

# Biological control of plant pathogens

Christine Roath

## **Biological Control Of Plant Pathogens**

Ashok Pandey, K.G. Mukerji

#### **Biological Control Of Plant Pathogens:**

Biological Control of Soil-borne Plant Pathogens David Hornby, R. James Cook, 1990 This book contains papers on biological control of soil borne plant pathogens presented in section V and related sections of the 5th International Congress of Plant Pathology Kyoto 1988 The chapters cover progress towards biological control in the last twenty five years mechanisms and management of biological control influence of cultural practices and ecological aspects resistance and pathogenicity and strategies for improving biological control Fungi in Biological Control Systems M. N. Burge, 1988 Bundeling van artikelen van onderzoekers uit Groot Brittannie Australie en de V S betreffende de biologische bestrijding van en door schimmels Aandacht wordt besteed aan de bestrijding van insekten onkruiden ziekteverwekkers en aaltjes technieken van massaproduktie van insektenetende schimmels de mogelijkheden met genetische manipulatie bij schimmels en de mogelijkheden van schimmels in de geintegreerde gewasbescherming A collection of articles on the biological control of plant pests with fungi the mass production of fungi and the possibilitie of fungi in integrated pest control **Control of Plant Pathogens** Kenneth Frank Baker, R. James Cook, 1974-01-01 Biological Control of Plant Diseases Ashok Pandey, K.G. Mukerji, 2024-11-01 Prevent agricultural loss with natural disease controls that don t harm the environmentor the people who live in it Despite the worldwide use of chemicals and pesticides to control the devastating effects of plant disease the international agribusiness market still suffers extensive economic losses each year Biological Control of Plant Diseases offers natural alternatives to the synthetic fungicides pesticides herbicides and insecticides that have not only failed to stop pests and pathogens but have raised serious safety and environmental concerns The world's leading plant pathologists examine the use of antagonistic microorganisms inherent resistance and natural fungicides for plant protection that s safe economical and effective Biological Control of Plant Diseases presents up to date research findings on disease management to provide you with a single source reference text for developing a sustainable ecosystem that doesn't depend on harmful and unhealthy agrochemicals This unique book acts as a catalyst for change presenting fresh ideas and innovative strategies for finding meaningful solutions to the problems of disease control Contributors working in the areas of plant protection microbiology plant pathology biotechnology ecology and food safety examine topics that include the application of plant tissue culture competitive root colonization mycorrhiza in biocontrol microbial siderophores antagonism and genetic regulation Topics addressed in Biological Control of Plant Diseases include soil borne pathogens rhizobacteria organic acids white rot Trichoderma and Agrobacterium phyllosphere manure based microbes gray mold disease major fungal diseases Biological Control of Microbial Plant Pathogens Richard Ewen mycoparasitism microbial chitinases and much Campbell, 1989 The basis of biocontrol in microbiology ecology and plantpathology is described and many examples of control measures in commercial use or development are given Biotechnological Approaches in Biocontrol of Plant **Pathogens** K.G. Mukerji, B. P. Chamola, Rajeev K. Upadhyay, 1999-03-31 Biological control offers a promising alternative to

chemical control which can have adverse environmental implications This volume contains 16 articles describing the most modern topics in biocontrol of plant pathogens including risk analysis for the release of microbial antagonists genetic engineering and application of tissue culture **Biological Control of Plant Pathogens** Kenneth F. Baker, R. James Cook, 1978 *Plant Defence: Biological Control* Jean Michel Mérillon, Kishan Gopal Ramawat, 2011-10-03 To meet the challenge of feeding ever increasing human population efficient economical and environment friendly disease control methods are required Pests are responsible for heavy crop losses and reduced food supplies poorer quality of agricultural products economic hardship for growers and processor Generally chemical control methods are neither always economical nor are they effective and may have associated unwanted health safety and environmental risks Biological control involves use of beneficial microorganism to control plant pathogens and diseases they cause and offers an environmental friendly approach to the effective management of plant diseases This book provides a comprehensive account of interaction of host and its pathogens induced host resistance development of biological control agents for practical applications the underlying mechanism and signal transduction The book is useful to all those working in academia or industry related to crop protection

How Research Can Stimulate the Development of Commercial Biological Control Against Plant Diseases Antonieta De Cal, Paloma Melgarejo, Naresh Magan, 2021-01-09 Biological control has become an attractive alternative strategy for the control of plant diseases to reduce the excessive use of agrochemicals and its health hazards But a significant gap still exists between basic research involving the discovery of a biocontrol agent and its development and implementation under commercial conditions Because BCAs unlike chemical a m need to establish colonize survive and perform their metabolic activity to control diseases In order to move a biocontrol agent from the laboratory to the market place requires many different disciplines and people with a variety of expertise Research can stimulate the development of commercial biocontrol agents Chapter 16 is available open access under a Creative Commons Attribution 4 0 International License via link springer com Biological Control of Plant Diseases Ashok Pandey, K.G. Mukerji, 2006-12-05 Prevent agricultural loss with natural disease controls that don't harm the environment or the people who live in it Despite the worldwide use of chemicals and pesticides to control the devastating effects of plant disease the international agribusiness market still suffers extensive economic losses each year Biological Control of Plant Diseases offers natural alternatives to the synthetic fungicides pesticides herbicides and insecticides that have not only failed to stop pests and pathogens but have raised serious safety and environmental concerns The world's leading plant pathologists examine the use of antagonistic microorganisms inherent resistance and natural fungicides for plant protection that s safe economical and effective Biological Control of Plant Diseases presents up to date research findings on disease management to provide you with a single source reference text for developing a sustainable ecosystem that doesn t depend on harmful and unhealthy agrochemicals This unique book acts as a catalyst for change presenting fresh ideas and innovative strategies for finding meaningful solutions to the problems of

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