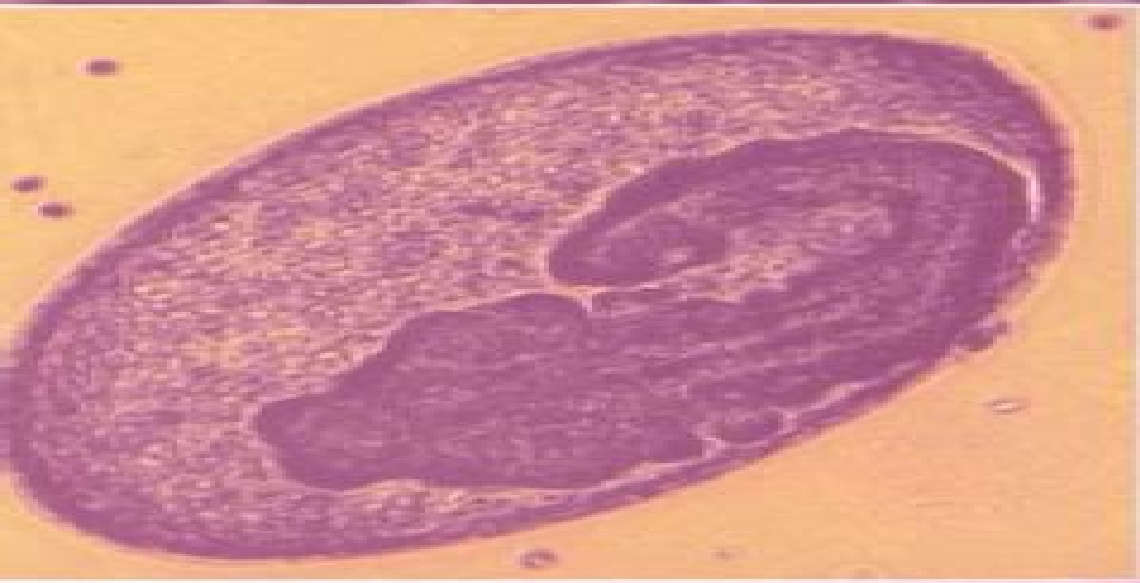


# Endocrine Interactions of Insect Parasites and Pathogens

Edited by

**J.P. Edwards and R.J. Weaver**



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# Endocrine Interactions Of Insect Parasites And Pathogens

**Nancy E. Beckage, Stephen A.  
Thompson, B. A. Federici**



## **Endocrine Interactions Of Insect Parasites And Pathogens:**

**Endocrine Interactions of Insect Parasites and Pathogens** J. P. Edwards, Robert James Weaver, 2001 Endocrine Interactions of Insect Parasites and Pathogens is one of the first books to concentrate specifically on the endocrine aspects of host parasite and host pathogen reactions Written by well known researchers in the field the book is an up to date compendium and provides a thorough review of the current research Parasites and Pathogens of Insects Nancy E. Beckage, Stephen A. Thompson, B. A. Federici, 2012-12-02 Both volumes of Parasites and Pathogens of Insects provide in depth coverage of the interface between insect parasites and pathogens and hosts and explore the relationships between these partners They emphasize biochemical and molecular interactions basic biology and the roles of hormones receptors and other cellular components in modulating interactions between host insects and attacking agents These topics also are assessed in relation to biotechnology and biological control In the short term these volumes fill a void in current literature by emphasizing basic interactions at the biochemical and molecular levels In the long term these interactions may provide avenues for exploitation to enhance the rate of beneficial parasitism or to reduce the rates of disease transmission and infection of vertebrate hosts Presents the latest information on insect parasites and pathogens Describes biochemical and molecular host parasite and host pathogen relationships Covers mechanisms of insect pathogenicity and resistance Provides exceptional breadth of coverage and authoritative reviews Special topics Transposable elements in insect pathogens Co evolution and gene transfer between hosts and invaders Biological control **Parasitoid Viruses** Nancy E. Beckage, Jean-Michel Drezen, 2011-09-30 Parasitoids are parasitic insects that kill their insect hosts in immature pre reproductive stages Parasitoids are employed in biological control programs worldwide to kill insect pests and are environmentally safe and benign alternatives to chemical pesticides As resistance to chemical pesticides continues to escalate in many pest populations attention is now refocusing on biologically based strategies to control pest species in agriculture and forestry as well as insect vector populations that transmit human and animal diseases Parasitoids are an economically critical element in this equation and integrated pest management Viruses have evolved intimate associations with parasitoids and this book features sections on both symbiotic viruses that are integrated into the wasp s chromosomal DNA polydnaviruses that play critical roles in suppressing host immunity during parasitism A separate section with additional chapters on viral pathogens that infect parasitoids to cause disease and act as detrimental agents that limit effectiveness of wasp species employed in biological control of pests is also featured A third component is a section on parasitoid venoms which are of interest to the pharmaceutical and medical communities as well as insect oriented biologists Sections focus on both virus evolution and genomics as well as proteomics and functional roles of polydnavirus encoded gene products International researchers and emerging leaders in their fields provide readers with syntheses of the latest research Includes content on both symbiotic viruses and pathogenic viruses plus new research on parasitoid venoms Cutting edge section on

future directions in the field covers the impacts of polydnavirus research on medicine human health bioengineering and the economy increasing the value for researchers and practitioners who need to stay on top of the research in this swiftly moving field

**Parasites and Pathogens** N.E. Beckage, 2012-12-06 When Nancy Beckage and I first met in Lynn Riddiford's laboratory at the University of Washington in the mid 1970s the fields of parasitology behavior and endocrinology were thriving and far flung disciplines in no serious danger of intersecting There were rumors that they might have some common ground Behavioural Aspects of Parasite Transmission Canning and Wright 1972 had just emerged with exciting news not only of the way parasites themselves behave but also of Machiavellian worms that caused intermediate hosts to shift fundamental responses to light and disturbance becoming in the process more vulnerable to predation by the next host Holmes and Bethel 1972 Meanwhile biologists such as Miriam Rothschild see Dedication G B Solomon 1969 and Lynn Riddiford herself 1975 had suggested that the endocrinological rami of parasitism might be subtle and pervasive In general however parasitizations sites were viewed as aberrant organisms perhaps good for a few just so stories prior to turning our attention once again to real animals In the decade that followed Pauline Lawrence 1986a b Davy Jones Jones et al 1986 Nancy Beckage Beckage 1985 Beckage and Templeton 1986 and others including many in this volume left no doubt that the host parasite combination in insect systems was physiologically distinct from its unparasitized counterpart in ways that went beyond gross pathology

*Parasite-Insect Interactions* Hilary Hurd, Richard Lane, L. H. Chappell, 1998-11-19 This volume of Parasitology examines specifically parasite insect Interaction

**Insect Bioecology and Nutrition for Integrated Pest Management** Antônio Ricardo Panizzi, José R. P. Parra, 2012-03-08 The field of insect nutritional ecology has been defined by how insects deal with nutritional and non nutritional compounds and how these compounds influence their biology in evolutionary time In contrast *Insect Bioecology and Nutrition for Integrated Pest Management* presents these entomological concepts within the framework of integrated pest management IPM It specifically addresses bioecology and insect nutrition in modern agriculture Written for graduate students and professionals in entomology this book covers neotropical information in three sections General Aspects Basic bioecology and insect nutrition artificial diets insect plant interactions insect symbionts the interface of chemical ecology with the food and insect cannibalism Specific Aspects Specific feeding guilds of insects including ants social bees leaf chewers seed suckers seed chewers root feeders gall makers detritivorous feeders pests of storage grains fruit flies aphids endo and ectoparasitoids predators crisopids and hematophagous insects Applied Aspects Host plant resistance and the design of IPM programs in the context of insect bioecology and nutrition Much of the research on which these chapters were written was done in Brazil and based on its neotropical fauna The complexity and diversity of the neotropics provides enough data that readers from all zoogeographical regions can readily translate the information in this book to their specific conditions The book's value as an entry point for further research is enhanced by the inclusion of approximately 4 000 references

*Insect Endocrinology* Lawrence I. Gilbert, 2011-07-26 The publication of the extensive

seven volume work Comprehensive Molecular Insect Science provided a complete reference encompassing important developments and achievements in modern insect science One of the most swiftly moving areas in entomological and comparative research is endocrinology and this volume Insect Endocrinology is designed for those who desire a comprehensive yet concise work on important aspects of this topic Because this area has moved quickly since the original publication articles in this new volume are revised highlighting developments in the related area since its original publication Insect Endocrinology covers the mechanism of action of insect hormones during growth and metamorphosis as well as the role of insect hormones in reproduction diapause and the regulation of metabolism Contents include articles on the juvenile hormones circadian organization of the endocrine system ecdysteroid chemistry and biochemistry as well as new chapters on insulin like peptides and the peptide hormone Bursicon This volume will be of great value to senior investigators graduate students post doctoral fellows and advanced undergraduate research students It can also be used as a reference for graduate courses and seminars on the topic Chapters will also be valuable to the applied biologist or entomologist providing the requisite understanding necessary for probing the more applied research areas Articles selected by the known and respected editor in chief of the original major reference work Comprehensive Molecular Insect Science Newly revised contributions bring together the latest research in the quickly moving field of insect endocrinology Review of the literature of the past five years is now included as well as full use of data arising from the application of molecular technologies wherever appropriate

**Behavioral Ecology of Insect Parasitoids** Eric Wajnberg, Carlos Bernstein, Jacques van Alphen, 2008-04-30 Written by a team of leading international specialists Behavioral Ecology of Insect Parasitoids examines the optimal behaviors that parasitoids exhibit in order to maximize long term offspring production It is an essential reference for research scientists and students studying these fascinating insects or for anyone involved in using parasitoids in biological control programs Reviews topical issues including cutting edge research on parasitoid decision making and the implications for biological control Explores applications in other fields provides information on the latest research methods and includes helpful case studies and statistical tools Creates a deeper understanding of the link between behavioural strategies and host mortality resulting in more efficient selective pest management programs Overall this is a fascinating volume that provides a significant contribution to the literature on parasitoid insects It goes a long way toward providing insights into numerous aspects of parasitoid behavior and will stimulate a diversity of future projects something that should be the goal of any such text I highly recommend Wajnberg et al for all of those working on the biology or evolution of parasitoids Palaios 2009 *Journal of Experimental Biology*, 2005 Chalcidoidea of the World John Heraty, James Woolley, 2025-03-25 The superfamily Chalcidoidea the jewel wasps are part of the insect order Hymenoptera The superfamily comprises more than 27 000 known species with an estimated total diversity of more than 500 000 species meaning that the vast majority have yet to be discovered and described Most of the species are parasitoids attacking the egg larval stage or pupal stage of their host

though many other life cycles are known including gall associates and fig pollinators This landmark volume has been co authored by world authorities on the systematics and biology of chalcidoid wasps It provides an introduction to the superfamily a review of chalcidoid morphology an overview of the fossil record a phylogenetic framework for the revised classification of the superfamily an identification key for the 50 recognized families and detailed treatments of the individual families For many years to come this important book will serve the needs of hymenopterists and professional entomologists taxonomists and systematists entomologists working on parasitic wasps as biological control agents and ecologists working on parasite host interactions

**Encyclopedia of Entomology** John L. Capinera, 2008-08-11 This text brings together fundamental information on insect taxa morphology ecology behavior physiology and genetics Close relatives of insects such as spiders and mites are included

**Parasites and the Behavior of Animals** Janice Moore, 2002-01-31 When a parasite invades an ant does the ant behave like other ants Maybe not and if it doesn't who if anyone benefits from the altered behaviors The ant Parasites and the Behavior of Animals shows that parasite induced behavioral alterations are more common than we might realize and it places these alterations in an evolutionary and ecological context Emphasizing eukaryotic parasites the book examines the adaptive nature of behavioral changes associated with parasitism exploring the effects of these changes on parasite transmission parasite avoidance and the fitness of both host and parasite The behavioral changes and their effects are not always straightforward To the extent that virulence for instance is linked to parasite transmission the evolutionary interests of parasite and host will diverge and the current winner of the contest to maximize reproductive rates may not be clear or for that matter inevitable Nonetheless by affecting susceptibility host parasite lifespan and fecundity and transmission itself host behavior influences parameters that are basic to our comprehension of how parasites invade host populations and fundamentally how parasites evolve Such an understanding is important for a wide range of scientists from ecologists and parasitologists to evolutionary conservation and behavioral biologists The behavioral alterations that parasites induce can subtly and profoundly affect the distribution and abundance of animals

The Braconid and Ichneumonid Parasitoid Wasps Donald L. J. Quicke, 2015-01-20 The Ichneumonoidea is a vast and important superfamily of parasitic wasps with some 60 000 described species and estimated numbers far higher especially for small bodied tropical taxa The superfamily comprises two cosmopolitan families Braconidae and Ichneumonidae that have largely attracted separate groups of researchers and this to a considerable extent has meant that understanding of their adaptive features has often been considered in isolation This book considers both families highlighting similarities and differences in their adaptations The classification of the whole of the Ichneumonoidea along with most other insect orders has been plagued by typology whereby undue importance has been attributed to particular characters in defining groups Typology is a common disease of traditional taxonomy such that until recently quite a lot of taxa have been associated with the wrong higher clades The sheer size of the group and until the last 30 or so years lack of accessible identification materials has been a further

impediment to research on all but a handful of lab rat species usually cultured initially because of their potential in biological control New evidence largely in the form of molecular data have shown that many morphological behavioural physiological and anatomical characters associated with basic life history features specifically whether wasps are ecto or endoparasitic or idiobiont or koinobiont can be grossly misleading in terms of the phylogeny they suggest This book shows how with better supported phylogenetic hypotheses entomologists can understand far more about the ways natural selection is acting upon them This new book also focuses on this superfamily with which the author has great familiarity and provides a detailed coverage of each subfamily emphasising anatomy taxonomy and systematics biology as well as pointing out the importance and research potential of each group Fossil taxa are included and it also has sections on biogeography global species richness culturing and rearing and preparing specimens for taxonomic study The book highlights areas where research might be particularly rewarding and suggests systems groups that need investigation The author provides a large compendium of references to original research on each group This book is an essential workmate for all postgraduates and researchers working on ichneumonoid or other parasitic wasps worldwide It will stand as a reference book for a good number of years and while rapid advances in various fields such as genomics and host physiological interactions will lead to new information as an overall synthesis of the current state it will stay relevant for a long time

*Host-Parasite Interactions* Gert Flik, Geert Wiegertjes, 2004-07-01 This volume summarizes current research into the physiology and molecular biology of host parasite interactions Brought together by leading international experts in the field the first section outlines fundamental processes followed by specific examples in the concluding section Covering a wide range of organisms Host Parasite Interactions is essential reading for researchers in the field

**The Behavioural Ecology of Parasites** E. E. Lewis, J. F. Campbell, M. V. K. Sukhdeo, 2002-07-17 Parasites have evolved numerous complex and fascinating ways of interacting with their hosts The subject attracts the interest of numerous biologists from the perspective of ecology and behavioural biology as well as from those concerned with more applied aspects of parasitology However until now there has been no recent book to synthesize this field This book written by leading authorities from the USA Europe Australia and New Zealand provides the most comprehensive coverage of this important topic on the market

Redox Metabolism and Longevity Relationships in Animals and Plants Christine Foyer, Richard Faragher, Paul Thornalley, 2009-06-02 Redox Metabolism and Longevity Relationships in Animals and Plants focuses on the recent issues that have emerged in ageing research in both the animal and plant kingdoms This volume reviews current concepts concerning cellular redox homeostasis and ageing in animals and plants relationships to programmed cell death the production of oxidants and dicarbonyls the ways that different organisms perceive and respond to oxidative nitration and glycation challenges and how this might be intricately connected to ageing and lifespan

**Aphids as Crop Pests, 2nd Edition** Helmut F van Emden, Richard Harrington, 2017-08-23 Aphids are among the major global pest groups causing serious economic damage to many food and commodity crops in most parts of the world This revision and

update of the well received first edition published ten years ago reflects the expansion of research in genomics endosymbionts and semiochemicals as well as the shift from control of aphids with insecticides to a more integrated approach imposed by increasing resistance in the aphids and government restrictions on pesticides The book remains a comprehensive and up to date reference work on the biology of aphids the various methods of controlling them and the progress of integrated pest management as illustrated by ten case histories

**Drosophila: A Toolbox for the Study of Neurodegenerative Disease** Amritpal Mudher, Tracey Newman, 2020-11-25 Drosophila gives an overview of the ways in which Drosophila is currently being used as a model organism to further our understanding of a spectrum of human neurological diseases Each chapter is written by respected researchers and gives an excellent account of the subject that is suitable for postgraduate and postdoctoral researchers

The Nuclear Envelope David Evans, Chris Hutchison, John Bryant, 2004-09-01 The Nuclear Envelope brings together the major current topics in nuclear envelope structure transport transcriptional regulation and cell signaling The volume is divided into four sections 1 Proteins of the nuclear envelope including nuclear envelope proteomics structure and function 2 Nuclear pores and transport at the nuclear envelope including pore complex structure assembly and function and import and export pathways 3 Nuclear envelope dynamics including dynamics of lamina assembly and disassembly 4 Nuclear signaling and transcription regulation including signaling to the nucleus and spectrin repeat proteins and their implications or communication between the nucleus and cytoplasm

*Insect Taste* Philip Newland, Matthew Cobb, Frederic Marion-Poll, 2009-06-02 Insect Taste offers an accessible overview to some of the many advances in insect taste research The book covers how insects solve the basic problem of taste gustatory processing from detection and transduction through coding to the generation of behavior and the evolutionary biology underpinning gustatory learning



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