

# Recent Developments in Insect Neurohormones



Marie Raabe

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**P. J. Gullan, P. S. Cranston**



## **Recent Developments In Insect Neurohormones:**

Recent Developments in Insect Neurohormones M. Raabe, 2012-12-06 The most striking fact revealed by investigations of insect neurohormones is that insects are as well supplied with neurohormones as mammals since neurohormones regulate not only the functioning of the endocrine glands prothoracic gland and corpora allata but also most physiological processes Our knowledge of neurohormones developed originally from anatomocytological investigations and experimental studies Today accurate bio assays have been devised for studying both in vivo and in vitro physiological processes and RIA determination has yielded knowledge of titer modifications of humoral factors Much is also known about neurohormone purification and several neurohormones have even been identified in different species Immunocytochemistry has made it possible to demonstrate in their origin and release sites the presence of insect neurohormones whose structure has been elucidated Moreover the presence of vertebrate and invertebrate neuropeptides has been demonstrated in insects As regards biogenic amines methods of detection have been greatly refined and it is now possible to identify the cell bodies and axons of the main biogenic amines Other new methods such as cobalt chloride impregnation or Lucifer yellow staining have revealed the axonal pathways and the location of particular neurons The mechanisms of action of neurohormones have been investigated in several cases and the results of these investigations will be related in the chapters which follow Hormones and Metabolism in Insect Stress Jelisaveta Ivanovic, 2018-01-31 This book discusses the effects of both natural e.g. temperature humidity and lack of food and man induced stressors e.g. pollution on insects Insect neurohormones and metabolism are emphasized although all aspects of insect biology are examined The role of ecdysteroids and juvenile hormones in response to thermal and other stressors is featured and population studies in insect stress are presented Entomologists ecologists ecophysiologicalists physiologists applied entomologists and others will find Hormones and Metabolism in Insect Stress an important reference resource **Advances in Insect Physiology**, 2009-10-14 *Advances in Insect Physiology* publishes volumes containing important comprehensive and in depth reviews on all aspects of insect physiology It is an essential reference source for invertebrate physiologists and neurobiologists entomologists zoologists and insect biochemists First published in 1963 the serial is now edited by Steven Simpson and Jerome Casas to provide an international perspective This volume is a thematic volume focusing on locust phase polyphenism Contributions from the leading researchers in entomology Discusses the physiological diversity in insects Includes in depth reviews with valuable information for a variety of entomology disciplines *Insect Neuroendocrines* V.B. Awasthi, 2005-04-01 The aim of the author has been to present an account of the neuroendocrine system of insects the super importance of which is well established and also to provide information as far as possible directly through the ultrastructural illustrations Besides an account of some of the hormonally controlled phenomena of vital significance is given It is hoped that the theoretical account and a large number of ultrastructural illustrations of some of the prominent pioneer authors included in the book will provide

ample information to the post graduate students and research scholars of insect neuroendocrinology as well as to those engaged in carrying out researches on comparative endocrinology insect ethology cell biology and developmental biology in various universities and acquaint them well with almost all the components of the neuroendocrine system in the active inactive and various developmental stages alongwith ultrastructural changes occurring in the cells and their organelles that are associated with specific functions I do hope that the book will stimulate the readers and serve as a text book cum basic research monograph on the subject The book also contains a list of selected bibliography for a detailed study      **Recent Advances in Insect Endocrine Research** ,1995      Insect Pheromone Research R.T. Carde,A.K. Minks,2012-12-06 This book contains the proceedings of the First International Symposium on Insect Pheromones which was held at Wageningen The Netherlands from March 6 to March 11 1994 Eighty participants from 17 countries attended the symposium which turned out to be a unique forum for the exchange of the latest worldwide findings on insect pheromones an opportunity to discuss and debate unsettled issues and a mechanism to define new directions in pheromone research and foster interdisciplinary collaborations The meeting comprised five sessions representing the breadth of disciplinary interest in pheromones a typical characteristic of this research area In the sessions the following topics were presented 1 control of pheromone production organized by W L Roelofs 2 sensory processing of pheromone signals T L Payne 3 neuroethology of pheromone mediated responses T C Baker 4 use of pheromones in direct control A K Minks and R T Card6 and 5 evolution of pheromone communication c LOfstedt All sessions started with a series of 30 minute lectures after which ample time was reserved for discussion In each session some participants were asked to serve as discussants and to initiate and stimulate discussion and a rapporteur was recruited to make notes of these discussions and to summarize the general trends emerging from the session The general program ming of the symposium was in the hands of R T Carde A K Minks and T L Payne

*Handbook of Natural Pesticides* N. Bhushan Mandava,2019-01-15 This handbook series includes several naturally occurring chemicals that exhibit biological activity These chemicals are derived from plants insects and several microorganisms Volume I of this series is covers the theory and practice of the strategies for pest control and methods for detection Moreover it presents extensive tables that provide the information you need to select the most appropriate bioassay for a particular plant growth regulator or hormone In addition to the chapters on bioassays Volume I provides a solid introduction to the theory and practice of natural pesticide use including in depth discussions of integrated management systems for weed and pest control the state of the art use of computers in pest management and allelochemicals as natural protection Guidelines on toxicological testing and EPA regulation of natural pesticides are also detailed      **Hemolymph Proteins and Functional Peptides** Muhammad Tufail,Makio Takeda,2012 Recent molecular studies have revealed an overwhelming role of hemolymph proteins and functional peptides in invertebrate physiology This is mainly due to the large assortment of biomolecular factors each with a different structure and function In addit      *Insect Neurohormones* Marie

Raabe,2012-12-06 The discovery of insect neurohormones dates from the earliest experimental investigations in insect endocrines and the matter cannot be discussed without evoking the names of its pioneers Kopec Wigglesworth Fraenkel Whereas the experiments demonstrated the existence of the first known neurohormones the formulation of the concept of neurosecretion was of fundamental importance to further progress and tribute must be paid to Ernst and Berta Scharrer The recent proliferation of investigations into insect neurohormones has created the need for an overall review of the data Our knowledge of the subject is voluminous and the evidence clearly demonstrates that neurohormones play a part in most insect regulatory processes This book analyzes and synthesizes the data starting from neurosecretion i e source sites and release modes of neurohormones and continuing through the various functions in which neurohormones have been shown to be involved endocrine gland activity diapause reproduction visceral muscle functioning color change behavior water and ion balance protein sugar and lipid metabolism and tanning and other processes occurring at the cuticle level In each chapter besides the experimental information technical procedures as well as recent information concerning purification of the particular neurohormones and their mode of action are reported Numerous exhaustive tables allow the reader to get an overview of the matter while the major findings of the moment are presented in the conclusion of each chapter **Insect Neurochemistry and Neurophysiology**

Alexej B. Borkovec,2019-08-08 This book represents proceedings from ICINN 1993 and comprises papers on nerve function neurotransmitters ion channels second messengers and neuropeptides By using a variety of techniques combining aspects of neurophysiology pharmacology immunology peptide separation and sequencing or molecular biology it has become possible to study systems in greater detail and complexity than before **Insect Neurochemistry and Neurophysiology · 1989 ·**

A. B. Borkovec,Edward P. Masler,2012-12-06 This volume contains the proceedings of the Third International Conference on Insect Neurochemistry and Neurophysiology ICINN 89 which was held at the University of Maryland at College Park Maryland on July 10-12 1989 The ICINN meetings were initiated in 1983 at a time when insect neurobiology was emerging as a vigorous sector of entomology requiring a degree of attention and autonomy long before granted to its sister field vertebrate neurobiology The distinctly medical aspects of the latter were replaced by potentialities for developing new approaches to insect control and the difference was reflected in the kind of sponsorship that has made the ICINNs possible It is to the credit of the sponsors of the present conference i e Agricultural Research Service US Department of Agriculture American Cyanamid BASF Dow Chemical USA E I DuPont de Nemours Monsanto Nippon Soda Rohm and Haas and Sandoz Crop Protection that they recognized the need for providing a forum for specialized scientific presentations as well as a medium by which ideas and information could be exchanged directly and cooperation could be planned As in the previous conferences in 1983 and 1986 the ICINN 89 program contained state of the art plenary lectures or reviews by invited speakers as well as shorter research communications presented orally or as posters The latter two are included here in three sections neuroanatomy neurochemistry and neurophysiology *Recent*

*Advances in Insect Physiology and Toxicology* G. T. Gujar, 1994 Festschrift honoring K N Kailash Narain Mehrotra b 1930 former head of the Entomology Division of Indian Agricultural Research Institute New Delhi upon his retirement in 1990 comprises contributed research papers on insect physiology and toxicology Microbial Biopesticides Opendar Koul, G. S. Dhaliwal, 2001-10-25 Biotechnological research has provided key developments in pest control agents focusing on pathogens of insect pests as formulated biological pesticides Emphasis has been placed on bacteria and viruses as they are well understood and easily manipulated Microbial Biopesticides provides a comprehensive overview of the advances made in the use of b *Agriculture rural development, and related agencies appropriations for fiscal year 1991* United States. Congress. Senate. Committee on Appropriations. Subcommittee on Agriculture, Rural Development, and Related Agencies, 1990

**Insect Reproduction** S. R. Leather, 2018-01-18 This book consisting of ten review chapters contributed by leading workers in their respective fields from around the world covers the whole subject of insect reproduction It begins with the basic physiological questions of insect reproduction moves on to discuss the new advances seen in the fields of behavioural and ecological mechanisms and culminates by examining the recent work on evolutionary biology and its application in the field Each chapter although including a brief review of the basic seminal work focuses mainly on the advances made within the last ten years and highlights those areas in which the respective authors see the greatest scope for further important advances **Insects at Low Temperature** Richard Lee, 2012-12-06 The study of insects at low temperature is a

comparatively new field Only recently has insect cryobiology begun to mature as research moves from a descriptive approach to a search for underlying mechanisms at diverse levels of organization ranging from the gene and cell to ecological and evolutionary relationships Knowledge of insect responses to low temperature is crucial for understanding the biology of insects living in seasonally varying habitats as well as in polar regions It is not possible to precisely define low temperature In the tropics exposure to 10 15 C may induce chill coma or death whereas some insects in temperate and polar regions remain active and indeed even able to fly at 0 C or below In contrast for persons interested in cryopreservation low temperature may mean storage in liquid nitrogen at 196 C In the last decade interest in adaptations of invertebrates to low temperature has risen steadily In part this book had its origins in a symposium on this subject that was held at the annual meeting of the Entomological Society of America in Louisville Kentucky USA in December 1988 However the emergence and growth of this area has also been strongly influenced by an informal group of investigators who met in a series of symposia held in Oslo Norway in 1982 in Victoria British Columbia Canada in 1985 and in Cambridge England in 1988 Another is scheduled for Binghamton New York USA 1990 **Development of Hormone Receptors** G. Csaba, 2013-03-12

Invertebrate Reproduction & Development, 2001 **The Insects** P. J. Gullan, P. S. Cranston, 2009-02-05 TO ACCESS THE ARTWORK FROM THE BOOK PLEASE VISIT [www.blackwellpublishing.com/gullan](http://www.blackwellpublishing.com/gullan) This established and popular textbook is the definitive guide to the study of insects a group of animals that represent over half of the planet's biological diversity

Completely updated and expanded this new edition examines all aspects of insect biology including anatomy and physiology ecology and evolution of insects insect behaviours such as sociality predation parasitism and defense medical and veterinary entomology and methods of collection preserving and identifying insects Features new chapters on the methods and results of studies of insect phylogeny and a new review of insect evolution and biogeography Includes expanded sections on species diversity social behaviour pest management aquatic entomology parasitology and medical entomology Successful strategies in insect conservation are also covered for the first time reflecting the increasing threat to natural ecosystems from environmental changes Boxes highlighting key themes suggestions for further reading and illustrations including specially commissioned drawings and colour plates are included throughout The artwork from the text is available for instructors either via CD ROM or by visiting [www.blackwellpublishing.com/gullan](http://www.blackwellpublishing.com/gullan)      *The ... Yearbook of Agriculture* ,1986

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