

Insect Science and Its Application

The International Journal of Tropical Insect Science

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2. Papers should be in English or French, and be original contributions in the field of tropical insect science. Each paper should have a summary in the form of an Abstract in both English and French.

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6. The manuscript should contain the following features:

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Introduction: This should contain a brief survey of the relevant literature and the reasons for doing the work.

Materials and Methods: Sufficient information should be given to permit repetition of the experimental work. The technical description of methods should be given only when such methods are new.

Results: These should be presented concisely. Only in exceptional cases will it be permissible to present the same set of results in both a Table and a Figure. The results section should not be used for discussion.

Discussion: This should be separate from the results section and should deal with the significance of the results and their relationship to the object of the work. Comparison with relevant published work should be made and conclusions drawn.

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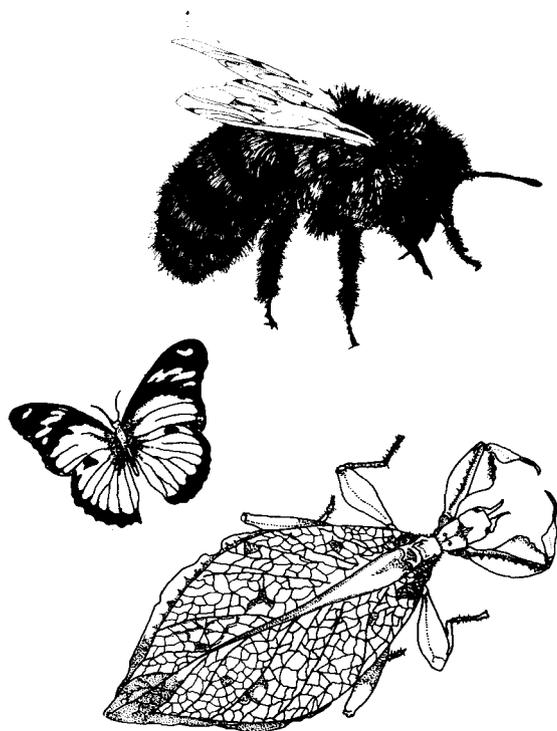
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R Beach: **Physiological changes governing the onset of sexual receptivity in male mosquitoes.**
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R L Dean *et al*: **Haemolymph ecdysteroid levels and cellular events in the intermolt/moult sequence of *Calpodes ethlius*.**

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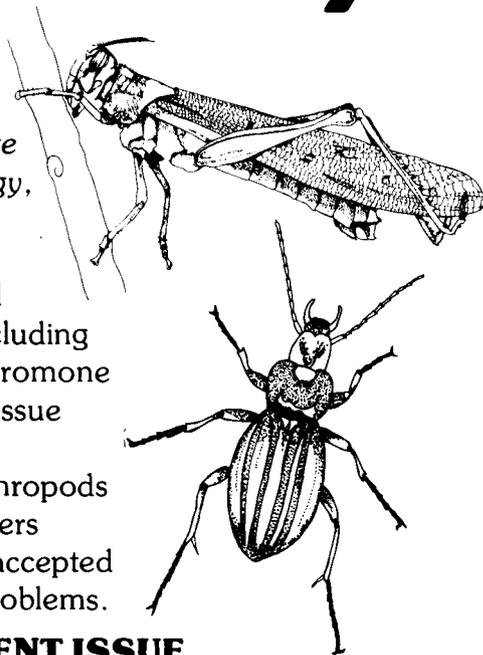
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CONTENTS OF A RECENT ISSUE

R J Weaver et al,

The influence of incubation conditions on the rates of juvenile hormone biosynthesis by corpora allata isolated from adult females of the beetle *Tenebrio molitor*.

C Detwiler and R J Macintyre,

A subcellular localization of the gene product of the DNase-1 locus in *Drosophila melanogaster*.

T W Jordan, C K Chang and J N Smith,

Factors affecting the metabolism, distribution and excretion of aromatic acids in *Periplaneta americana* and *Acanthoxyla intermedia*.

D C McCaleb, G Reddy and A K Kumaran,

Some properties of the haemolymph juvenile hormone esterases in *Galleria mellonella* larvae and *Tenebrio molitor* pupae.

S J Kramer, E C Mundall and J H Law,

Purification and properties of manducin, an amino acid storage protein of the haemolymph of larval and pupal *Manduca sexta*.

S Tojo, M Nagata and M Kobayashi,

Storage proteins in the silkworm, *Bombyx mori*.

E Weeda, C A D de Kort and

A M Th Beenackers,

Oxidation of proline and pyruvate by flight muscle mitochondria of the Colorado beetle, *Leptinotarsa decemlineata* Say

G J Blomquist, A J Chu and S Remaley,

Biosynthesis of wax in the honeybee, *Apis mellifera* L.

M Krzyzanowska and W Niemierko,

Purines and uric acid riboside in the ligated larvae of *Galleria mellonella* L.

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Esterases in larval tissues of gypsy moth, *Lymantria dispar* L.: optimum assay conditions, quantification and characterization.

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

Aims and Scope

The journal publishes original contributions on all aspects of the gross morphology, paleo-morphology, macro- and microanatomy and ultrastructures of insects, and similar studies of other related arthropods, which have direct bearing on our understanding of insect morphology.

In addition to descriptive embryologic and post-embryologic papers, the Journal will accept reviews developing new concepts, hypotheses and theories, and a limited number of notes and book reviews. Papers in German and French will be published on a restrictive basis.

A Selection of Recent Papers

External morphology of some eggs of stored-product moths (Lepidoptera: pyralidae, gelechiidae, tineidae), **R T Arbogast, G L LeCato and R Van Byrd**

Ultrastructure of the filter chamber complex in the alimentary canal of *Eurymela distincta* signoret (Homoptera, eurymelidae), **K L Lindsay and A T Marshall**

Integumental ultrastructure of the desert millipede, *Orthoporus ornatus* (Girard) (Diplopoda: spirostreptidae), **L J Walker and C S Crawford**

Ultrastructure comparée des glandes exocrines abdominales des blattaria (Dictyoptera), **R Brossut et L Sreng**

The differentiation of pseudonurse cells in the ovaries of fs231 females of *Drosophila melanogaster* Meigen (Diptera:drosophilidae), **C K Dabbs and R C King**

Scientific Note

Ultrastructure of setae in the spermathecal gland of *Plodia interpunctella* (Hübner) (Lepidoptera: Pyralidae), **P T M Lum and R T Arbogast**

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Insect Science and its Application deals comprehensively with all aspects of scientific research targeted on tropical insects (and related arthropods), and the application of new discoveries to such diverse fields as pest and vector management and the use of insects for human welfare.

A distinctive feature of the journal is its multi- and interdisciplinary nature, which transcends the traditional boundaries of entomology.

Its second feature is its concentration on the recording and reviewing of the progress of insect science in the tropical and sub-tropical regions of the world. Thus, without excluding any area of the wide field encompassed by insect science, the journal will accept manuscripts in environmental physiology, the regulation of development and reproduction, population modelling, chemical ecology, natural products chemistry, plant resistance, host/insect relations, behaviour of tropical pest species, epidemiology of tropical diseases, vector biology, pest and vector management research, entomo-meteorology, insects in relation to farming systems, forest entomology, insect pathology, social insects and arthropods, and the uses of insects. It is the intention of the Editors to have manuscripts published rapidly, consistent with the needs of quality control.

In addition to articles of original research, the journal also publishes book reviews, announcements and reports of meetings and mini-reviews. Each regular issue of the journal contains a short review article on a critical or rapidly developing area of tropical insect science; normally the Editors will have invited an author to contribute such a mini-review.

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