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Parasitoid Viruses

Symbionts and Pathogens



Parasitoid Viruses Symbionts And Pathogens

**Susanna Valanne, Dan Hultmark, Laura
Vesala**



Parasitoid Viruses Symbionts And Pathogens:

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 **The Braconid and Ichneumonid Parasitoid Wasps** Donald L. J.

Quicke, 2014-12-01 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

Parasitoids' Ecology and Evolution Paul-andré Calatayud, Catherine Wanjiru Clarke, René F. H. Sforza, Rose Ngeh Ndemah, Casper Nyamukondiwa, 2020-02-24

Ecology of Invertebrate Diseases Ann E. Hajek, David I. Shapiro-Ilan, 2018-01-16 A rapidly growing interdisciplinary field disease ecology merges key ideas from ecology medicine genetics immunology and epidemiology to study how hosts and pathogens interact in populations communities and entire ecosystems Bringing together contributions from leading international experts on the ecology of diseases among invertebrate species this book provides a comprehensive assessment of the current state of the field Beginning with an introductory overview of general principles and methodologies the book continues with in depth discussions of a range of critical issues concerning invertebrate disease epidemiology molecular biology vectors and pathogens Topics covered in detail include Methods for studying the ecology of invertebrate diseases and pathogens Invertebrate pathogen ecology and the ecology of pathogen groups Applied ecology of invertebrate pathogens Leveraging the ecology of invertebrate pathogens in microbial control Prevention and management of infectious diseases of aquatic invertebrates Ecology of Invertebrate Diseases is a necessary and long overdue addition to the world literature on this vitally important subject This volume belongs on the reference shelves of all those involved in the environmental sciences genetics microbiology marine biology immunology epidemiology fisheries and wildlife science and related disciplines

Arthropod Biology and Evolution Alessandro Minelli, Geoffrey Boxshall, Giuseppe Fusco, 2013-04-11 More than two thirds of all living organisms described to date belong to the phylum Arthropoda But their diversity as measured in terms of species number is also accompanied by an amazing disparity in terms of body form developmental processes and adaptations to every inhabitable place on Earth from the deepest marine abysses to the earth surface and the air The Arthropoda also include one of the most fashionable and extensively studied of all model organisms the fruit fly whose name is not only linked forever to Mendelian and population genetics but has more recently come back to centre stage as one of the most important and more

extensively investigated models in developmental genetics This approach has completely changed our appreciation of some of the most characteristic traits of arthropods as are the origin and evolution of segments their regional and individual specialization and the origin and evolution of the appendages At approximately the same time as developmental genetics was eventually turning into the major agent in the birth of evolutionary developmental biology evo devo molecular phylogenetics was challenging the traditional views on arthropod phylogeny including the relationships among the four major groups insects crustaceans myriapods and chelicerates In the meantime palaeontology was revealing an amazing number of extinct forms that on the one side have contributed to a radical revisitation of arthropod phylogeny but on the other have provided evidence of a previously unexpected disparity of arthropod and arthropod like forms that often challenge a clear cut delimitation of the phylum

Recent Advances in Drosophila Cellular and Humoral Innate Immunity Susanna Valanne, Dan Hultmark, Laura Vesala, 2020-12-10 This eBook is a collection of articles from a Frontiers Research Topic Frontiers Research Topics are very popular trademarks of the Frontiers Journals Series they are collections of at least ten articles all centered on a particular subject With their unique mix of varied contributions from Original Research to Review Articles Frontiers Research Topics unify the most influential researchers the latest key findings and historical advances in a hot research area Find out more on how to host your own Frontiers Research Topic or contribute to one as an author by contacting the Frontiers Editorial Office frontiersin.org about contact

Parasitoids of Drosophila, 2009-09-17 Much is known about the biology of Drosophila parasitoids which is why they are used as a model for studying other parasitoids This book brings together the different fields of research that can be explored thanks to the Drosophila parasitoid model It shows how the complementary knowledge arising from different approaches is inspiring the development of new areas of research on this biological model It also discusses techniques and methods specifically adapted to the study of larval parasitoid species

Abrégé Des Publications Canadian Forest Service, 2011 Parasitoid Wasps of South East Asia Buntika A. Butcher, Donald L. J. Quicke, 2023-12-22 Parasitoid wasps are cosmopolitan numerous and enormously diverse with probably one million or more species worldwide most of which occur in the moist tropics Their ecological importance is enormous although perhaps most evident in their major roles in the control of insect pest populations In natural ecosystems they are integral in regulating populations of a vast number of insects and therefore are key players in terrestrial food webs Knowledge of their biology is still very poor because the current state of taxonomy is still in its infancy in most parts of the world In this book we provide an overview of the more than 30 families of parasitoid wasps that occur in the 11 countries in South East Asia Particular emphasis is given to those most commonly encountered and reared as well as to those used in biological control programmes Outlines of the morphology biology ecology and behaviour of each family as well as of various important subfamilies are presented The current state of taxonomy in the region is summarised Other chapters cover basic biology behaviour morphological terminology phylogeny and methods of specimen collecting preparation and rearing with

particular relevance to the tropics Modern molecular approaches to speeding taxonomic description of hyperdiverse taxa are considered in depth All groups are illustrated with colour photographs This book will be of value to professional entomologists academics entomology students and the growing body of amateur entomologists and insect photographers

Insect Molecular Genetics Marjorie A. Hoy, 2003-03-03 A valuable addition to the personal libraries of entomologists geneticists and molecular biologists Caterpillars in the Middle Robert J. Marquis, Suzanne Koptur, 2022-04-22 Caterpillars are excellent model organisms for understanding how multiple selective forces shape the ecology and evolution of insects and organisms in general Recent research using the tools of modern molecular biology genetics metabolomics microbial ecology experiments conducted at a global level network analysis and statistical analyses of global data sets combined with basic natural history are yielding exciting new insights into caterpillar adaptations and ecology The best way to view these research advances is within a framework of tri trophic interactions This is a timely topic for research given the central role of caterpillars and plants in the ecology and trophic structure of terrestrial communities This book is unique in that it contains chapters from a team of experts on a diversity of key topics within caterpillar plant interactions This volume brings together contributions by researchers from around the globe working in both tropical and temperate habitats and in human managed and more natural habitats It is a significant contribution to our understanding of insect biology and the role that insects as represented by caterpillars play in a world increasingly dominated by humans and one in which threats to insect biodiversity are mounting Chapter 11 is available open access under a Creative Commons Attribution 4 0 International License via link [springer.com](https://www.springer.com) The Natural History of Caterpillar Ant Associations is available open access under a Creative Commons Attribution 4 0 International License via link [springer.com](https://www.springer.com) **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 parasitism 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 **Insect Viruses** , 2006-09-22 Baculoviruses are

perhaps unique among viruses in the breadth of their biotechnological applications these insect specific viruses are used not only for insect pest management purposes but also as laboratory research tools for production of recombinant proteins and for protein display and as potential vectors for human gene therapy In addition to highlighting recent advances this volume provides a comprehensive review of the biotechnological applications of these and other insect viruses in both the academic and private sectors

Insect Infection and Immunity Jens Rolff, Stuart Reynolds, 2009-06-25 The study of insect immune systems has accelerated rapidly in recent years is now becoming an important interdisciplinary field This book provides a coherent synthesis is clearly structured around three broadly themed sections mechanisms interactions evolutionary ecology

The Mechanistic Benefits of Microbial Symbionts Christon J. Hurst, 2016-05-24 This volume summarizes recent advances in our understanding of the mechanisms that produce successful symbiotic partnerships involving microorganisms It begins with a basic introduction to the nature of and mechanistic benefits derived from symbiotic associations Taking that background knowledge as the starting point the next sections include chapters that examine representative examples of coevolutionary associations that have developed between species of microbes as well as associations between microbes and plants The authors conclude with a section covering a broad range of associations between microbes and invertebrate animals in which they discuss the spectrum of hosts with examples ranging from bryozoans and corals to nematodes arthropods and cephalopods Join the authors on this journey of understanding

Insect immunity and its interactions with microorganisms and parasitoids Fengliang Jin, Erjun Ling, Yonggyun Kim, Zhen Zou, 2023-12-18 Insects are a group of abundant and diverse organisms that have successfully adapted to the most challenging conditions on earth The success of insects in adverse environments indicates the advanced defense mechanisms employed by these organisms but they are often targeted by specialized microorganisms viruses bacteria nematodes fungi and parasitoids Insects exhibit both humoral and cellular immune responses against pathogens The lack of an adaptive immune system has compelled insects to choose immediate non specific but sophisticated responses that include the production of antimicrobial peptides phenoloxidase apoptosis phagocytosis encapsulation and nodulation In recent decades technological advances have been made in decrypting the molecular and mechanistic basis of insect immunity However there is a need to understand the insect immune responses to single or mixed encounters Future challenges include a better understanding of functional cooperation of various endosymbiotic microbes and their role in insect defenses Post transcriptional modulation of immune responses regulated by non coding RNAs microRNA long non coding RNAs has become critically important to study by using modern bioinformatics and experimental tools Therefore investigating the dynamics of insect immune responses will substantially increase the capacity for confronting harmful agricultural and medical pests Furthermore most insect cellular immune activities have been conducted in a laboratory setting therefore confirming the existing knowledge in a natural environment would provide crucial information

The Changing Faces of Glutathione, a Cellular Protagonist Alfonso

Pompella, Alessandro Corti, 2015-07-17 Glutathione GSH has been described for a long time just as a defensive reagent against the action of toxic xenobiotics drugs pollutants carcinogens both directly and as a cofactor for GSH transferases As a prototype antioxidant it has been involved in cell protection from the noxious effect of excess oxidant stress both directly and as a cofactor of glutathione peroxidases In addition it has long been known that GSH is capable of forming disulfide bonds with cysteine residues of proteins and the relevance of this mechanism S glutathionylation in regulation of protein function has been well documented in a number of research fields Rather paradoxically it has also been highlighted that GSH and notably its catabolites as originated by metabolism by gamma glutamyltransferase can promote oxidative processes by participating in metal ion mediated reactions eventually leading to formation of reactive oxygen species and free radicals Also a fundamental role of GSH has been recognized in the storage and transport of nitric oxide NO in the form of S nitrosoglutathione GSNO The significance of GSH as a major factor in regulation of cell life proliferation and death can be regarded as the integrated result of all these roles as well as of more which are emerging in diverse fields of biology and pathophysiology Against this background modulation of GSH levels and GSH related enzyme activities represents a fertile field for experimental pharmacology in numerous and diverse perspectives of animal plant and microbiologic research This research topic includes 14 articles i e 4 Opinion Articles 6 Reviews and 4 Original Research Articles The contributions by several distinguished research groups each from his own standpoint of competence and expertise provide a comprehensive and updated view over the diverse roles the changing faces of GSH and GSH related enzymes in cell s health disease and death

Predators and Parasitoids Opende Koul, G. S. Dhaliwal, 2003-03-13 Their natural enemies largely determine the population size and dynamic behavior of many plant eating insects Any reduction in enemy number can result in an insect outbreak Applied biological control is thus one strategy for restoring functional biodiversity in many agroecosystems Predators and Parasitoids addresses the role of natural enemies i

Crop Protection, 2018-09-19 Crop Protection Volume 55 the latest release in the Advances in Insect Physiology series highlights new advances in the field with this new volume presenting interesting chapters on RNAi Plus where microbes enhance RNAi Mechanism and Applications Symbionts in whiteflies miRNAs from the microbiome as drivers in the insect a critical view on insect microbiome data analysis and interpretation Insect microbe interactions and transmission as shaped by future climate changes Intestinal bacteria of the German cockroach and its interaction with entomopathogenic fungus and Beyond Baculovirus Alternative biotechnological platforms and pest control based on insect viruses Provides the authority and expertise of leading contributors from an international board of authors Presents the latest release in the Advances in Insect Physiology series Updated release includes the latest information on crop protection

Life History Evolution Michal Segoli, Eric Wajnberg, 2025-03-10 Provides a timely and authoritative account of Life History Evolution by a multidisciplinary team of scholars and researchers from around the world Life History Evolution Traits Interactions and Applications presents a cutting edge synthesis of the

mechanisms driving life history strategies that span the breadth of taxa from bacteria to humans Integrating classical and contemporary perspectives this comprehensive volume addresses how organisms evolve traits in response to diverse ecological pressures Editors Michal Segoli and Eric Wajnberg bring together leading experts to explore the intersection of evolutionary biology ecology and applied research focusing on the evolving complexity of life history traits and their implications In depth yet accessible chapters cover a broad spectrum of life history traits from classical traits of lifespan and reproduction to more complex interactions like social behaviour predator prey dynamics and human induced evolutionary processes The contributing authors explain essential concepts identify critical knowledge gaps discuss future research directions and demonstrate the relevance of life history evolution in addressing climate change species invasion pollution and more Providing a well balanced understanding of life history traits and their implications Life History Evolution Incorporates recent advances in evolutionary theory including eco evolutionary feedback loops and anthropogenic impacts Offers diverse perspectives and original research from leading experts in fields such as evolutionary biology ecology entomology zoology agriculture and veterinary medicine Discusses life history evolution in the context of co evolved interactions such as predator prey parasite host plant herbivore and endosymbiont host relationships Provides an overview of the foundational theory recent developments and current thinking in the field Features numerous case studies that highlight real world applications in biological control wildlife management climate change adaptation and others Revealing how life history traits shape the evolutionary strategies of organisms Life History Evolution Traits Interactions and Applications is an essential resource for undergraduate and graduate students researchers industry professionals and policymakers in ecological science It is an ideal textbook for courses in evolutionary ecology evolutionary biology conservation biology environmental science and environmental management

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