

VOLUME 21 NUMBER 2 JUNE 1985

Journal of STORED PRODUCTS RESEARCH

Senior Editor: C E DYTE
Regional Editors: B R CHAMP
E G JAY
P F PREVETT



PERGAMON
Oxford New York Toronto Sydney Frankfurt

This journal provides an international medium for the publication of original research results from laboratory and field studies dealing with the biology, ecology, physiology, behavior, taxonomy, genetics or control of the insects, mites, fungi, and other organisms associated with stored products. It also covers studies on the physical and chemical nature of the stored product environment which have relevance to these organisms and their control. The *Journal of Stored Products Research* reflects the increasing interest in the scientific problems of infestation in stored food and their relevance to the world food shortage.

Subscription Information

Published quarterly (Volume 23)
Annual subscription (1987)
Two-year rate (1987/88)

DM400.00
DM760.00

FREE SAMPLE COPIES AVAILABLE ON REQUEST

JOURNAL OF STORED PRODUCTS RESEARCH

Editor: C E DYTE, *Pest Infestation Control Laboratory, Ministry of Agriculture Fisheries & Food, London Road, Slough, Berkshire, UK*

A selection of papers

Microflora changes in peanuts (groundnuts) stored under modified atmospheres, D M WILSON *et al.*
Response of malathion-susceptible and resistant strains of *Tribolium castaneum* (Coleoptera: Tenebrionidae) to a combination of ⁶⁰CO gamma irradiation and malathion, E ADEM & F L WATTERS.
Orange-eye: a sex-linked recessive mutation in *Ephestia cautella* (Walker) (Lepidoptera: Pyralidae), Z S AL-HAKKAK *et al.*

Effects of three temperature regimes on rearing and biological activities of *Bracon hebetor* (Say) (Hymenoptera: Braconidae), M S H AHMED *et al.*

The influence of relative humidity on larval development and energy content of *Galleria mellonella* (L.) (Lepidoptera: Pyralidae), G CHAUVIN & J CHAUVIN.
Infestation of dried cassava (*Manihot esculenta* Crantz) by *Prostephanus truncatus* (Horn) (Coleoptera: Bostrichidae), R J HODGES *et al.*

Moisture influence on fungal growth in black pepper, V P SREEDHARAN *et al.*
The relationship between moisture content and equilibrium relative humidity of pig feed, S HENDERSON.

Alkaloid losses from the capsules of *Papaver somniferum* L. during kiln drying and storage under commercial conditions in Tasmania, P J HOFMAN & R C MENARY.

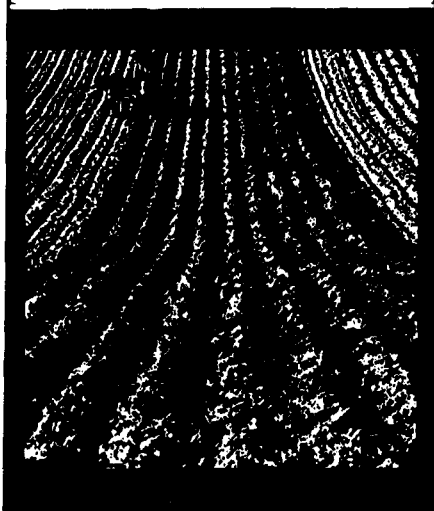
Advertising rate card available on request.
Back issues and current subscriptions are also available in microform.
Prices are subject to change without notice. The Deutsche Mark prices shown are definitive and include postage and insurance. Please enquire for equivalent prices in other currencies.



Pergamon

Headington Hill Hall, Oxford OX3 0BW, UK
Fairview Park, Elmsford, New York 10523, USA

IC 16 7 86



SOIL BIOLOGY & BIOCHEMISTRY

Executive Editor: J S WAID,
*Department of Microbiology,
La Trobe University, Bundoora,
Victoria 3083, Australia*

Soil Biology & Biochemistry acts as an outlet for research studies on soil organisms, their biochemical activities, and their influence on the soil environment and plant growth. Original work is presented on quantitative, analytical and experimental aspects of such studies, providing a record of the progress of these studies throughout the world. The scope of the journal is wide and embraces accounts of original research into the biology, ecology and biochemical activities of all forms of life that exist in the soil environment. Relevant papers, as well as review articles, are welcomed for editorial consideration.

A selection of papers

Soil microbiology biomass estimates in soils contaminated with metals, P C BROOKES *et al.*
Input of carbon to soil from wheat plants, H KEITH *et al.*
Vesicular-arbuscular mycorrhiza: influence on plant uptake of cesium and cobalt, R D ROGERS & S E WILLIAMS.
Estimation and decomposition pattern of the lignin component in forest humus layers, I KOGEL.
Differences in susceptibility of sclerotia of *Rhizoctonia solani* Kuhn to *Trichoderma* sp., T NAIKI.
Recycling of fecal pellets in isopods, T GUNNARSON & A TUNLID.
Nodule distribution on legume roots, S C PUEPPKE.
Sampling soil microfloras, R M MACDONALD.
Microbial biomass and maize nitrogen uptake, K MULONGOY.

Subscription Information

Published bi-monthly (Volume 19)
Annual subscription (1987)
Two-year rate (1987/88)

DM660.00
DM1254.00

FREE SAMPLE COPIES AVAILABLE ON REQUEST

Advertising rate card available on request.
Back issues and current subscriptions are also available in microform.
Prices are subject to change without notice. The Deutsche Mark prices shown are definitive and include postage and insurance. Please enquire for equivalent prices in other currencies.



Pergamon

Headington Hill Hall, Oxford OX3 0BW, UK
Fairview Park, Elmsford, New York 10523, USA

vol. 15 no. 4

International Parasitology

contents

	Parasitological Calendar	124
	Parasitological Societies of the World	129
D. BAKER, P. SUTHERLAND and P. J. HENDERSON	Influence of primary infection on the population dynamics of <i>Nematostomum dibaoi</i> (Trematode: Platyhelminthes) in mice	133
S. A. LEECH	Experimental observations on the transmission of <i>Schistosoma margrebowiei</i> (Trematode)	141
G. BAKER, J. J. HARRIS and G. T. HARRIS	Morphological studies on the early development of <i>Taenia taeniiformis</i> larvae in susceptible mice	153
J. BERTHOUD, M. C. GIBBONS and G. T. HARRIS	Damage and early destruction of <i>Taenia taeniiformis</i> larvae in resistant hosts and abnormal development in susceptible hosts: a light microscopic and ultrastructural study	177
P. RAYNES, K. RAVENHILL, R. T. W. HANSEN and D. W. HARRIS	Microhabitats of gill parasites (<i>Mnemiopsis</i> and copepods) of teleosts (<i>Scorpaenidae</i> spp.)	185

PERGAMON PRESS, OXFORD, ENGLAND
ISSN 0020-7519
COPYRIGHT © 1988 BY PERGAMON PRESS LTD

Pergamon

INTERNATIONAL JOURNAL FOR PARASITOLOGY

Sponsored by the Australian Society for Parasitology

Editor-in-Chief: J F A SPRENT,
Department of Parasitology, University of Queensland, St Lucia, Brisbane, Queensland 4067, Australia

The *International Journal for Parasitology* serves as a medium for communication of scientific contributions in the field of parasitology at an international level. It publishes original research papers dealing with parasites, parasitism and parasitic infection.

Other features include points in question (a forum for parasitologists), centenary biographical notes, obituaries, lists of parasitological societies throughout the world, and a parasitological calendar listing forthcoming meetings and symposia related to parasitology. Relevant papers are welcomed for editorial consideration.

Subscription Information

Published bi-monthly (Volume 17)
Annual subscription (1987)
Two-year rate (1987/88)

DM890.00
DM1691.00

FREE SAMPLE COPIES AVAILABLE ON REQUEST

A selection of papers

An association between a lymphocyte antigen in sheep and the response to vaccination against the parasite *Trichostrongylus colubriformis*, P M OUTERIDGE *et al.*

Aspects of the life cycle of *Schistosoma margrebowiei* infection in laboratory mammals, M G OGBE.

Digestion in the cattle-tick *Boophilus microplus*: light microscope study of the gut cells in nymphs and females, R I S AGBEDE & D H KEMP

Effect of interferon on the infectivity of *Trypanosoma cruzi* in cultured HeLa cells, A OSUNA *et al.*

Hepatic microsomal alterations during *Dipetalonema viteae* infection in *Mastomys natalensis*, A K SRIVASTAVA *et al.*

Initial characterisation of the sheep immune response to infections of *Lucilia cuprina*, R M SANDEMAN *et al.*

Hepatic mast cells in rats infected with *Taenia taeniaeformis*, M C LINDSAY & J F WILLIAMS.

Gametogenesis in *Plasmodium*: the inhibitory effects of anticytoskeletal agents, R E SINDEN *et al.*

Advertising rate card available on request.
Back issues and current subscriptions are also available in microform.
Prices are subject to change without notice. The Deutsche Mark prices shown are definitive and include postage and insurance. Please enquire for equivalent prices in other currencies.



Pergamon

Headington Hill Hall, Oxford OX3 0BW, UK
Fairview Park, Elmsford, New York 10523, USA

1A 17 7 86

Insect Science and its Application

The International Journal of Tropical Insect Science

Contents—continued from outside back cover]

J. H. NDERITU and J. M. MUEKE	667	Field evaluation of foliar and soil insecticides for the control of <i>Aphis gossypii</i> Glover (Homoptera:Aphididae) on potatoes in Kenya
J. H. NDERITU and J. M. MUEKE	677	Aphid infestation on eight potato cultivars (<i>Solanum tuberosum</i> L.) in Kenya
S. L. O. MALAKA	683	Carbohydases in the alimentary canal of <i>Amitermes evuncifer</i> Silvestri (Isoptera:Termitidae:Termitinae)
<i>Review of Journal</i>	687	
<i>Announcement</i>	i	
<i>New Patents</i>	ii	
<i>Editorial: Software Survey Section</i>	I	
<i>Questionnaire</i>	II	

Insect Science and its Application

The International Journal of Tropical Insect Science

VOLUME 7 NUMBER 5

1986

CONTENTS

- B. U. SINGH and B. S. RANA 577 *Mini Review Article*
Resistance in sorghum to the shootfly, *Atherigona soccata* Rondani
- M. E. H. SHAZALI 589 *Research Articles*
The potential rate of increase of *Corcyra cephalonica* (Staint.) on sorghum
- T. C. BANERJEE, N. HAQUE and A. K. MAHAPATRA 593 Influence of rice crop, climate and lunar cycles on the population patterns of *Scirpophaga nivella*
- P. R. YADAV and DINESH KUMAR 599 Studies on electrophoretic protein patterns of fat body, haemolymph and ovary in an Indian fresh water-bug, *Laccotrephes rubra* Linn. (Nepidae:Heteroptera)
- J. BAHANA and G. KARUHIZE 605 The role of *Diaeretiella rapae* (M'cintosh) (Hymenoptera: Braconidae) in the population control of the cabbage aphid, *Brevicoryne brassicae* L. (Hemiptera: Aphididae) in Kenya
- R. P. SHUKLA 611 Spatial pattern of egg plant shoot and fruit borer, *Leucinodes orbonalis* Guen. (Lepidoptera: Pyraustidae) larvae
- L. CHUKA MADUBUNYI 617 Laboratory life history parameters of the red-tailed fleshfly, *Sarcophaga haemorrhoidalis* (Fallen) (Diptera: Sarcophagidae)
- GEORGE N. MBATA 623 Combined effect of temperature and relative humidity on mating activities and commencement of oviposition in *Plodia interpunctella* (Hubner) (Lepidoptera: Phycitidae)
- Y. MUMCUOGLU, R. GALUN and R. IKAN 629 The aggregation response of human body louse (*Pediculus humanus*) (Insecta: Anoplura) to its excretory products
- AHLAM A. ALFAZAIRY 633 The pathogenicity of *Bacillus thuringiensis* isolated from the casuarina stem borer, *Stromatium fulvum* Vill. (Coleoptera: Cerambycidae) for larvae of two species of mosquitoes
- T. R. AHMAD and A. A. KHADHUM 637 Influence of pheromone trap design and placement on capture of peach twig borer, *Anarsia lineatella* (Zeller) (Lepidoptera: Gelchiidae)
- F. M. MWEGA 641 Socio-economic issues in the control of East Coast Fever (ECF) with particular reference to Kenya
- A. K. CHAKRAVARTHY and A. S. SIDHU 647 Resistance to insect pest damage in four cotton varieties in Ludhiana
- R. H. DWINGER, MAX MURRAY and S. K. MOLOO 653 Skin hypersensitivity to bites of *Glossina morsitans centralis* in goats
- AJIBOLA M. DARAMOLA 659 The development of *Dysdercus voelkeri* on three new sorghum varieties and assessment of its damage to grains
- R. W. PIMLEY 663 Toxicity of chlordimeform to the tsetse fly *Glossina morsitans*

[continued on inside back cover]

Insect Sci. Applic. is Indexed/Abstracted in
Current Contents, CABS, BIOSIS Database, PASCAL-CNRS Database.

ISSN 0191-9040
ISIADL 7(5) 577-688 (1986)