



BEHAVIORAL ECOLOGY OF INSECT PARASITOIDS

From theoretical approaches
to field applications

EDITED BY

ÉRIC WAJNBERG

CARLOS BERNSTEIN

JACQUES VAN ALPHEN



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Behavioural Ecology Of Insect Parasitoids From Theoretical Approaches To Field Applications

Jun Tabata



Behavioural Ecology Of Insect Parasitoids From Theoretical Approaches To Field Applications:

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

Egg Parasitoids in Agroecosystems with Emphasis on Trichogramma Fernando L. Consoli, José R. P. Parra, Roberto A. Zucchi, 2010-09-28 Egg Parasitoids in Agroecosystems with emphasis on Trichogramma was conceived to help in the promotion of biological control through egg parasitoids by providing both basic and applied information The book has a series of chapters dedicated to the understanding of egg parasitoid taxonomy development nutrition and reproduction host recognition and utilization and their distribution and host associations There are also several chapters focusing on the mass production and commercialization of egg parasitoids for biological control addressing important issues such as parasitoid quality control the risk assessment of egg parasitoids to non target species the use of egg parasitoids in integrated pest management programs and the impact of GMO on these natural enemies Chapters provide an in depth analysis of the literature available are richly illustrated and propose future trends

Chemical Ecology of Insects Jun Tabata, 2018-01-29 Insects have evolved very unique and interesting tactics using chemical signals to survive Chemical ecology illustrates the working of the biological network by means of chemical analyses Recent advances in analytical technology have opened the way to a better understanding of the more complicated and abyssal interactions of insects with other organisms including plants and microbes This book covers recent research on insects and chemical communications and presents the current status about challenges faced by chemical ecologists for the management of pests in agriculture and human health

Biological Control of Insect Pests in Plantation Forests Brett P. Hurley, Simon A. Lawson, Bernard Slippers, 2025-02-24 This book includes chapters focusing on the principles of biological control and influence of policy ecology and diversity in establishing successful programs Plantation forests have a crucial role to meet the fiber demands of a growing world population especially considering the concerning decrease in the world s total forest area One of the

greatest threats to the sustainability of plantation forestry is insect pests Among the approaches that can be used to manage populations of insect pests biological control is considered one of the most feasible and effective approaches to use in plantation forests The authors review past and current major biological control programs in different plantation forest systems including pine eucalyptus and poplar and including classical conservation and augmentative approaches Other chapters examine opportunities to use new technologies and integrated approaches and identify future challenges in the use of biological control

Chemical Ecology of Insect Parasitoids

Eric Wajnberg, Stefano Colazza, 2013-03-15 Insect parasitoids are a fascinating group of animals in many respects Perhaps the most fascinating point is that these insects in the course of the evolutionary time have developed an impressive way to use chemical compounds to dialogue with the different protagonists of their environment i.e. conspecifics their hosts and the plants on which their hosts are living Unravelling the evolutionary meaning of such chemical communication networks can give new insights into the ecology of these insects and especially on how to improve their use for the control of noxious pests in biological control programmes Chemical Ecology of Insect Parasitoids is a timely publication with organised chapters to present the most important knowledge and discoveries that have taken place over the last decade and their potential use in pest control strategy Specific relevant case studies are presented to enhance the reader's experience Suited to graduate students and professional researchers and practitioners in pest management entomology evolutionary biology behavioural ecology and chemical ecology this book is essential for anyone needing information on this important group of insects

Jervis's Insects as Natural Enemies: Practical Perspectives

Ian C.W. Hardy, Eric Wajnberg, 2023-11-09 There has been a dramatic increase in theoretical and practical studies on insect natural enemies over the last decades The appeal of insect predators and in particular parasitoids as research animals derives from the relative ease with which many species may be cultured and experimented on in the laboratory the simple life cycles of most parasitoid species and the increasing demand for biological pest control as a key component of the integrated pest management approach There is now a very substantial literature on insect natural enemies and thus a great need for a general text that enquiring students or research workers can use in deciding on approaches and techniques that are appropriate to the study and evaluation of such insects This book fulfils that demand It is a considerably updated and expanded version of a previous best seller and provides an account of major aspects of the biology of predators and parasitoids punctuated with information and advice on which experiments or observations to conduct and importantly how to carry them out Guidance is provided where necessary on the most recent further literature that may need to be consulted on given topics While researchers can now refer to several books on parasitoids and predators Jervis's Insects as Natural Enemies is unique in emphasising practicalities It is aimed at students and professionals working in universities and both government and commercial institutes in the fields of integrated pest management agriculture horticulture and forestry as well as those interested in fundamentals of behavioural population community and evolutionary ecology

Frontiers in

Ecology and Evolution 2020 Highlights Mark A. Elgar, 2021-02-26 If nothing else 2020 reminded us that whether we like it or not human society forms part of a broader ecological community that includes species with management challenges My experience in Melbourne highlighted how environmental threats to humanity are best managed when governments adopt evidence based strategies that might also require incentives for human cooperation Fundamental research ranging from quantitative natural history to broader insights about ecological and evolutionary processes invariably forms the backbone of such evidence The collection of papers in this 2020 Highlights eBook represents a sample of articles in *Frontiers in Ecology and Evolution* that contribute to our collective wisdom in the discipline and generated sizeable interest among our readers We hope you also find them interesting

Advances in the Study of Behavior, 2013-05-16 *Advances in the Study of Behavior* was initiated over 40 years ago to serve the increasing number of scientists engaged in the study of animal behavior That number is still expanding This volume makes another important contribution to the development of the field by presenting theoretical ideas and research to those studying animal behavior and to their colleagues in neighboring fields Initiated over 40 years ago to serve the increasing number of scientists engaged in the study of animal behavior Makes another important contribution to the development of the field Presents theoretical ideas and research to those studying animal behavior and to their colleagues in neighboring fields

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

Animal Contests Ian C. W. Hardy, Mark Briffa, 2013-05-30 Contests are an important aspect of the lives of diverse animals from sea anemones competing for space on a rocky shore to fallow deer stags contending for access to females Why do animals fight What determines when fights stop and which contestant wins Addressing fundamental questions on contest behaviour this volume presents theoretical and empirical perspectives across a range of species The historical development of contest research the evolutionary theory of both dyadic and multiparty contests and approaches to experimental design and data analysis are discussed in the first chapters This is followed by reviews of research in key animal taxa from the use of aerial displays and assessment rules in butterflies and the developmental biology of weapons in beetles through to interstate warfare in humans The final chapter considers future directions and applications of contest research making this a comprehensive resource for both graduate students and researchers in the field

Delve into the emotional tapestry woven by in Dive into the Emotion of **Behavioural Ecology Of Insect Parasitoids From Theoretical Approaches To Field Applications** . This ebook, available for download in a PDF format (*), is more than just words on a page; it is a journey of connection and profound emotion. Immerse yourself in narratives that tug at your heartstrings. Download now to experience the pulse of each page and let your emotions run wild.

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