 56(7):376

Jul 1969 474 N213

Carbonyl compounds, Chlorophylls, Hydrazones, Photosynthesis, Plant biochemistry, Water.

11700-69

RESPONSE OF AMERICAN ELM SEEDLINGS TO TREATMENT WITH CAPTAN AND CYCLOHEXIMIDE.

B R Roberts R J Stipes

Forest Sci 15(1):87-91 REF

Mar 1969 99.8 F7632

Captan, Carbon dioxide, Cycloheximide, Dieback, Fungicides, Photosynthesis, Plant metabolism, Plant physiology, Ulmus americana.

11701-69

GROWTH PROMOTION IN PEA STEM SECTIONS. III. BY ALKYL NITRILES, ALKYL ACETYLENES AND INSECT JUVENILE HORMONES.

B B Stowe V W Hudson

Plant Physiol 44(7):1051-1057 REF

Jul 1969 450 P692

Acetylene compounds, Alkyls, Juvenile hormone, Nitriles, Pisum sativum, Plant physiology, Plant regulators.

11702-69

INFLUENCE OF PEROXIDASE AND CATALASES ON MYCELIAL GROWTH AND PYCNIDIUM PRODUCTION BY PLENODOMUS MELILOTI IN LIGHT AND DARKNESS.

S I Zafar N Colotelo

Can J Bot 47(4):505-512 REF

Apr 1969 470 C16C

Catalase, Fungus cultures, Fungus diseases (plants), Legumes, Peroxidases, Plant biochemistry, Plenodomus, Root rot.

CHEMISTRY

11703-69

A SCREENING METHOD FOR ORGANOCHLORINE PESTICIDE RESIDUES USING THIN-LAYER CHROMATOGRAPHY.

D C Abbott J O'G Taton N F Wood

J Chromatography 42(1):83-88 REF

03 Jun 1969 475 J824

Chlorinated hydrocarbons, Chromatography, Pesticide residues.

A screening method is described for the analysis of organochlorine pesticides in fats and vegetables by semi-quantitative thin-layer chromatography. The sample is cleaned up by the dimethyl sulphoxide partitioning process, by chromatography on a small column of alumina, or by a combination of both of these methods. Thin-layer chromatography is performed on Alumina G incorporating silver nitrate as a sensitive and selective visualizing reagent, and residues estimated by comparison of spot sizes with those of standards. Residues as low as 0.01 ppm can be estimated in some cases.

11704-69

RECOMMENDED ANALYTICAL METHODS FOR PESTICIDES. 40. METHODS OF ANALYSIS FOR TECHNICAL AND FORMULATED ENDOTHION.

Anonymous

China Plant Protect Bull 16(4):69-70

Aug 1968 464.9 C47

Chemical analysis, Endothion, Methodology, Pesticide analysis.

11705-69

RECOMMENDED ANALYTICAL METHODS FOR PESTICIDES. 39. METHODS OF ANALYSIS FOR TECHNICAL AND FORMULATED TRICHLORFON.

Anonymous

China Plant Protect Bull 16(4):68-69

Aug 1968 464.9 C47

Chemistry, Methodology, Pesticide analysis, Trichlorfon.

11706-69

AN ELECTRON-CAPTURE GAS CHROMATOGRAPHIC METHOD FOR THE DETERMINATION OF SUBSTITUTED UREA AND CARBAMATE HERBICIDES AS 2,4-DINITROPHENYL DERIVATIVES OF THEIR AMINE MOIETIES.

I C Cohen B B Wheals

J Chromatography 43(2):233-240 REF

19 Aug 1969 475 J824

Amines, Carbamates, Chemical analysis, Chromatography, Electron capture, Herbicide residues, Urea.

CHEMISTRY

11707-69

11707-69

SYNTHESIS AND PESTICIDAL ACTIVITY OF PHENAZINES II--ALKYL, ALKOXY, ALKYLTHIO AND ALKYL-SULPHONYL PHENAZINES.

B Cross C L Dunn D H Payne J D Tipton

J Sci Food Agr 20(6):340-344

Jun 1969 382 SO12

Acaricides, Biological assay, Chemical analysis, Fungicides, Mites, Pesticides, Synthesis.

11708-69

THIN-LAYER CHROMATOGRAPHIC IDENTIFICATION OF THIRTEEN MEDICINALLY IMPORTANT CARBAMATES.

T W M Davis

J Chromatography 29(1):283-287

Jul 1967 475 J824

Carbamates, Chromatography.

11709-69

EXPANDED UTILITY OF THE BEILSTEIN FLAME TEST FOR ORGANICALLY BOUND HALOGENS AS A SENSITIVE AND SPECIFIC FLAME PHOTOMETRIC DETECTOR IN THE GAS CHROMATOGRAPHIC DETERMINATION OF R-X COMPOUNDS AS ILLUSTRATED WITH ORGANOCHLORINE PESTICIDES.

F A Gunther A Lopez-Roman R I Asai W C

Westlake

BIBLIOGRAPHY

Bull Environ Contamination Toxicol 4(4 JUL-AUG):202-213 REF

Aug 1969 RA1270.P35A1

Chemical analysis, Chlorinated hydrocarbons, Chromatography, Halogens, Methodology, Pesticide residues, Photometry.

11710-69

DIRECT DETECTION OF IONIZABLE HERBICIDES BY ELECTROPHORESIS.

R Purkayastha

Bull Environ Contamination Toxicol 4(4 JUL-AUG):246-255

Aug 1969 RA1270.P35A1

Amiben, Chemical analysis, Chlorinated hydrocarbons, D, 2,4-, Dicamba, Electrophoresis, Herbicides, Methyl-4-chlorophenoxyacetic acid, 2-, Picloram, T, 2,4,5-

15(2):160-162

Jun 1969 423.92 G798

Chemical control (weeds), Herbicides, Spraying equipment, Weed control.

11712-69

CONTROLLED SOIL PERFUSION WITH A MULTI-CHANNEL PERISTALTIC PUMP.

S J L Wright C G Clark

Weed Res 9(1):65-68

Mar 1969 79.8 W412

Herbicide residues, Laboratory equipment, Soil analysis.

INDUSTRY

ECONOMICS

11713-69

THE COMPREHENSIVE REGULATION OF PESTICIDES.

Anonymous

Nat Agr Chem Ass News Pesticide Rev 27(2):8

Dec 1968 421 AG8

Accident prevention, Agricultural research, Marketing, Regulation (pesticides).

ENGINEERING

11711-69

A SIMPLE, CHEAP EXPERIMENTAL SPRAYER.

L Kasasian

Pans (pest Articles News Sum) Sect A Insect Contr

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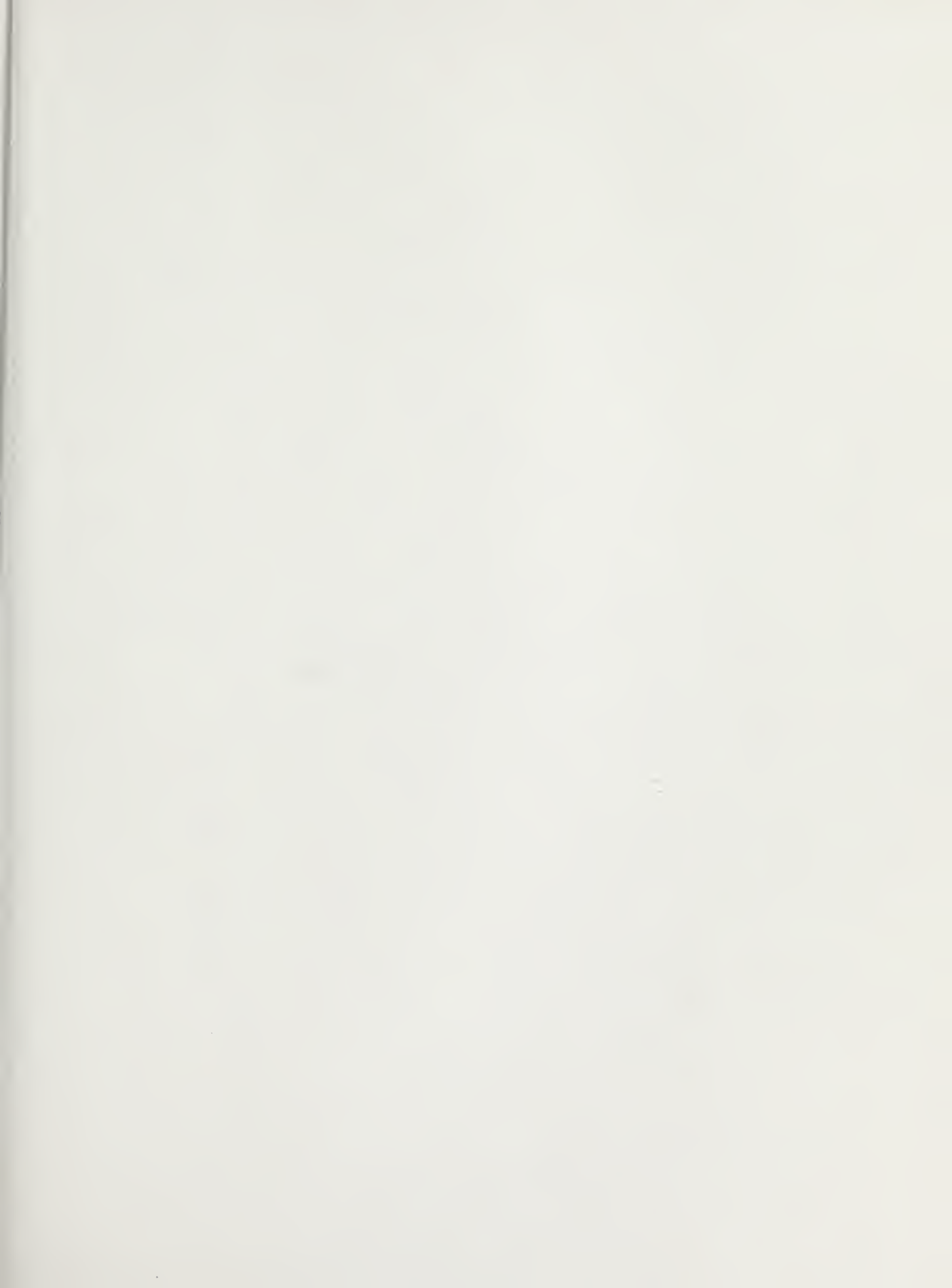
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