

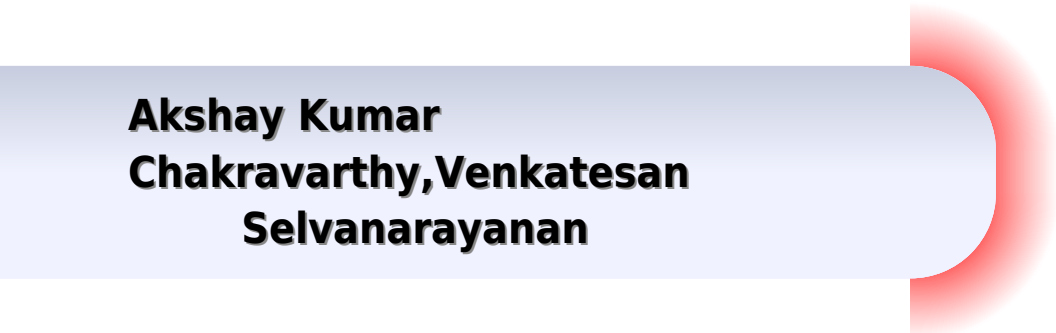
# HOST-PLANT RESISTANCE TO INSECTS

- Insect-resistant varieties of: corn, cotton, tobacco, tomato, potato
- 2 methods of gene insertion into plants
- Advantages over insecticides
- Exacerbation of the situation by negatively affecting predators
- Environmental risks from the use of transgenic plants:
  - Genes may transfer to other plants
  - Plant may become weedy itself
  - Non-target organisms may be affected



# Host Plant Resistance To Insects

**Akshay Kumar  
Chakravarthy, Venkatesan  
Selvanarayanan**



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**Plant Resistance to Insects** C. Michael Smith, 1989-10-02 What is plant resistance to insects How is plant resistance to insects obtained How can plant resistance to insects be utilized **Host Plant Resistance to Insects** Niranjana Panda, Gurdev S. Khush, 1995 Historical overview of host plant resistance Crop plant and insect diversity Secondary plant metabolites for insect resistance Insect plant interactions Host plant selection Mechanisms of resistance Factors affecting expression of resistance Screening for insect resistance Plant resistance and insect pest management Genetics of resistance to insects Breeding for resistance to insects *Principles of Host-plant Resistance to Insect Pests* Niranjana Panda, 1979

Breeding Plants Resistant to Insects Fowden G. Maxwell, Peter Randolph Jennings, 1980 Plant resistance to insects Types and classification of resistance Biochemical and morphological bases of resistance Genetic factors affecting expression and stability of resistance Environmental factors influencing the magnitude and expression of resistance Insect behavior and plant resistance Insects and plant pathogens The pathosystem concept The problem of variable pests The use of plant insect models Resistant varieties in pest management systems Germplasm resources and needs Breeding systems for resistance breeding for resistance in specific crops Breeding approaches in alfalfa Breeding approaches in cassava Breeding cotton for resistance to insect pests Breeding approaches in rice Breeding sorghums resistant to insects Breeding forest trees resistance to insects Breeding approaches in wheat Future opportunities and directions **Host Plant Resistance to Insects** G. S. Dhaliwal, 2005 Contributed articles **Host-plant Resistance to Insect Pests**, 2024 *Techniques in Host Plant Resistance to Insects* Akshay Kumar Chakravathy, 2012 **Molecular Host Plant Resistance to Pests** S. Sadasivam, B. Thayumanayan, 2003-07-15 Molecular Host Plant Resistance to Pests examines environmentally safe and integrated techniques for effective pest management Offering more than 1500 references for further exploration of the topic this reference details the bioactivity biosynthetic pathways mechanisms of action and genetic regulation for improved methods of crop protection a *Host Plant Resistance to Pests* Paul Arthur Hedin, American Chemical Society. Division of Pesticide Chemistry, 1977 Experimental Techniques in Host-Plant Resistance Akshay Kumar Chakravathy, 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

**Biochemical Bases of Host Plant Resistance to Insects** T. N. Ananthakrishnan,1996 *Advances in Host Plant Resistance to Insects* G. S.

Dhaliwal,V. K., Dilawari,1993 **Plant Resistance to Insects in Major Field Crops** Sarwan Kumar,Michael

Furlong,2024-01-13 This edited book is a comprehensive collection of information on host plant resistance to insects in major field crops The focus of the book is to make the audience aware of the latest developments in host plant resistance in major field crops and how it can be used for sustainable pest management solutions It deals with the insect plant interactions plant defence responses to herbivore attacks plant phenotyping and breeding for insect resistance Insects are an important group of biotic stresses that limit crop productivity in many regions of the world At present they are largely managed by synthetic insecticides which have their own adverse effects including insecticide resistance pest resurgence environmental pollution and pesticide residues to name a few Thus there is an urgent need to develop alternate pest management strategies that can provide a sustainable solution to pest problems Host plant resistance is considered an important pest management strategy as it offers an effective economical and environmental friendly solution to pest problems This book is of interest to postgraduate students crop entomologists and breeders working on host plant resistance to insect pests It is also valuable for teachers researchers and climate change scientists The book serves as an additional reading material for undergraduate and graduate students of agriculture ecology and environmental sciences Agricultural experts from around the world as well as policymakers will also find this book helpful Molecular Host Plant Resistance to Pests S. Sadasivam,B.

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**Glossary Of Plant Derived Insect Deterrents** Martin Jacobson,2019-07-23 This handbook brings together in one place sources

which entomologists chemists botanists insect ecologists physiologists and pharmacologists may consult for information to supplement that reported herein on the subject of plant derived feeding deterrents

**Breeding Insect Resistant Crops for Sustainable Agriculture** Ramesh Arora, Surinder Sandhu, 2017-10-16 This book reviews and synthesizes the recent advances in exploiting host plant resistance to insects highlighting the role of molecular techniques in breeding insect resistant crops It also provides an overview of the fascinating field of insect plant relationships which is fundamental to the study of host plant resistance to insects Further it discusses the conventional and molecular techniques utilized useful in breeding for resistance to insect pests including back cross breeding modified population improvement methods for insect resistance marker assisted backcrossing to expedite the breeding process identification and validation of new insect resistance genes and their potential for utilization genomics metabolomics transgenesis and RNAi Lastly it analyzes the successes limitations and prospects for the development of insect resistant cultivars of rice maize sorghum and millet cotton rapeseed legumes and fruit crops and highlights strategies for management of insect biotypes that limit the success and durability of insect resistant cultivators in the field Arthropod pests act as major constraints in the agro ecosystem It has been estimated that arthropod pests may be destroying around one fifth of the global agricultural production potential production every year Further the losses are considerably higher in the developing tropics of Asia and Africa which are already battling severe food shortage Integrated pest management IPM has emerged as the dominant paradigm for minimizing damage by the insects and non insect pests over the last 50 years Pest resistant cultivars represent one of the most environmentally benign economically viable and ecologically sustainable options for utilization in IPM programs Hundreds of insect resistant cultivars of rice wheat maize sorghum cotton sugarcane and other crops have been developed worldwide and are extensively grown for increasing and or stabilizing crop productivity The annual economic value of arthropod resistance genes developed in global agriculture has been estimated to be greater than US 2 billion Despite the impressive achievements and even greater potential in minimizing pest related losses only a handful of books have been published on the topic of host plant resistance to insects This book fills this wide gap in the literature on breeding insect resistant crops It is aimed at plant breeders entomologists plant biotechnologists and IPM experts as well as those working on sustainable agriculture and food security

*1974 Intersession Symposium on Host Plant Resistance to Insects*, 1974

**Insect Resistance in Crop Plants** Reginald Henry Painter, 1951 *Mechanisms of Host Plant Resistance to Insects in Burley Tobacco* D. Jones, G. A. Jones, D. M. Jackson, 1985\* *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*

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