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Biocontrol of
Plant Diseases
by *Bacillus subtilis*
Basic and Practical Applications

Makoto Shoda



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Biocontrol Of Plant Diseases

K. G. Mukerji, K.L. Garg



Biocontrol Of Plant Diseases:

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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 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 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, mycoparasitism, microbial chitinases, and much more.

Biocontrol Of Plant Diseases K. G. Mukerji, K.L. Garg, 2023-01-06 First Published in 1988, this set offers a comprehensive insight into controlling diseases in plants. Carefully compiled and filled with a vast repertoire of notes, diagrams, and references, this book serves as a useful reference for biologists, horticulturalists, other practitioners in their respective fields.

Biological Management of Diseases of Crops P. Narayanasamy, 2013-06-28 Biological disease management tactics have emerged as a potential alternative to chemical application for containing crop

diseases Biotic and abiotic biological control agents BCAs have been demonstrated to be effective against diseases caused by microbial plant pathogens Combination of biotic and abiotic agents leads to synergism and consequent improvement in the effectiveness of disease control It is essential to assay the biocontrol potential of all isolates species of fungal bacterial and viral biocontrol agents by different techniques in vitro and under greenhouse and field conditions and to precisely identify and differentiate the most effective isolates from less effective ones by employing biological immunological and nucleic acid based assays

Biological Control of Microbial Plant Pathogens Richard Ewen Campbell,1989 The basis of biocontrol in microbiology ecology and plant pathology 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 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 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 mycoparasitism microbial chitinases and much more Biological Control of Plant Diseases is an invaluable reference resource for extension scientists and academics working in botany biology entomology ecology agriculture horticulture plant pathology and the environmental sciences

Biological Control of Plant Diseases E.C. Tjamos,G.C. Papavizas,R.J. Cook,2013-06-29 The papers contained in this book were presented at a NATO Advanced Research Workshop ARW held at Cape Sounion Athens Greece 19 24 May 1991 The twenty eight more

comprehensive papers represent the key subjects of the ARW covered by invited speakers The thirty four short papers presented in a research format are contributions of those invited to participate in the ARW There was a total of 70 participants from 21 countries The objectives of the ARW were as follows to review current knowledge of biological control of plant diseases and plant parasitic nematodes with emphasis on mechanisms at the molecular cellular organismal and ecosystem level to examine and expand on current concepts and synthesize new concepts to identify and prioritize limitations in the use of biological control for plant diseases and nematodes and the scientific research needed to overcome these limitations and to develop strategies for biological control through management of resident agents or introduction of natural or modified agents

BIOCONTROL OF PLANT DISEASES K. G. Mukerji, K.L. Garg, 1988-05-31 First Published in 1988 this set offers a comprehensive insight into controlling diseases in plants Carefully compiled and filled with a vast repertoire of notes diagrams and references this book serves as a useful reference for biologists horticulturalists other practitioners in their respective fields

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](https://www.springer.com)

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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

Allelochemicals: Biological Control of Plant Pathogens and Diseases Inderjit, K.G. Mukerji, 2006-05-25 Biological control of plant diseases and plant pathogens is of great significance in forestry and agriculture There is great incentive to discover biologically active natural products from higher plants that are better than synthetic agrochemicals and are much safer from a health and environmental point of view The development of

natural products such as herbicides fungicides and their role in biological control of plant diseases indicates a reduction in environmental and health hazards Allelopathic techniques offer a real future in solving several problems for instance biological control of plant pests This book is organized around the indication that allelochemicals can be employed for biological control of plant pathogens and plant diseases Specifically this volume focuses on i discovery and development of natural product based fungicides for agriculture ii direct use of allelochemicals as well as indirect effects through cover crops and organic amendments for plant parasitic pest control and iii application of allelopathy in pest management

Biocontrol of Plant Diseases Pravin Chandra Trivedi, 2007-01-01 Indiscriminate Use Of Pesticides For The Control Of Plant Diseases And Pests Is No Longer Permissible Due To Risk Of Environmental And Health Hazards To Human Beings Animal And Other Beneficial Organisms Biological Control Has Attracted Attention As An Important Component Of Integrated Pest Management System In Recent Times In spite Of Its Independent Use The Last Two Decade Has Witnessed A Tremendous Break Through In The Research Efforts On Biological Control Of Plant Diseases In India The Present Book Biocontrol Of Plant Diseases Incorporates Critical Review And Research Articles On Management Of Plant Diseases Using Biocontrol Agents This Volume Contains 20 Chapters Covering Holistic Information On Biocontrol Management Of Fungal Bacterial Nematode And Insect Pests Of Economically Important Plants Important Articles Are On Biocontrol An Ecofriendly Disease Management Approach Commercial Use Of Fungi As Biocontrol Agents Biological Control Of Foliar Pathogens Of Crop Plants Ecofriendly Management Of Diseases In Mulberry Bio Bullets To Control Post Harvest Diseases Of Perishables Use Of Biocontrol Agents In Integrated Management Of Leaf Rot In Root Affected Coconut Biological Control Of Pythium Diseases In Crops And Biocontrol Of Sugarcane Insect Pests Use Of Trichoderma And Aspergillus As Biocontrol Agents Of Plant Diseases Provide Detailed Information On The Subject Use Of Vam Fungi In The Management Of Fungal Disease Ecofriendly Management Of Wilt Of Guava By Vam Technology And Am Fungi For Phytonematode Management Provide Sufficient Information On The Application Of Am Fungi As Biocontrol Tool Articles Related To Biopesticides Viz Antimicrobial Agents From Plants Evaluation Of Extracts Of Piper nigrum As Fungicidal Antifungal Antibiotics From Potential Biocontrol Microorganism And Mechanism Of Antagonism Hyperparasitism And Antibiosis Have Added Value To The Book Detailed Information Is Given On Fungi In The Management Of Plant Parasitic Nematodes One Chapter Provides Information On Biocontrol Of Water Hyacinth With Fungi Which Some May Feel Out Of Place But Important To Have It I Am Sure That This Book Will Be Useful To All Students And Researchers In Plant Pathology Microbial Ecology Mycology Botany And Agriculture

Advanced Research on Biological Control of Plant Disease Or Microbial Interactions Beibei Ge, Tomislav Cernava, Kyungseok Park, 2024-07-17 Plant diseases are caused by a large number of plant pathogens with fungi bacteria and viruses being the main causes of the loss of crop yield and quality worldwide Although several control strategies have been developed to reduce the negative effects of plant diseases biological control remains an environmentally friendly and cost

effective green technique in environmental protection and agricultural production it generally uses selected bioresources including beneficial microorganisms This Special Issue will comprehensively explore the general principles and advances in the Biological Control of Plant Disease or Microbial interactions in relation to the modes of action and applications of biocontrol agents in the control of plant diseases interactions between plant pathogens and biocontrol agents and biological control agents and their mechanisms

Biocontrol Potential and its Exploitation in Sustainable Agriculture R. K. Upadhyay, K.G. Mukerji, B. P. Chamola, 2000 Biological control of crop diseases exploiting genes involved in systemic induced resistance Biocontrol of plant diseases for agricultural sustainability Bacterial biocontrol agents and their role in plant disease management Exploitation of protoplast fusion technology in improving biocontrol potential Microbial iron chelators a sustainable tool for the biocontrol of plant diseases Antiviral phytoproteins as biocontrol agent for efficient management of plant virus diseases Mycoviruses a novel option for managing some plant diseases Exploration of microorganisms and viruses as biocontrol agents for crop diseases management Sustainable management of arbuscular mycorrhizal fungi in the biocontrol of soil borne diseases Fungal antagonists of phytonematodes Bacterial antibiotics of phytonematodes Horse purslane trianthema portulacastrum and its biocontrol with fungal pathogens Biological control of weeds in India Biological control of rot diseases of small cardamom Biocontrol of pulse diseases Biological control of pearl millet downy mildew present status and future prospects Biological control of major fungal diseases of rice and other food grains with bacterial antagonists Innovative approaches in rice sheath blight management

Biological Control of Crop Diseases Samuel S. Gnanamanickam, 2002-04-03 With contributions from more than 30 internationally renowned experts this book combines coverage of theory with coverage of global practices Highlighting the day to day challenges of organic crop management for cost effective real world application the book explores the biological control of diseases in 12 major crops It focuses on the use of host plant resistance through transgenics and induced systemic resistance as a part of biological control Topics covered include the role of biocontrol agents for signalling resistance effective ecofriendly alternative to combat bacterial fungal and viral infestation and transgenic crops in disease management

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

Biotechnology of Fungi for Improving Plant Growth

British Mycological Society. Symposium, J. M. Whipps, 1989 Based on a 1988 British Mycological Society symposium this book reviews how fungi can improve plant growth

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

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