



INSECT BIOCHEMISTRY

Editor: L I GILBERT, *Wilson Hall
046A, The University of North
Carolina, Chapel Hill, NC 27514,
USA*

Insect Biochemistry publishes original contributions in the field of insect biochemistry including papers on:

- * Neurochemistry
- * Hormone and pheromone biochemistry
- * Histochemistry
- * Development and tissue culture of insect systems

Papers on the biochemistry of other groups of arthropods are published if of general interest, while papers describing new techniques and methods may be accepted if they contribute to the solution of biochemical problems.

Subscription Information

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Combined Subscription

A combined subscription is also available with the

Journal of Insect Physiology:

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US\$650.00

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A selection of papers

Minor aminopeptidases purified from the plasma membrane of midgut caeca cells of an insect (*Rhynchosciara americana*) larva, C FERREIRA & W R TERRA.

The brain adenylate cyclase system of the tobacco hornworm, *Manduca sexta*: putative control by biogenic amines, W L COMBEST et al.

A novel procedure for the purification of apolipoprotein III, M A WELLS et al.

Relative hemolymph juvenile hormone binding capacity during larval, pupal and adult development in *Manduca sexta*, W G GOODMAN.

Comparison of protein patterns in cockroach muscles innervated by fast or slow neurons, B BERMAN et al.

Makisterone A: the major ecdysteroid from the pupa of the honey bee, *Apis mellifera*, M F FELDLAUFER et al.

Immunohistochemical and biochemical localization of trehalase in the developing ovaries of the silkworm, *Bombyx mori*, M AZUMA & O YAMASHITA.

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1A/29/8/85

JOURNAL OF INSECT PHYSIOLOGY

JOURNAL OF INSECT PHYSIOLOGY

Executive Editors: L STRONG and
R de G WEEVERS, *Department of
Zoology, University of Bristol,
Bristol BS8 1UG, UK*

The *Journal of Insect Physiology* serves as a focus for research on all aspects of insect physiology. The journal publishes papers covering a wide variety of aspects of the physiological mechanisms in insects, although closely related topics in other groups of arthropods will be accepted if they are of general interest. Amongst the fields covered are endocrinology, pheromones, neurobiology, physiological pharmacology, nutrition, homeostasis and reproductive processes of insects. Anatomical papers and reports on new techniques and methods are also published where they contribute to the solution of physiological problems.

Software Survey Section — This new section reports developments in appropriate specialist software.

Subscription Information

Published monthly (Volume 32)

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Two-year rate (1986/87)

US\$420.00

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A selection of papers

Role of juvenile hormone in regulating tyrosine glucoside synthesis for pupal tanning in *Manduca sexta* (L.), R F AHMED *et al.*

The effects of chemical and physical stress on the concentrations of amino compounds in the haemolymph and nervous system of locusts and cockroaches, A JABBAR & R H C STRANG.

The effect of temperature on energy distribution during the last-larval stadium of the female house cricket, *Acheta domesticus*, R M ROE *et al.*

Influence of sex and dietary fat on the group effect in larvae of *Acheta domesticus* (L.), J E McFARLANE & I ALLI. Entry of proteins from degenerating flight muscles into oocytes in *Dysdercus cingulatus*, C R M NAIR & V K K PRABHU. Plurisegmental neurones of the cricket *Gryllus campestris* L. that discharge in the rhythm of its own song, D OTTO & T WEBER.

Circadian range of entrainment in the semilunar eclosion rhythm of the marine insect *Clunio marinus*, D NEUMANN & F HEIMBACH.

X-ray microanalysis of cockroach fat body in relation to ion and water regulation, A D HYATT & A T MARSHALL.

Role of beta-alanine in cuticular tanning, sclerotization, and temperature regulation in *Drosophila melanogaster*, M E JACOBS.

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Journal of
Thermal Biology

JOURNAL OF THERMAL BIOLOGY

Editors: K BOWLER, *Department of
Zoology, University of Durham,
Durham DH1 3LE, UK* and
J E HEATH, *Department of
Physiology and Biophysics,
University of Illinois, Urbana, IL
61801, USA*
Assisted by an Editorial Board

The journal publishes results of work in which the central theme is the mechanisms by which temperature affects living organisms. It is wide in scope and includes studies at the biochemical and physiological level and also at the level of the organism. The following are examples of the subject areas covered:

- * The mechanisms of cellular heat and cold injury, and of the resistance of organisms to extremes of temperature.
- * Behavioural and physiological regulation of body temperature.
- * Review articles.

A selection of papers

Thermal acclimation and oxygen consumption rates in neotenic grey-belly salamanders, *Eurycea multiplicata* griseogaster (Plethodontidae), from an Arkansas cave, C T MCALLISTER & L C FITZPATRICK.

Application of a weighing system for measuring total evaporative water losses in large ruminants, C R HOLMES.

Body size and the control of heat exchange in alligators, J S TURNER & C R TRACY.

Light-dark variations of oxygen consumption and subcutaneous temperature in young *Gallus domesticus*: influence of ambient temperature and depilation, H MICHELS *et al.*

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Published quarterly (Volume 11)

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US\$120.00

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US\$228.00

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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.

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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*

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.*

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INTERNATIONAL JOURNAL OF INSECT MORPHOLOGY & EMBRYOLOGY

Editor-in-Chief: A P GUPTA,
*Department of Entomology and
Economic Zoology, Rutgers
University, New Brunswick,
NJ 08903, USA*

The journal will publish original contributions on all aspects of gross morphology, paleomorphology, macro- and microanatomy, ultrastructure, functional and experimental morphology, and embryonic and post-embryonic development, including experimental embryology of insects; and similar studies of other related arthropods, which have direct bearing on our understanding of insect morphology and embryology. In addition, reviews developing new concepts, hypotheses and theories, and a limited number of notes and book reviews will be published.

Software Survey Section — This new section reports developments in appropriate specialist software.

Subscription Information

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US\$205.00
US\$389.50

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A selection of papers

Ultrastructure of the cerebral glands in *Scolopendra cingulata* Latr; *Cryptops savignyi* Leach and *C. hortensis* (Myriapoda: Scolopendromorpha), M DESCAMPS & R JOLY.

Primary sensory projections from the labella to the brain of *Drosophila melanogaster* Meigen (Diptera: Drosophilidae), S V NAYAK & R NARESH SINGH.

Ultrastructure and cytochemistry of the fat body of *Periplaneta americana* (Dictyoptera: Blattellidae), A D HYATT & A T MARSHALL.

Fine structure of the sensory organs of *Drosophila melanogaster* Meigen larva (Diptera: Drosophilidae), R NARESH SINGH & K SINGH.

Microstructures cuticulaires et récepteurs sensoriels des larves de *Sepdon spegea* (F) (Diptera: Sciomyzidae), C GASC *et al.*

Anatomy and histology of the male reproductive system of the fire ant, *Solenopsis invicta* Buren (Hymenoptera: Formicidae), D E BALL & S B VINSON. Differences in numbers of sensilla on the antennae of solitary and gregarious *Locusta migratoria* L. (Orthoptera: Acrididae), M GREENWOOD & R F CHAPMAN.

Ultrastructure of the bulla seminalis in *Cadra cautella* Walker (Pylalidae: Lepidoptera), P T M LUM.

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