

# SOIL MICROBIAL ECOLOGY

Applications in Agricultural  
and Environmental Management

edited by  
**F. Blaine Metting, Jr.**

# Microbial Endophytes Books In Soils Plants And The Environment

**Ajay Kumar, Sougata Ghosh, Joginder  
Singh Panwar, Sirikanjana Thongmee**



## **Microbial Endophytes Books In Soils Plants And The Environment:**

Microbial Endophytes Charles W. Bacon, James White, 2000-02-25 Examining intercellular infections in certain plant species that lead to a symbiotic relationship between the host and its endophytic microbes this volume demonstrates the ability of many types of endosymbionts acting as a unit with hosts to better survive compete and reproduce Practical applications of such endophytes are also discussed for e

Recent Developments in Management of Plant Diseases Ulrich Gisi, I. Chet, Maria Lodovica Gullino, 2009-09-18 Plant disease management remains an important component of plant pathology and is more complex today than ever before including new innovation in diagnostic kits the discovery of new modes of action of chemicals with low environmental impact biological control agents with reliable and persistent activity as well as the development of new plant varieties with durable disease resistance This book is a collection of invited lectures given at the 9th International Congress of Plant Pathology ICCPP 2008 held in Torino August 24 29 2008 and is part of a series of volumes on Plant Pathology in the 21st Century It focuses on new developments of disease management and provides an updated overview of the state of the art given by world experts in the different fields of disease management The different chapters deal with basic aspects of disease management mechanisms of action of biological control agents innovation in fungicide application exploitation of natural compounds and resistance strategies Moreover the management of soil borne diseases and disease management in organic farming are covered

Microbial Endophytes Ajay Kumar, Vipin Kumar Singh, 2019-09-27 Microbial Endophytes Prospects for Sustainable Agriculture discusses the practical and theoretical aspects regarding the use of endophytic microorganisms in agriculture providing insights on the biotechnological applications associated with long term crop production Chapters deal with the various aspects of endophytic microorganisms including isolation enumeration characterization procedures diversity analysis and their role as biofertilizer biocontrol agent and microbial inoculants Framed to discuss the present and future potential of microbial endophytes in biotic and abiotic stress management bioremediation bioactive compounds production and in nanotechnology this book provides a single volume resource that will be valuable to academics and researchers interested in microbiology agricultural sciences and biotechnology Explores aspects of sustainable agriculture by using endophytic microorganism such as bacteria fungi and actinobacteria Presents insights into the use of endophytes as biofertilizer and biocontrol agents in sustainable agriculture Relates endophyte organisms and nano technology

Microbial Applications for Environmental Sustainability Arun Karnwal, Abdel Rahman Mohammad Said Al-Tawaha, 2024-05-13 This book focuses on the various applications of microorganisms for sustainable environment and the reduction of hazardous pollutants released in various forms including xenobiotics e waste pesticides insecticides plastic heavy metals paper waste medical waste textile dyes and their impact on environmental and human health The book involves a series of research reports that explain the application of microbes used to solve real life issues raised due to changes happening in environment including pollution by covering applications

including the use of bacteria fungi microalgae and biofilm in the detection and degradation of crude oil pesticides dyes e waste heavy metals and other pollutants It also focuses on integrative strategies in the application of microbial nanomaterials for remediation of pollutant This material will help environmental scientists and microbiologists to learn about existing environmental problems and suggest novel ways to control or contain their effects by employing various treatment approaches

*Handbook of Research on Microbial Remediation and Microbial Biotechnology for Sustainable Soil* Malik, Junaid Ahmad, 2021-06-11 The introduction of contaminants due to rapid urbanization and anthropogenic activities into the environment causes distress to the physio chemical systems including living organisms which possibly is threatening the dynamics of nature as well as the soil biology by producing certain xenobiotics Hence there is an immediate global demand for the diminution of such contaminants and xenobiotics that can otherwise adversely affect the living organisms Some toxic xenobiotics include synthetic organochlorides such as PAHs and some fractions of crude oil and coal Over time microbial remediation processes have been accelerated to produce better more eco friendly and more biodegradable solutions for complete dissemination of these xenobiotic compounds The advancements in microbiology and biotechnology led to the launch of microbial biotechnology as a separate area of research and contributed dramatically to the development of areas like agriculture environment biopharmaceutics fermented foods and more The Handbook of Research on Microbial Remediation and Microbial Biotechnology for Sustainable Soil provides a detailed comprehensive account for microbial treatment technologies bioremediation strategies biotechnology and the important microbial species involved in remediation The chapters focus on recent developments in microbial biotechnology in the areas of agriculture and environment and the physiology biochemistry and the mechanisms of remediation along with a future outlook This book is ideal for scientists biologists academicians students and researchers in the fields of life sciences microbiology environmental science environmental engineering biotechnology agriculture and health sciences

**Nanoparticles Synthesis by Soil Microbes** Ajay Kumar, Sougata Ghosh, Joginder Singh Panwar, Sirikanjana Thongmee, 2024-10-21 Nanoparticles Synthesis by Soil Microbes Application in Plant Production and the Environment a volume in the Plant and Soil Microbiome series presents an advanced and recent description of plant and soil microbiome in the nanoparticle synthesis and their application in sustainable agriculture and environment In The book covers the broad aspect of microbial synthesized nanoparticles in their synthesis and application in sustainable agriculture and environmental management in line with the recent and timely further interest in the biogenic synthesis of nanoparticles due to their environmentally friendly cost effective rapid and efficient nature The microbial cell contains various bioactive compounds and in the last few years nanoparticle syntheses from the microbial cell have been increasingly sought due to their overall cost effectiveness and less toxic residual products Microbe assisted synthesis of nanoparticles could provide a green environmentally benign rapid and efficient route for the fabrication of biocompatible nanostructures with diverse physical chemical and optoelectronic properties Covers the plant and soil

microbiome and their aspect in the synthesis and application of nanoparticles Addresses biologically produced nanoparticles and their different properties Includes considerations of regulatory social and environmental sustainability impacts

**Unravelling the Soil Microbiome** Rama Kant Dubey,Vishal Tripathi,Ratna Prabha,Rajan Chaurasia,Dhananjaya Pratap Singh,Ch. Srinivasa Rao,Ali El-Keblawy,Purushothaman Chirakkuzhyil Abhilash,2019-05-24 This book explores the significance of soil microbial diversity to understand its utility in soil functions ecosystem services environmental sustainability and achieving the sustainable development goals With a focus on agriculture and environment the book highlights the importance of the microbial world by providing state of the art technologies for examining the structural and functional attributes of soil microbial diversity for applications in healthcare industrial biotechnology and bioremediation studies In seven chapters the book will act as a primer for students environmental biotechnologists microbial ecologists plant scientists and agricultural microbiologists Chapter 1 introduces readers to the soil microbiome and chapter 2 discusses the below ground microbial world Chapter 3 addresses various methods for exploring microbial diversity chapter 4 discusses the genomics methods chapter 5 provides the metaproteomics and metatranscriptomics approaches and chapter 6 details the bioinformatics tools for soil microbial community analysis and chapter 7 concludes the text with future perspectives on further soil microbial uses and applications

**Advances in Plant Microbiome Research for Climate-Resilient Agriculture** Ashwani Kumar,2024-08-07 This new book Advances in Plant Microbiome Research for Climate Resilient Agriculture Toward Sustainable Farming covers important aspects of plant microbiome research through contributions from scientists with the latest information available in this area of research The book provides an introduction to the concept of plant microbiome and its importance for climate resistant crop plants and discusses the tools and techniques to analyze plant microbiome for sustainable agriculture productivity It covers microbial endophytes as warriors for plant defense against abiotic and biotic stress The book also highlights the importance of phyto microbiomes and presents an overview of the role of metabolomics in bioremediation for sustainable crop production introducing various metabolomics tools such as GC MS LC MS and NMR for the sustainable remediation of toxic pollutants from the environment Web sources and software for metabolomics data interpretation are included as well The book discusses abiotic and biotic stresses and their effects on crops the concept and strategies of the rhizosphere microbiome manipulation in crop improvement the microbial traits in plant stress tolerance and their importance for agriculture exogenous applications of several compounds and phyto microbiomes that mitigate the negative effects of salt stress on maize and the beneficial plant microbial association for sustainable agriculture With its coverage of the recent research on the current methods and technological advancements for increasing plant resilience to adverse climate scenarios this volume will be a rich resource for botanists plant specialists and researchers concerned with crop science plant physiology and plant protection

**Reviews of Environmental Contamination and Toxicology Volume 252** Pim de Voogt,2019-10-14 Reviews of Environmental Contamination and

Toxicology attempts to provide concise critical reviews of timely advances philosophy and significant areas of accomplished or needed endeavor in the total field of xenobiotics in any segment of the environment as well as toxicological implications

**Subject Guide to Books in Print** ,1991      **Legumes Research** Jose C. Jimenez-Lopez,Alfonso Clemente,2022-10-12  
This book is a collection of updated studies related to current improvements in legume traits and their agricultural benefits It discusses the physiological functions genetics and genomics of legume crops Chapters address such topics as genetics and biological insights of seed traits in the context of climate change improving quality and yields of legume seeds new genetic resources from diverse germplasms and agricultural benefits of legumes in agroecosystems      **Soil Constraints and Productivity** Nanthi Bolan,M. B. Kirkham,2023-05-29 Identifying interpreting and managing soil constraints are major challenges especially when multiple constraints occur in the same soil at various depth zones Although amelioration tools and strategies are available to manage some of these constraints field adoption of these technologies is a major challenge to the farming community Soil Constraints and Productivity helps in identifying and understanding soil constraints focusing on management practices to alleviate problems associated with these restrictions and their impacts on crop productivity Soil Constraints and Productivity aims to Describe various strategies suitable for mitigating soil constraints Provide data on cost benefit analysis of managing soil constraints Provide case studies of managing soil constraints to increase productivity Soil is essential for the doubling of major grain production proposed to be necessary to avoid major food security collapses in the future This book will be a key resource for soil and environmental scientists farmers students majoring in agricultural and environmental sciences and crop consultants      Perspectives and Insights on Soil Contamination and Effective Remediation Techniques ,2024-10-30 Weathering of rocks and subsequent enrichment of organic matter contribute to soil formation but soil contaminants can arise from diverse sources such as industrial activities agricultural practices and improper waste disposal These pollutants may include radioactive materials petroleum products heavy metals and pesticides To restore soil quality the harmful effects of these contaminants must be reduced through effective remediation approaches Selecting an appropriate remediation method requires careful consideration of the type of contamination the characteristics of the soil and the regulatory requirements for a given site Managing soil pollution demands a multifaceted strategy that incorporates several remediation tactics customized to specific contamination scenarios Successful soil remediation programs rely on collaboration between environmental authorities academic institutions and industry stakeholders By prioritizing soil health and sustainability we can protect the environment for future generations and preserve our natural resources This book provides a comprehensive overview of ecosystem approaches and phytotechnologies to solve various environmental problems It includes six chapters that describe and discuss soil contamination sources and remediation strategies      *Biodegradation Technology of Organic and Inorganic Pollutants* Kassio Ferreira Mendes,Rodrigo De Sousa,Kamila Cabral Mielke,2022-04-20 Bioremediation technologies for environments contaminated by organic and inorganic pollutants are a major focus of

researchers and scientists worldwide The chemical control of agricultural pests and advocacy for sustainable agriculture have led to the development of new paradigms in environmental remediation This book covers recent advances in the bioremediation technology of organic and inorganic pollutants in the environment **Rhizosphere Biology: Interactions**

**Between Microbes and Plants** Vadakattu V. S. R. Gupta, Anil K. Sharma, 2020-08-21 This book presents a detailed discussion on the direct interactions of plants and microorganisms in the rhizosphere environment It includes fifteen chapters each focusing on a specific component of plant microbe interactions such as the influence of plants on the root microbiome and the downstream effects of rhizosphere microbial dynamics on carbon and nutrient fluxes in the surroundings As such the book helps readers gain a better understanding of diversity above the ground and its effect on the microbiome and its functionality Microbial Root Endophytes Barbara J.E. Schulz, Christine J.C. Boyle, Thomas N. Sieber, 2007-05-24

Plant roots may not only be colonized by mycorrhizal fungi but also by a myriad of bacterial and fungal root endophytes that are usually not considered by the investigators of classic symbioses This is the first book dedicated to the interactions of non mycorrhizal microbial endophytes with plant roots The phenotypes of these interactions can be extremely plastic depending on environmental factors nutritional status genetic disposition and developmental stages of the two partners The book deals with diversity life history strategies interactions applications in agriculture and forestry methods for isolation cultivation and both conventional and molecular methods for identification and detection of these endophytes The comprehensive reviews demonstrate the high diversity of interactions and will provoke further studies to better understand the mechanisms which determine whether a plant microbial interaction remains asymptomatic leads to disease or to a mutualistic interaction

Phosphorus in Soils and Plants Naser A. Anjum, Asim Masood, Shahid Umar, Nafees A. Khan, 2024-01-31 Phosphorus P stands second to nitrogen in terms of its essentiality as a plant macronutrient as well as due to its involvement in almost all plant developmental stages primary and secondary plant metabolisms maintenance of membrane structures and in the structural skeleton of major biomolecules An optimum P supply also helps plants combat abiotic stress impacts Most P in soil remains unavailable for uptake by plants P containing fertilizers are being added to agricultural lands to sustain high yields Only the least amount of the applied P 20% 30% is used by most cultivated plants and the rest remains as legacy P P surpluses which eventually causes eutrophication This book Phosphorus in Soils and Plants reviews P in soils and plants P dynamics in the soil water sediment environment the major roles of P in the photosynthetic dark phase biochemical pathways major approaches for the sustainable management of P in agriculture main mechanisms underlying the role of P in the regulation of plant microbe interactions in the rhizosphere literature on the role of microbial phosphate solubilization in management of soil and plant nutrients and insights into P recovery through waste transformation This volume is an important resource for plant biologists involved in teaching or research who wish to advance their knowledge of P in soils and plants Endophytes: Mineral Nutrient Management, Volume 3 Dinesh Kumar Maheshwari, Shrivardhan

Dheeman,2021-03-04 The challenges to meet the food requirement of the burgeoning population and stabilized productivity of agriculture lands can only be met by a second green revolution After steadily declining for over a decade hunger is on the rise again affecting million people of the global population Therefore crop yields must be increased substantially over the coming decades to keep pace with global food demand The plant rhizosphere is a multidimensional and dynamic ecological environment of complicated microbe plant interactions for harnessing essential macro and micronutrients from a limited nutrient pool This book will showcase naturally occurring endophyte which can be explored for nutrient mineralization and mobilization for sustainable agriculture This will cover recent trends prospects critical commentaries and advancement in the research area focusing on naturally occurring beneficial endophytic microbes Thus it is proposed to bring out new scientific insights and frontiers of research that have exploration of endophyte for mineral nutrient management in soil and crops The chapters are contributed by leading scientists across the globe The book will be useful to agronomists microbiologists ecologists plant pathologists molecular biologists environmentalists policy makers conservationists and NGOs working for the crop production and productivity development and consequently over all agricultural significance *Plant Biotic*

*Interactions* Ajit Varma,Swati Tripathi,Ram Prasad,2019-11-28 This book highlights recent advances in the field of plant biotic interactions and explores current serious issues in the crop production industry It is intended to attract more attention to these important but often overlooked areas and to stimulate new ideas for future research Plants are constantly under attack by pathogens pests and parasites which can significantly impact worldwide food production and human health While pathogens and pests attack and interconnect with their hosts in a variety of ways plants have developed sophisticated immune systems to fight infections In the field of plant biotic interactions most of the studies to date have focused on the function and signaling pathways of plant disease resistance proteins and pattern recognition receptors as well as pathogen effector proteins In contrast this book presents new and emerging research areas and introduces students researchers academics and policy advisors to the latest trends in e g microbial technology environmental microbiology agricultural science the health sciences biological sciences and other related disciplines **Rhizosphere Microbes** Sushil Kumar

Sharma,Udai B. Singh,Pramod Kumar Sahu,Harsh Vardhan Singh,Pawan Kumar Sharma,2021-01-20 Plants create a dynamic micro biosphere in the soil around the roots called as rhizosphere which harbors diverse number of microorganisms for sustaining their growth and development A soil with diverse and multi traits microbial communities is considered healthy to enhance crop productivity In the last decades rhizosphere biology has gained attention due to unraveling of new mechanisms processes and molecules in the rhizosphere that contributes towards the promotion of plant productivity The rhizospheric microbes and associated processes are being utilized for harnessing potential of soils in effective and sustainable functioning in the agro ecosystems Broadly the book discusses rhizospheric microbes and their role in modulating functions of soil and crop plant Specifically it highlights conventional and modern aspects of rhizosphere microbes such as microbiome in the



rhizosphere microbes as an indicator and promoter of soil health rhizosphere microbes as biofertilizer biostimulator and biofortifyer microbial signaling in the rhizosphere recent tools in deciphering rhizobiome and regulatory mechanisms for commercialization of biofertilizer biopesticide and biostimulator The book is useful for agriculture scientist biotechnologist plant pathologist mycologist and microbiologist farming community scientist of R D organization as well as teaching community researcher and student and policy maker

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