

PATHOGEN

DIRECT EFFECTS

Antibiosis

Hydrolytic enzymes

Siderophores,
HCN

Competition for
nutrients, niches

INDIRECT EFFECTS

Induced systemic
resistance ISR

Plant defense
system

Plant hormone
modulation

Plant immune
system

BIOCONTROL AGENT



Biological Control Of Microbial Plant Pathogens



I. Pertot

Biological Control Of Microbial Plant Pathogens:

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

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

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

Biological Management of Diseases of Crops P. Narayanasamy, 2013-06-28 Biological disease management tactics have emerged as 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

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 **Handbook of Biological Control** T. W. Fisher, Thomas S. Bellows, L. E. Caltagirone, D. L. Dahlsten, Carl B. Huffaker, G. Gordh, 1999-09-20 For many years the use of chemical agents such as pesticides and herbicides has been effective in controlling the many varieties of pests that infest both agricultural crops and backyard gardens However these pests are gradually becoming resistant to these agents because the agents themselves are acting as selective factors making the pests better and better able to resist and persist As a result the use of biological controlling agents is increasing This book is a comprehensive and authoritative handbook of biological control

Biocontrol of Cereal Pathogens Shivaditya Gautam, 2010-07-14 Septoria leaf blotch has been the major disease of wheat in Britain and much of the rest of Europe It has been reported that the disease causes serious yield losses to range from 31 to 53% *Mycosphaerella graminicola* anamorph *Septoria tritici* is the pathogen which causes Septoria leaf blotch The disease can be controlled by various methods such as cultural practices chemical control using resistant varieties and biological control In plant pathology the term biological control leads to the introduction of microbial antagonists or host specific pathogens to suppress diseases and populations of one or more plant pathogens This study investigated the microbial community on and within wheat leaves which can suppress Septoria leaf blotch by reducing the inoculum level of the causative pathogen *M. graminicola* Plate count and DGGE analysis techniques were used to assess the microbial community The changes in the microbial populations of healthy senescent and *M. graminicola* infected i.e. diseased wheat leaves were investigated in vitro on agar plates using plate colony count method It was found that method was successful in assessing both bacterial and fungal population sizes showing distinct colonies DGGE is a rapid method which can analyze large number of samples simultaneously The bands appearing in DGGE profile represent different species present in the microbial population The DGGE technique was successfully used in this study to assess bacterial community Bioinformatics tools have also played a vital role in this study for identifying bacterial and fungal species A total of five bacterial species and five fungal species were identified by bioinformatics tools The antagonistic abilities of identified bacterial and fungal species were tested against a *Septoria* isolate in vitro on dual culture PDA plates Four microorganisms *Fusarium* sp *Verticillium* sp *Penicillium* sp *Sporobolomyces* sp and *Microbotryum* sp in the dual cultures vary in their colony length width ratio of length and width and distance between them But after statistical analysis all the values are insignificant observations of dual culture plates indicated that the microorganisms might inhibit *Septoria* by competing for space These microorganisms after testing might be good candidates for further in vivo testing of *Septoria* inhibition A thorough knowledge of wheat leaf microbial communities is required for further use of biocontrol in the future IOBC-WPRS Working Group "Biological Control of

Fungal and Bacterial Plant Pathogens" I. Pertot,2013

Biological Management of Diseases of Crops P.

Narayanasamy,2013-06-05 Biological management of diseases of crops is influenced by the nature of interactions between the pathogens and other organisms and the plants Due to development of resistance in pathogens to fungicides and bactericides determination of compatibility of biotic biocontrol agents with chemicals is essential for selecting strains of biocontrol agents BCAs showing resistance to chemicals to effectively restrict use of the chemicals Microbial plant pathogens and the antagonists present in the soil and on the plant surfaces are influenced by various cultural practices It is possible to reduce disease incidence and intensity by crop sanitation and using appropriate rotational crops Application of physical techniques involving the use of heat solarization and irradiation has potential to reduce the pathogen population or weaken the potential of pathogens present in the seed planting materials and soil

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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