




Plant resistance to arthropods

*Molecular
and Conventional
Approaches*

C. Michael Smith

 Springer

Plant Resistance To Arthropods Molecular And Conventional Approaches

Hari C Sharma



Plant Resistance To Arthropods Molecular And Conventional Approaches:

Plant Resistance to Arthropods C. Michael Smith, 2005-11-24 Arthropod resistant crops reduce pesticide pollution alleviate hunger and improve human nutrition This book reviews new information on environmental advantages of plant resistance transgenic resistance molecular bases of resistance and use of molecular markers to map resistance genes

Experimental Techniques in Host-Plant Resistance Akshay Kumar Chakravarthy, Venkatesan Selvanarayanan, 2019-04-24 The earliest land plants evolved around 450 million years ago from aquatic plants devoid of vascular systems The diversification of flowering plants angiosperms during the Cretaceous period is associated with speciation in insects Early insect herbivores were mandibulate but the evolution of vascular plants led to the co evolution of other forms of herbivory such as leaf feeding sap sucking leaf mining tissue borer gall forming and nectar feeding Plant defense against biotic stress is an adaptive evolution by plants to increase their fitness Plants use a variety of strategies to defend against damage caused by herbivores Plant defense mechanisms are either inbuilt or induced Inbuilt mechanisms are always present within the plant while induced defenses are produced or mobilized to the site where a plant is injured Induced defense mechanisms include morphological physiological changes and production of secondary metabolites Host plant resistance HPR is one of the eco friendly methods of pest management It protects the crop by making it less suitable or tolerant to the pest While books on theoretical aspects of HPR are available an exclusive book on the practical aspects is lacking There is a wide gap between the theory and the experimental procedures required for conducting studies on plant resistance for the post graduate students and young researchers A dire need for a book on practical aspects was strongly felt Initially a practical manual was prepared which eventually evolved into the present book We hope this book provides information on major aspects of screening crop germplasm sampling techniques genetic and biochemical basis of HPR behavioural studies on pheromone and plant volatiles and some of the recent approaches in HPR Further the references provide the scientific articles and books as additional information to readers and workers alike Biotechnological Approaches for Pest Management and Ecological Sustainability Hari C Sharma, 2008-12-17 Due to increasing problems occurring from massive applications of pesticides such as insect resistance to pesticides the use of biotechnological tools to minimize losses from insect pests has become inevitable Presenting alternative strategies for alleviating biotic stresses Biotechnological Approaches for Pest Management and Ecological Sustain **Integrated management of insect pests: Current and future developments** Emeritus Prof. Marcos Kogan, Emeritus Prof. E. A. Heinrichs, 2019-10-29 Particular focus on advances in understanding insect species and landscape ecology which provide the foundations for effective IPM Covers latest research on classical conservation and augmentative biological control Reviews key developments in use of entomopathogenic fungi viruses and nematodes **Integrated Pest Management** Rajinder Peshin, Ashok K. Dhawan, 2009-04-12 The book Silent Spring written by Rachel Carson in 1962 is considered the landmark in changing the

attitude of the scientists and the general public regarding the complete reliance on the synthetic pesticides for controlling the ravages caused by the pests in agriculture crops For about ve decades the Integrated Pest Mana ment IPM is the accepted strategy for managing crop pests IPM was practiced in Canet e Valley Peru in 1950s even before the term IPM was coined Integrated Pest management Innovation Development Process Volume 1 focuses on the recog tion of the dysfunctional consequences of the pesticide use in agriculture through researchanddevelopmentoftheIntegratedPest Managementinnovations Thebook aims to update the information on the global scenario of IPM with respect to the use of pesticides its dysfunctional consequences and the concepts and advan ments made in IPM systems This book is intended as a text as well as reference material for use in teachingthe advancements made in IPM The book provides an interdisciplinary perspective of IPM by the forty three experts from the eld of entomology plant pathology plant breeding plant physiology biochemistry and extension education The introductory chapter Chapter 1 gives an overview of IPM initiatives in the developed and developing countries from Asia Africa Australia Europe Latin America and North America IPM concepts opportunities and challenges are d cussed in Chapter 2

Instant Insights: Integrated pest management in cereal cultivation F. G. Horgan,Abie Horrocks,Melanie Davidson,Paul Horne,Jessica Page,Bonnie Pendleton,Emeritus Prof. E. A. Heinrichs,Dr John E. Foster,2022-12-20 This collection features four peer reviewed reviews on integrated pest management IPM in cereal cultivation The first chapter describes a holistic approach to IPM using knowledge of the natural regulation of herbivore and weed populations and of natural succession in agricultural wetlands It also highlights the need for an improved understanding of rice ecosystems in a holistic manner to ensure the economic and environmental sustainability of rice production The second chapter provides a brief overview of IPM and reviews the range of control methods available to growers including biological cultural and chemical The chapter considers the implementation of IPM programmes in wheat production and utilises a case study from New Zealand to demonstrate a successful example of it The third chapter discusses key insect pests of sorghum their life cycles and their impact on crop productivity and performance The chapter reviews the use of IPM programmes as a sustainable alternative to controlling pest infestations without the need for insecticides The final chapter examines host plant resistance as an ecological approach to managing crop pests and considers the process of evaluating resistance on the basis of insect behavior The chapter also looks at breeding rice for resistance to insect pests and considers the constraints on the development and deployment of insect resistant plant technology

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