

Isaac Ishaaya
A. Rami Horowitz
Editors

Biorational Control of Arthropod Pests

*Application and Resistance
Management*



Springer

Biorational Control Of Arthropod Pests Application And Resistance Management

**Isaac Ishaaya, Subba Reddy Palli, A.
Rami Horowitz**



Biorational Control Of Arthropod Pests Application And Resistance Management:

Biorational Control of Arthropod Pests Isaac Ishaaya, A. Rami Horowitz, 2009-08-28 For nearly 50 years pest control was mostly based on broad spectrum conventional insecticides such as organochlorines organophosphates carbamates and pyrethroids However the severe adverse effects of pesticides on the environment problems of resistance reaching crisis proportions and public protests led to stricter regulations and legislation aimed at reducing their use Ways to reduce the use of synthetic pesticides in plant protection and to use more alternative and novel methods for pest control or biorational control are the challenges of pest control for the twenty first century The term biorational biological rational pesticides can be defined as the use of specific and selective chemicals often with a unique modes of action that are compatible with natural enemies and the environment with minimal effect on n target organisms Biorational control is based on a diversity of chemical biological and physical approaches for controlling insect pests which results in minimum risk to man and the environment

Biorational Control of Arthropod Pests Isaac Ishaaya, A. Rami Horowitz, 2009-09-21 For nearly 50 years pest control was mostly based on broad spectrum conventional insecticides such as organochlorines organophosphates carbamates and pyrethroids However the severe adverse effects of pesticides on the environment problems of resistance reaching crisis proportions and public protests led to stricter regulations and legislation aimed at reducing their use Ways to reduce the use of synthetic pesticides in plant protection and to use more alternative and novel methods for pest control or biorational control are the challenges of pest control for the twenty first century The term biorational biological rational pesticides can be defined as the use of specific and selective chemicals often with a unique modes of action that are compatible with natural enemies and the environment with minimal effect on n target organisms Biorational control is based on a diversity of chemical biological and physical approaches for controlling insect pests which results in minimum risk to man and the environment

Biorationals and Biopesticides Ravendra Kumar, Mozaniel Santana de Oliveira, Eloisa Helena de Aguiar Andrade, Deep Chandra Suyal, Ravindra Soni, 2024-04-22 Biorationals or biopesticides are pest control agents of biological origin Biopesticides are emerging alternatives to harmful chemical pest control agents The book provides essential information on botanical biological originated insecticidal herbicidal fungicidal nematocidal agents insect growth hormones insect pheromones and plant growth regulators It will help researchers and students to develop new strategies for pest management

Advanced Technologies for Managing Insect Pests Isaac Ishaaya, Subba Reddy Palli, A. Rami Horowitz, 2012-07-20 Among the highlights of this book is the use of novel insecticides acting on a specific site in an insect group and are compatible with natural enemies and the environment One of such approaches is based on disrupting the activity of biochemical sites acting on transcription factors such as the Helix Loop Helix bHLH family anti juvenile hormone AJH agents that target JH biosynthetic enzymes G protein coupled receptors GPCR and bursicon as a target for insect control Another one is the biotechnology or the genetic approach such as gene silencing RNA interference and Bt crops Other

sections of the book are devoted to the plant's natural products, optical manipulation and the use of nanotechnology for improving insect control methods. *Tolerance to Environmental Contaminants* Claude Amiard-Triquet, Philip S.

Rainbow, Michele Romeo, 2011-01-21 Tolerance the ability of populations to cope with the chemical stress resulting from toxic contaminants has been described in many organisms from bacteria to fungi from phytoplankton to terrestrial flowering plants and from invertebrates such as worms to vertebrates like fish and amphibians. The building of tolerance be it by physiological acc. Handbook of Food Preservation M. Shafiur Rahman, 2020-06-10 The processing of food is no longer simple or

straightforward but is now a highly interdisciplinary science. A number of new techniques have developed to extend shelf life, minimize risk, protect the environment and improve functional, sensory and nutritional properties. Since 1999 when the first edition of this book was published, it has facilitated readers' understanding of the methods, technology and science involved in the manipulation of conventional and newer sophisticated food preservation methods. The Third Edition of the Handbook of Food Preservation provides a basic background in postharvest technology for foods of plant and animal origin, presenting preservation technology of minimally processed foods and hurdle technology or combined methods of preservation. Each chapter compiles the mode of food preservation, basic terminologies and sequential steps of treatments, including types of equipment required. In addition, chapters present how preservation method affects the products' reaction kinetics and selected prediction models related to food stability, what conditions need be applied for best quality and safety and applications of these preservation methods in different food products. This book emphasizes practical, cost-effective and safe strategies for implementing preservation techniques for wide varieties of food products. Features: Includes extensive overview on the postharvest handling and treatments for foods of plants and animal origin. Describes comprehensive preservation methods using chemicals and microbes such as fermentation, antimicrobials, antioxidants, pH lowering and nitrite. Explains comprehensive preservation by controlling of water structure and atmosphere such as water activity, glass transition state diagram, drying, smoking, edible coating, encapsulation and controlled release. Describes preservation methods using conventional heat and other forms of energy such as microwave, ultrasound, ohmic heating, light irradiation, pulsed electric field, high pressure and magnetic field. Revised, updated and expanded with 18 new chapters. The Handbook of Food Preservation Third Edition remains the definitive resource on food preservation and is useful for practicing industrial and academic food scientists, technologists and engineers. The Peach Potato Aphid (Myzus persicae) Jamin Ali, 2023-11-22

Considered as economically significant pests with worldwide distribution, aphids feed on hundreds of cultivated and ornamental plants and cause considerable economic loss on a global scale. The peach potato aphid *Myzus persicae* is one of the most severe model aphid pests and successfully colonizes hundreds of plant species from 40 different families. It is a complex aphid pest known for its high reproductive rate, biotype formation, suppression of plant defenses and wide range of host plants. This book covers ecological aspects including life cycle, damage and host range which make aphids an

economically important pest A wide range of topics are covered including ecological aspects of *M. persicae* challenges with management approaches damage suppression of plant defenses evolution the mechanism of resistance against major classes of insecticides the potential of biological control and natural plant derived compounds plant defense elicitors as an alternative to the use of synthetic chemical insecticides to control *M. persicae* and integrated pest management for *M. persicae* As the peach potato aphid is a model aphid pest studying it helps to develop control strategies against the entire group of aphids Written for professionals as well as students teachers and researchers in the fields of entomology ecology and bioscience this book is an enriching new addition to its field Juvenile Hormones and Juvenoids James

Devilleers, 2013-05-06 Juvenile hormones JHs are a group of structurally related sesquiterpenes secreted by the insect corpora allata They affect most insect life cycle stages and physiological functions including embryogenesis larval and adult development metamorphosis reproduction metabolism diapause polyethism and migration Juvenoids such as methoprene hydroprene kinoprene pyriproxyfen and fenoxycarb are man made chemicals that mimic the structure and or activity of JHs selectively targeting and disrupting the endocrine system of insects They are particularly suited as larvicides for the control of pest and disease vectoring insects such as mosquitoes Juvenile Hormones and Juvenoids Modeling Biological Effects and Environmental Fate discusses the various modeling approaches that can be used to study the mechanism of action of JHs in insects and to estimate the adverse effects and the environmental fate of the juvenoids that mimic their activity This book is the third of the QSAR in Environmental and Health Sciences series but the first dedicated to the use of QSAR and other in silico techniques to provide these insights into JHs and their analogs With contributions by an international team of scientists the book begins with a historical survey of JHs and juvenoids It then discusses biosynthesis of sesquiterpenoids followed by chapters covering JH activity such as morph specific JH titers in crickets and JH analog activity including soldier specific organ development in termites and the role of methoprene in gene transcription The book examines modeling approaches applied to resistance to JH analogs to population dynamics of nontarget species in the presence of juvenoids and to SAR and QSAR of JH mimics The book concludes with a discussion on the use of multicriteria analysis for selecting insecticides for vector control *Biotremology: Studying Vibrational Behavior* Peggy S. M. Hill, Reinhard Lakes-Harlan, Valerio

Mazzoni, Peter M. Narins, Meta Virant-Doberlet, Andreas Wessel, 2019-11-29 This volume is a self contained companion piece to *Studying Vibrational Communication* published in 2014 within the same series The field has expanded considerably since then and has even acquired a name of its own biotremology In this context the book reports on new concepts in this fascinating discipline and features chapters on state of the art methods for studying behavior tied to substrate borne vibrations as well as an entire section on applied biotremology Also included are a historical contribution by pioneers in the field and several chapters reviewing the advances that have been made regarding specific animal taxa Other new topics covered are vibrational communication in vertebrates multimodal communication and biotremology in the classroom as well

as in art and music Given its scope the book will appeal to all those interested in communication and vibrational behavior but also to those seeking to learn about an ancient mode of communication *Biopesticides in Environment and Food Security: Issues and Strategies* Opender Koul,G.S. Dhaliwal,S. Khokhar,Ram Singh,2012-06-01 Drivers behind food security and crop protection issues vis vis the food losses caused by pests include rapid human population increase climate change loss of beneficial on farm biodiversity reduction in per capita cropped land water shortages and pesticide withdrawals Integrated pest management therefore becomes a compulsory strategy in agriculture which offers a toolbox of complementary crop and region specific crop protection solutions to address these rising pressures IPM aims at more sustainable solutions by using complementary technologies and one of them is the use of biopesticides including genetically modified cropping systems The aim is to reduce pests below economic thresholds utilizing key ecological services particularly biocontrol systems via semiochemicals biopesticides precision pest monitoring tools and rapid diagnostics In fact we are facing twin problems of environment and food security for the expanding population and it is necessary to ensure adequate pesticide free food The ecofriendly nature of biopesticide products suggests environment protection and safety for natural enemies and non target organisms However their adoption and use have lagged behind due to certain constraints like variable performance under field situations lack of quality standards and interest by big industrial houses and cumbersome regulatory procedures The present book is an attempt to critically debate over all these issues and suggest a road map for future

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