

S O L B I O L O G Y

B. Schulz
C. Boyle
T. Sieber (Eds.)

Microbial Root Endophytes



Springer

Microbial Root Endophytes Soil Biology

Fred O Asiegbu, Andriy Kovalchuk

Microbial Root Endophytes Soil Biology:

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

Microbial Root Endophytes Barbara J.E. Schulz,Christine J.C. Boyle,Thomas N. Sieber,2006-08-04 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 This book explores 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

Multi-omics Approach to Investigate Endophyte Diversity Mukesh Meena,Andleeb Zehra,Prashant Swapnil,2025-05-16 This book deals with the multi omics approaches to investigate the diversity of endophytes and their interaction with plants in diversified ecological systems This book helps to integrate the omics approaches to understand the detailed structure of plant microbial interactions and the mechanism of plant microbe responses under various environmental conditions It discusses different omics technologies including metabolomics genomics metagenomics and volatileomics in plant disease It also incorporates parts of the ecology and genetics of fungal endophytes particularly how they identify with the host genome and the synthesis of significant and beneficial products The proteomic trends of fungal endophytes is scrutinized offering valuable insights for biotechnological applications The book further explores the impact of fungal endophytes on nutrient cycling within the rhizosphere microbiome providing a holistic view of their influence on nutrient dynamics and related microbial communities This book serves as a reference resource for researchers and practitioners working towards advancements in agriculture environmental science and biotechnology

Symbiotic Endophytes Ricardo Aroca,2013-09-07 This Soil Biology volume examines our current understanding of the mechanisms involved in the beneficial effects transferred to plants by endophytes such as rhizobial actinorhizal arbuscular mycorrhizal symbionts and yeasts Topics presented include how symbiosis starts on the molecular level chemical signaling in mycorrhizal symbiosis genomic and functional diversity of endophytes nitrogen fixation nutrient uptake and cycling as well as plant protection against various

stress conditions Further the use of beneficial microorganisms as biopesticides is discussed particularly the application of Plant Growth Promoter Rhizobacteria PGPR in agriculture with the aim to increase yields [Bio-Inspired Land Remediation](#) Vimal Chandra Pandey,2023-01-01 Land is fundamental to the human life The upper layer of land is a non renewable resource and source of food Therefore land health is essential to long term food security and to promote sustainable livelihoods On account of urbanization industrialization and population growth land pollution is one of the major issues worldwide As a result land pollution is continuing across the world and has been linked with a wide range of potentially toxic contaminants at rates that deteriorate land quality Land pollution can result either anthropogenic activities or natural activities The major contaminants of land pollution are metalloids petroleum hydrocarbon radioactive elements polyaromatic hydrocarbons PAHs Pesticide other organic pollutants etc that comes from different types of sources In urban and peri urban areas irrigation of agricultural land with polluted water is also a reason of land pollution Therefore land security is an important issue for future sustainability Its remediation and management are important issue worldwide to protect land quality and functions Land pollution means degradation of earth s surface Polluted land comes under the category of degraded land Hence the remediation of polluted land is essential for regaining biodiversity and ecosystems services and thereby achieving United Nations Sustainable Development Goals UN SDGs This fact showed the need to develop research into land remediation Bio inspired land remediation has undergone a huge development Therefore Biomanagement has a lot of potential to secure upper earth s surface through the land remediation programs targeted during the United Nations Decade on Ecosystem Restoration 2021 2030 This book explores the remediation of land pollution that includes

Phytoremediation Bioremediation bacterial remediation and fungal remediation Vermiremediation Biochar based remediation and other Bio inspired remediation This book will be a remarkable asset for research scholars environmentalists ecological scientist agriculturist practitioners policy makers entrepreneurs and other stakeholders alike [Current Omics](#)

Advancement in Plant Abiotic Stress Biology Deepesh Bhatt,Manoj Nath,Saurabh Badoni,Rohit Joshi,2024-05-07 Applied Biotechnology Strategies to Combat Plant Abiotic Stress investigates the causal molecular factors underlying the respective mechanisms orchestrated by plants to help alleviate abiotic stress in which Although knowledge of abiotic stresses in crop plants and high throughput tools and biotechnologies is available in this book a systematic effort has been made for integrating omics interventions across major sorts of abiotic stresses with special emphasis to major food crops infused with detailed mechanistic understanding which would furthermore help contribute in dissecting the interdisciplinary areas of omics driven plant abiotic stress biology in a much better manner In 32 chapters Applied Biotechnology Strategies to Combat Plant Abiotic Stress focuses on the integration of multi OMICS biotechnologies in deciphering molecular intricacies of plant abiotic stress namely drought salt cold heat heavy metals in major C3 and C4 food crops Together with this the book provides updated knowledge of common and unique set of molecular intricacies playing a vital role in coping up severe abiotic

stresses in plants deploying multi OMICS approaches This book is a valuable resource for early researchers senior academicians and scientists in the field of biotechnology biochemistry molecular biology researchers in agriculture and crops for human foods and all those who wish to broaden their knowledge in the allied field Describes biotechnological strategies to combat plant abiotic stress Covers the latest evidence based multipronged approaches in understanding omics perspective of stress tolerance Focuses on the integration of multi OMICS technologies in deciphering molecular intricacies of plant abiotic stress Indonesian Journal of Agricultural Science ,2011 **Forest Microbiology** Fred O Asiegbu,Andriy Kovalchuk,2021-07-09

Forest Microbiology Volume One Tree Microbiome Phyllosphere Endosphere and Rhizosphere places an emphasis on the microbiology of leaves needles stems roots litter and soil This comprehensive title is split into five sections including the phyllosphere microbiome endosphere rhizosphere archaea viruses in forest ecosystem and microbiota of forest nurseries and tree pests challenges and potentials Microbial communities associated with various host trees and different tree tissues are compared and generalists and specialists among tree associated microbes are identified In addition biotic and abiotic factors determining the composition and the structure of forest tree microbial communities are presented along with the concept of microbial hubs Together the book s editors have 25 years worth of experience teaching and conducting research on forest microbiology making this an essential read for any scientist interested in the forest microbiome Addresses the microbiology of living organs of forest trees including needles leaves stems and roots Highlights the potential impact of microbiota inhabiting forest trees on the health and fitness of and disease progression in forest biomes Focuses on the phyllosphere endosphere and rhizosphere forest microbiome Symbiotic Soil Microorganisms

Neeraj Shrivastava,Shubhangi Mahajan,Ajit Varma,2020-10-30 This book explores microbial symbiosis with a particular focus on soil microorganisms highlighting their application in enhancing plant growth and yield It addresses various types of bacterial and fungal microbes associated with symbiotic phenomena including rhizobium symbiosis arbuscular mycorrhizal symbiosis ectomycorrhizal symbiosis algal lichen symbiosis and Archeal symbiosis Presenting strategies for employing a diverse range of bacterial and fungal symbioses in nutrient fortification adaptation of plants in contaminated soils and mitigating pathogenesis it investigates ways of integrating diverse approaches to increase crop production under the current conventional agroecosystem Providing insights into microbial symbioses and the challenges of adopting a plant microbe synergistic approach towards plant health this book is a valuable resource for researchers graduate students and anyone in industry working on bio fertilizers and their agricultural applications **Can J Microbiol** ,2013 **Journal of Biological Control** ,2001 Improving Plant Productivity with Rhizosphere Bacteria M. H. Ryder,P. M. Stephens,Glynn D. Bowen,1994

Biology of Plant-bacterial Endophyte Interactions A. Leonardo Iniguez,2004 Canadian Journal of Soil Science ,2004 **Applied and Environmental Microbiology** ,2001 The Biology of the Actinomycetes M. Goodfellow,Marian Mordarski,Stanley Thomas Williams,1984 Introduction to and importance of actinomycetes Classification Morphology

Genetics of the nocardioform bacteria Streptmycetes genetics Transformation of xenobiotics Actinomycete envelope lipid and peptidoglycan composition Chicical significance of actinomycetes Laboratory diagnosis of actinomycetes diseases

Actinomycetes pathogenesis Ecology of actinomycetes Report Rothamsted Experimental Station,1985 Reports for 1908

1929 include Supplement to the Guide to the experimental plots **Report - Rothamsted Experimental Station**

Rothamsted Experimental Station,1985 *Soil Biota Management in Sustainable Farming Systems* C. E. Pankhurst,1994

The aim of the workshop on Management of the Soil Biota in Sustainable Farming Systems was to provide insight into the need for and approaches to the development of land use practices that capture and exploit the beneficial activities of the soil biota and soil biotic processes It contains a collection of 27 review papers that cover a range of issues and topics concerned with the management of the soil biota **Australian Farm Journal** ,2003

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