



Sustainable Insect Pest Management

Editors

S Ignacimuthu, s.j.

S Jayraj



Narosa

Sustainable Insect Pest Management

**Rajeev K. Upadhyay, K.G. Mukerji, B.P.
Chamola**



Sustainable Insect Pest Management:

Sustainable Insect Pest Management S. Ignacimuthu, S. Jayaraj, 2005 Overexploitation of natural resources and excessive chemicalization of agriculture have led to poor sustainability of farm production Indiscriminate use of agricultural chemicals has resulted in problems of pest resurgence and development of resistance on the one hand and has posed serious problems of environmental contamination through residues in food chain on the other hand The importance of achieving food production through the use of ecofriendly sustainable pest management techniques is being realized more and more in the recent past Eminent scientists from different research institutions have looked into this aspect seriously and have come up with many enlightening suggestions compiled together in this book **Biodiversity and Insect Pests** Geoff M.

Gurr, Stephen D. Wratten, William E. Snyder, 2012-04-12 Biodiversity offers great potential for managing insect pests It provides resistance genes and anti insect compounds a huge range of predatory and parasitic natural enemies of pests and community ecology level effects operating at the local and landscape scales to check pest build up This book brings together world leaders in theoretical methodological and applied aspects to provide a comprehensive treatment of this fast moving field Chapter authors from Europe Asia Africa Australasia and the Americas ensure a truly international scope Topics range from scientific principles innovative research methods ecological economics and effective communication to farmers as well as case studies of successful use of biodiversity based pest management some of which extend over millions of hectares or are enshrined as government policy Written to be accessible to advanced undergraduates whilst also stimulating the seasoned researcher this work will help unlock the power of biodiversity to deliver sustainable insect pest management Visit www.wiley.com/go/gurr/biodiversity to access the artwork from the book **Microbes for Sustainable Insect Pest**

Management Md. Aslam Khan, Wasim Ahmad, 2019-09-16 This Volume comprises 14 chapters in an attempt to provide the reader with available information on safe and effective use of entomopathogens Chapters in this book dealing with soil borne entomopathogens and their phylogeny also provide a review on most updated information of their isolation and molecular identification Employing fungal pathogens in biological control programmes plays a key role and conidial thermotolerance and oxidative stress are examined in separate chapters Entomopathogenic bacteria are able to kill their hosts quickly An important contribution concerns informations provided upon bacterial cytotoxic factors on insect haemocytes Nematodes are biological control agents safe to the environment The information with respect to their direct and indirect effects on non target organisms is provided Viruses as highly specific virulent candidates for use as biological insecticides are safe to non target species A separate chapter on the role of granuloviruses in IPM contributes a wealth of information Biopesticides in combination with synthetic insecticides are reported as effective economic and eco friendly Understanding their interactions will certainly promote their uses Finally emphasis has been given on reviewing synergistic and antagonistic interactions of microbial and chemical pesticides in other chapters *Sustainable Pests Management* D. Prasad, 2007 The rapid change in

the agroecosystem leaves a snag in the establishment of harmony of the disturbed ecosystem In nut shell man s frantic bid for more production tended him to be oblivious of the ecological implications of the measures adopted to achieve immediate benefit thus the urge for evolution of pest management in a sustainable manner There are 32 critical through provoking chapters by experts in relevant fields In Entomology chapters are Bioefficacy of certain botanicals against green pea aphid Acarine fauna associated with honeybee and their management Metarhizium anisoplia a potential biopesticide Biological control as a means of pest management strategy Conventional and non conventional botanicals Ecofriendly pest management in fruit pests Pheromone for pest management Population dynamic of Gallinaceous insect Management of insect pest of stored products Natural pesticides from Lac host plants Pest complex of jute Botanicals for pest management Role of proteinase inhibitors in insect control and Integrated pest and disease management of viral diseases in rice Other virus on agricultural crops Yellow vein mosaic virus on Okra Management of maize stalk rot Current status of seed mycoflora of small millets Postharvest diseases of fruits and vegetables Ecofriendly management of nematodes Indigenous knowledge for crop pests GIS and GPS systems for pest management Survival strategies of parthenium and its management Seasonality of *Nomuraea rileyi* Green manure for sustainable production Ecofriendly management of late blight disease These chapters point towards the sustainability of pests management Contents Chapter 1 Bioefficacy of Certain Botanical Insecticides Against Green Pea Aphid *Acyrtosiphon pisum* on Pea Agro ecosystem in Manipur by T Shantibala and T K Singh Chapter 2 Acarine Fauna Associated with Honeybees and Their Management by Rachna Gulati and V K Kalra Chapter 3 *Metarhizium anisopliae* A Potential Biopesticide for Insect Pest Management by V Rachappa R K Patil S S Navi and S Lingappa Chapter 4 Biological Control An Eco friendly Pest Management Strategy by K Elanchezhyan Chapter 5 Conventional and Non Conventional Botanicals as Insect Control Agent by Deb Prasad Ray Gita Kulshrestha and D Prasad Chapter 6 Eco friendly Approaches for the Management of Fruit Pests by D R Sharma Chapter 7 Pheromone A Modern Weapon in Insect Pest Management by R Sheeba Jasmine J Stanley and S Chandrasekaran Chapter 8 Population Dynamics and Distribution of a Gallinaceous Insect *Trioza hirsuta* Hemiptera Psyllidae Infesting *Terminalia tomentosa* W Chapter 9 Management of Insect Pests of Stored Products with Plant Products in Nigeria by M O Ashamo Chapter 10 Viral Diseases of Rice and Their Management by S K Tripathi Chapter 11 Management of Important Plant Viruses in Indian Agriculture by K K Biswas and Arnab Gupta Chapter 12 Yellow Vein Mosaic on Okra Dreaded Disease by Pushpa D Patil and S S Mehetre Chapter 13 Management of Bacterial Diseases of Rice by S K Tripathi and A K Jain Chapter 14 Current Status of Seed Mycoflora of Small Millet Crops and Their Management by B K Jain and S K Tripathi Chapter 15 Postharvest Diseases of Fruits and Vegetables and Their Management by Dinesh Singh and R R Sharma Chapter 16 Epidemiology and Management of Post Flowering Stalk Rots of Maize by Meena Shekhar and Sangit Kumar Chapter 17 Potential Natural Pesticides from Lac Host Plants by S Srivastava D Prasad D Saha and Govind Pal Chapter 18 Biofertilizers for Sustainable Vegetable Production by Anita Singh Y

V Singh and Shashi Kamal Chapter 19 Ecological Strategies for Management of Phytonematodes by D Prasad Chapter 20 Pest Complex of Jute and Their Management by S Rahman and M R Khan Chapter 21 Indigenous Knowledge for Managing Crop Pests by A K Kanojia and Sumitra Arora Chapter 22 Geographic Information System and Global Positioning System for Managing Crop Pests by A K Kanojia Chapter 23 Survival Strategies of Parthenium hysterophorus and its Management by Manoj S Paul and Jai Knox Chapter 24 Integrated Weed Management by T K Das Chapter 25 Seasonality of Nomuraea rileyi in Northern Transitional Belt of Karnataka by V Rachappa and S Lingappa Chapter 26 Use of Green Manure Crops in Sustainable Vegetable Production by Anita Singh and B P Singh Chapter 27 Evaluation of Plant Extracts for Control of Seedling Blight of Eleusine coracana Finger millet by J S Arekar D R Pawar and M S Joshi Chapter 28 Botanicals and Their Role in Insect Pest Management by Poduri Nagaraja Rao Chapter 29 Role of Proteinase Inhibitors in Insect Control by Rekha Kumar R Chauhan and Ram Singh Chapter 30 Integrated Pest and Disease Management in Apple by S S Singh U S Singh and N C Nainwal Chapter 31 Eco friendly Management of Late Blight Disease of Potato in the Plains of West Bengal by Amitava Basu Chapter 32 Safeguard Green Cradle The Lap for Plants by S Murugan and R Anand

Ecofriendly Pest Management for Food Security Omkar Ph.D.,2016-02-03 Ecofriendly Pest Management for Food Security explores the broad range of opportunity and challenges afforded by Integrated Pest Management systems The book focuses on the insect resistance that has developed as a result of pest control chemicals and how new methods of environmentally complementary pest control can be used to suppress harmful organisms while protecting the soil plants and air around them As the world's population continues its rapid increase this book addresses the production of cereals vegetables fruits and other foods and their subsequent demand increase Traditional means of food crop production face proven limitations and increasing research is turning to alternative means of crop growth and protection Addresses environmentally focused pest control with specific attention to its role in food security and sustainability Includes a range of pest management methods from natural enemies to biomolecules Written by experts with extensive real world experience

Molecular Approaches for Sustainable Insect Pest Management Omkar,2022-01-01 This book offers a range of environmentally benign molecular mechanisms which are safer alternative strategies for effective insect pest management In modern era of biotechnology there has been much advancement in the field of molecular biology where many more techniques have evolved which can be helpful in the field of pest management too Plant resistance development of transgenic plants and many more techniques are being considered the panacea to pest problems On the other hand there are wide spread concerns of the safety of biotechnological interventions with nontarget organisms including humans While the world stands divided on the ethical issues of these approaches and the many safety concerns scientists believe that well thought of biotechnological interventions are probably the only safest ways possible for reducing pest attacks on crops It explores various techniques and aspects related to molecular pathways for crop pest control This book is a useful resource for postgraduate students and researchers of agriculture sciences plant pathology

and plant physiology It is also useful for policy planners in agriculture

Integrated Pest Management and Sustainable Agriculture, an Entomological Approach Suresh C. Goel,1996

Key factors limiting sustainable insect pest management in soybeans M. E. O'Neal,2018

Urban Insect Pests Partho Dhang,2014-09-14 A companion to Urban Pest Management this book builds on the issues of insect pests in urban settings to discuss control strategies that look beyond products From an environmental and health perspective it is not always practical to spray chemicals indoors or in urban settings so this work discusses sustainable control and best practice methods for managing insects that are vectors of disease nuisance pests and the cause of structural damage

Ecologically Based Integrated Pest Management Opende Koul,Gerrit W. Cuperus,2007-01-08 Integrated pest management IPM is a sustainable approach to manage pests through biological cultural physical and chemical means in order to minimize economic and environmental injury caused by such pests Any comprehensive IPM programme requires an understanding of the ecological relationships between crops pests natural enemies and the environment This book presents a series of review chapters on ecologically based IPM Topics covered range from the ecological effects of chemical control practices to the ecology of predator prey and parasitoid host systems

Manage Insects on Your Farm Miguel A. Altieri,Clara I. Nicholls,Marlene Fritz,2005 While every farming system is unique the principles of ecological pest management apply universally Manage Insects on Your Farm highlights ecological strategies that improve your farms natural defenses and encourage beneficial insects to attack your worst pests Learn about the principles of ecologically based pest management and the strategies of farmers around the world to address insect problems Minimize insect damage with wise soil management and identify beneficial insects to put these good bugs to work for you Examples of successful pest management strategies sprinkled throughout the book will stimulate your imagination to address insect problems and develop a more complex more diverse ecosystem on your farm

Sustainable Management of Invasive Pests in Africa Saliou Niassy,Sunday Ekesi,Lorna Migiro,Washington Otieno,2020-07-13 Invasive species generally affect economically important crops thus affecting the livelihoods of millions of people along crop value chains Typically invasive species have high migratory capabilities and because of plant material exchanges made during trade they cannot be contained by one country Usually African countries react after a pest has invaded and established itself in the country making the cost of mitigating the pest even more expensive This book presents a pan African view of the impacts of invasive insect pests on agriculture and of how invasive species impact on productivity in Africa It not only describes their importance but also presents a diversity of research findings in the field ranging from the use of early warning and monitoring systems for quarantine purposes agricultural extension all the way to control strategies The IPM arsenal presented in this book includes the use of botanical bioactive compounds semiochemicals resistant varieties biological control agents such as entomopathogens endophytes predators and natural enemies Aspects of technology transfer strategies regional coordination and farmers perceptions have not been overlooked because these affect the adoption of

mitigation strategies The book also presents measures that would help agricultural research services to estimate the damage and take actions for preparedness and readiness to face invasive insect pests This starts with a basic knowledge of taxonomy to enable concerned persons to describe the insects and the vast inventory of affected crops Physiological and ecological aspects of invasive pests are strongly highlighted to strengthen Integrated Pest Management Strategies The threat of invasive species will remain permanent therefore the book encourages knowledge exchange and collaboration between researchers and scientists on the continent while encouraging the establishment of a platform or a fund for preparedness and rapid response **Insecticides** Habib Ali,Adnan Shah,Muhammad Bilal Tahir,Sajid Fiaz,Basharat Ali,2023-12-13

Insecticides Advances in Insect Control and Sustainable Pest Management offers an in depth exploration of insect control showcasing the latest scientific advancements practical applications and sustainable solutions Insects play a crucial role in our ecosystem but their presence can also present significant challenges to agriculture public health and the environment This book serves as a comprehensive guide to understanding the cutting edge approaches to insect control providing valuable insights into the development and implementation of innovative insecticides Authored by a team of renowned experts the book delves into the fascinating world of insect biology examining the intricate mechanisms that drive their behavior and evolution With a strong focus on sustainable pest management the book emphasizes environmentally friendly methods that minimize the impact on non target organisms and reduce chemical residues in the environment Within the pages of this book readers will discover a wealth of information on emerging insecticide technologies including novel chemical compounds biological agents and genetic engineering approaches The effectiveness safety profiles and modes of action of these advancements are thoroughly analyzed equipping professionals and researchers with the necessary knowledge to make informed decisions and develop integrated pest management strategies Whether you are a scientist student or practitioner in the fields of entomology agriculture or public health **Insecticides Advances in Insect Control and Sustainable Pest Management** is an essential resource that provides a comprehensive understanding of insect control It addresses critical issues such as insect resistance regulatory frameworks and the social and economic implications of insecticide use paving the way for sustainable pest management practices Embark on a journey through the intricate world of insects and explore the innovative solutions designed to control them With up to date research practical applications and a focus on sustainability this book is an invaluable companion for navigating the complex realm of insect control in the 21st century *Integrated Pest Management* David Pimentel,Rajinder Peshin,2014-04-10 The book deals with the present state and problems of integrated pest management as relating to stakeholder acceptance of IPM and how integrated pest management can become a sustainable practice The discussions include using less pesticides and the possibility of eliminating pesticides from agricultural practice New Horizons in Insect Science: Towards Sustainable Pest Management Akshay Kumar Chakravarthy,2015 Insect science is fast changing as insects are evolving to a plethora of newer chemical

molecules climate change management tactics and transformation of the landscapes Through the International Conference the editors have attempted to gather together newer aspects of Insect Sciences like Insect Taxonomy DNA Barcoding Physiology Toxicology Vectors and their Management Molecular Biology RNA interference in Pest Management Semiochemicals and Pest Management using Host Plant Resistance and Biological Control appropriated especially for the developing world Both basic and applied aspects of insect science have been included to stimulate comprehensive studies on insect science The book not only deals with insect science but also environmental and ecological aspects in the hope that the book will be of immense use to students researchers extension workers planners administrators farmers and other end users The Chapters on diversified aspects of Insect Science are contributed by leading scientists for the coming 21st century in which entomology is witnessing a dramatic advancement in management of pests through in depth investigations The dimensions of Insect Science covered in the book are pest management approaches that can be adopted worldwide with ascent on sustainability

Sustainable Management of Arthropod Pests of Tomato Waqas Wakil, Gerald E Brust, Thomas Perring, 2017-11-19 Sustainable Management of Arthropod Pests of Tomato provides insight into the proper and appropriate application of pesticides and the integration of alternative pest management methods The basis of good crop management decisions is a better understanding of the crop ecosystem including the pests their natural enemies and the crop itself This book provides a global overview of the biology and management of key arthropod pests of tomatoes including arthropod vectored diseases It includes information that places tomatoes in terms of global food production and food security with each pest chapter including the predators and parasitoids that have specifically been found to have the greatest impact on reducing that particular pest In depth coverage of the development of resistance in tomato plants and the biotic and abiotic elicitors of resistance and detailed information about the sustainable management of tomato pests is also presented Provides basic biological and management information for arthropod pests of tomato from a global perspective encompassing all production types field protected organic Includes chapters on integrated management of tomato pests and specific aspects of tomato pest management including within protected structures and in organic production Presents management systems that have been tested in the real world by the authors of each chapter Fully illustrated throughout with line drawings and color plates that illustrate key pest and beneficial arthropods associated with tomato production around the world

Microbes for Sustainable Insect Pest Management Md. Aslam Khan, Wasim Ahmad, 2021-04-12 The search for new strategies of pest control with safer molecules is currently of great importance and interest Microbe mediated biological crop protection is an attractive and promising technology with no concern for a negative impact on the environment and biodiversity Microbial hydrolytic enzymes such as proteases chitinases lipases etc are attractive for this purpose They present toxic properties and act synergistically to control pest attacks Also some metabolites that microorganisms produce for their survival or defense can be explored and exploited for plant protection The focus of this Volume is on the potential of

microbial hydrolytic enzymes and their metabolites in agroecosystem functioning Subsequent chapters review topics such as microbial hydrolytic enzymes as powerful management tools chitinases in IPM of agro horticultural crops metabolites as pesticides and the importance of the metabolites of entomopathogenic fungi metabolites and virulence factors Other topics include microbial based nanoparticles recombinant DNA technologies to improve the efficacy of microbial insecticides the effects of entomopathogens on insect predators and parasitoids and the management of major vegetable insect pests This Volume provides detailed accounts on the safe use of microbial products for sustainable management of insect pests Its aim is to build solid foundations for the students teachers and researchers interested in eco friendly management of important insect crop pests

Biocontrol Potential and its Exploitation in Sustainable Agriculture Rajeev K. Upadhyay, K.G. Mukerji, B.P. Chamola, 2012-12-06 Plant based Biotechnology has come to represent a means of mitigating the problems of global food security in the twenty first century Products and processes in agriculture are increasingly becoming linked to science and cutting edge technology to enable the engineering of what are in effect designer plants One of the most successful non chemical approaches to pest management and disease control which seeks a solution in terms of using living organisms to regulate the incidence of pests and pathogens providing a natural control while still maintaining the biological balance with the ecosystem This volume describes the various biological agents used to control insect pests of a variety of crops Readers may also be interested in Volume 1 Crop diseases Weeds and Nematodes published in December 2000 ISBN 0 306 46460 8

Sustainable Oil Palm Insect Pest Management in Malaysia Siti Ramlah Ahmad Ali, 2018

Sustainable Pest Management in Date Palm: Current Status and Emerging Challenges Waqas Wakil, Jose Romeno Faleiro, Thomas A. Miller, 2015-12-21 Date palm *Phoenix dactylifera* L Arecales Areaceae is an important palm species cultivated in the arid regions of the world since pre historic times and traditionally associated with the life and culture of the people in the Middle East and North Africa which are the pre dominant date palm growing regions worldwide The Food and Agriculture Organization of the UN estimates that there are over 100 million date palms with an annual production of over 7.5 million tonnes A recent report on the arthropod fauna of date palm enlists 112 species of insects and mites associated with date palm worldwide including 22 species attacking stored dates Enhanced monoculture of date palm in several date palm growing countries coupled with climate change unrestrained use of chemical insecticides and extensive international trade is likely to impact the pest complex and the related natural enemies in the date agro ecosystems In view of the importance of date palm as an emerging crop of the future and the need to develop and deploy ecologically sound and socially acceptable IPM techniques this book aims to comprehensively address issues related to the biology and sustainable management of major insect and mite pests of date palm by assessing the current IPM strategies available besides addressing emerging challenges and future research priorities The issues pertaining to the role of semiochemicals in date palm IPM involving new strategies revolving around attract and kill and push pull technologies phytoplasmas and their insect vectors with

implications for date palm innovative methods for managing storage pests of dates and knowledge gaps in devising sustainable strategies for the management of red palm weevil *Rhynchophorus ferrugineus* Olivier are also addressed

Decoding **Sustainable Insect Pest Management**: Revealing the Captivating Potential of Verbal Expression

In a time characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its power to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Sustainable Insect Pest Management**," a mesmerizing literary creation penned by way of a celebrated wordsmith, readers set about an enlightening odyssey, unraveling the intricate significance of language and its enduring affect our lives. In this appraisal, we shall explore the book is central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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