

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

Microbial Root Endophytes



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Microbial Root Endophytes Soil Biology

**Neeraj Shrivastava, Shubhangi
Mahajan, Ajit Varma**



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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

Symbiotic Fungi Ajit Varma, Amit C. Kharkwal, 2009-09-01 *Symbiotic Fungi Principles and Practice* presents current protocols for the study of symbiotic fungi and their interactions with plant roots such as techniques for analyzing nutrient transfer ecological restoration microbial communication and mycorrhizal bioassays AM inoculum procedures and mushroom technology The protocols offer practical solutions for researchers and students involved in the study of symbiotic microorganisms The volume will be of great use for basic research biotechnological applications and the development of commercial products

Plant Health Under Biotic Stress Rizwan Ali Ansari, Irshad Mahmood, 2019-05-08 The book illustrates the use of putative microbial agents which provide good protection to the plant from biotic pathogens attack An up to date knowledge on plant microbiome interaction strategies in terms of improved sustainability has been discussed Information from experts across the globe on the application of microbes for providing amicable solution in sustainable agriculture has been gathered In addition information related to microbes mediated resistance levels leading to enhanced plant health has been well presented The chapters have emphasised the use of Plant Growth Promoting Rhizobacteria PGPR and other potential biocontrol agents antagonists in the management of plant diseases which provide extensive information to the readers Literature on microbial root colonization plant growth promotions and also on the protection of plants from attack of various soil borne pathogens have been presented in a coherent way Information on the application of potential strain of the bio control fungi endophytes actinomycetes strengthening the plants ability which rescue the plant from

pathogens attack leading to improved plant health has also been underpinned

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

Biological Control of Plant-Parasitic Nematodes: Keith Davies, Yitzhak Spiegel, 2011-06-27 The offered volume intends to review the biological control theme of phytonematodes from several prospects ecological applicative as well as commercial state of the art understanding the mode of action of various biocontrol systems interaction between the plant host nematodes surface and microorganism s candidates for biocontrol extrapolation of the wide knowledge existed in another systems for understanding biocontrol processes C elegans as a model and lessons from other natural systems and exploiting advanced genomic tools to promote understanding biocontrol processes and thereafter improve specific biological control agents

Bacteria in Agrobiological Disease Management Dinesh K. Maheshwari, 2013-01-11 The future of agriculture greatly depends on our ability to enhance productivity without sacrificing long term production potential The application of microorganisms such as the diverse bacterial species of plant growth promoting bacteria PGPR represents an ecologically and economically sustainable strategy The use of these bio resources for the enhancement of crop productivity is gaining importance worldwide Bacteria in Agrobiological Disease Management discusses various aspects of biological control and disease suppression using bacteria Topics covered include fluorescent pseudomonads siderophore producing PGPR pseudomonas inoculants bacillus based biocontrol agents bacterial control of root and tuber crop diseases fungal pathogens of cereals soil borne fungal pathogens peronosporomycete phytopathogens and plant parasitic nematodes

New and Future Developments in Microbial Biotechnology and Bioengineering Ali Asghar Rastegari, Ajar Nath Yadav, Neelam Yadav, 2020-05-16 New and Future Developments in Microbial Biotechnology and Bioengineering Trends of Microbial Biotechnology for Sustainable Agriculture and Biomedicine Systems Diversity and Functional Perspectives describes how specific techniques can be used to generalize the metabolism of bacteria that optimize biologic improvement strategies and bio transport processes Microbial biotechnology focuses on microbes of agricultural environmental industrial and clinical significance This volume discusses several methods based on molecular genetics systems and biology of synthetic genomic proteomic and metagenomics Recent

developments in our understanding of the role of microbes in sustainable agriculture and biotechnology have created a highly potential research area. The soil and plant microbiomes have a significant role in plant growth promotion, crop yield, soil health and fertility for sustainable developments. The microbes provide nutrients and stimulate plant growth through different mechanisms including solubilization of phosphorus, potassium and zinc, biological nitrogen fixation, production of siderophore, ammonia, HCN and other secondary metabolites which are antagonistic against pathogenic microbes. This new book provides an indispensable reference source for engineers, bioengineers, biochemists, biotechnologists, microbiologists, agrochemists and researchers who want to know about the unique properties of this microbe and explore its sustainable agriculture future applications. Introduces the principles of microbial biotechnology and its application in plant growth and soil health for sustainable agriculture. Explores various plant microbiomes and their beneficial impact on plant growth for crop improvement. Explains the mechanisms of plant-microbe interaction and plant growth promotion. Includes current applications of microbial consortium for enhanced production of crop in eco-friendly manners.

Endophytic Microbes: Isolation, Identification, and Bioactive Potentials A. Sankaranarayanan, Natarajan Amaran, Mitesh Kumar Dwivedi, 2022-11-25

This volume provides basic insight and protocols relating to endophytic microbes. Chapters are divided into five major sections detailing basic isolation, bioactive metabolites production, endophytism, isolation and identification of endophytes, bioactive potentials and screening of metabolites. Authoritative and cutting edge. **Endophytic Microbes: Isolation, Identification and Bioactive Potentials** aims to provide comprehensive and accessible methods to undergraduate, graduate and established scientists.

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.

Fungal Biotechnology and Bioengineering Abd El-Latif Hesham, Ram Sanmukh Upadhyay, Gauri Dutt Sharma, Chakravarthula Manoharachary, Vijai Kumar Gupta, 2020-06-18

Fungi are eukaryotic microorganisms that include both unicellular and multicellular species. They have a worldwide distribution and a wide range of applications in diverse sectors from environmental, food and medicine to biotechnological innovations. Fungal biochemical genetics involves the study of the relationships between genome, proteome and metabolome and the underlying molecular processes in both native and bioengineered fungi. This book provides a valuable resource on the challenges and potential of fungal biotechnology and related bioengineering and functional diversity for various industrial applications in the food, environmental, bioenergy and biorefining and the biopharma sectors. In comparison to previous and related publications in the area of applied myco biotech engineering, this book bridges a

knowledge gap in the areas related to prospects and investment as well as intellectual and technical issues This book also provides information on recent commercial and economic interests in the area by juxtaposing the developments achieved in recent worldwide research and its many challenges

Freshwater Fungi E. B. Gareth Jones, Kevin D Hyde, Ka-Lai Pang, 2014-08-27 The available literature on freshwater fungi is limited Over the subsequent years a considerable volume of scientific papers have appeared scattered throughout numerous journals There is therefore no recent synthesis of the subject and this is the objective of the proposed book Freshwater habitats are rich in fungi with some 3 000 described species most of papers focussing on their identification substrata they grow on and world distribution However these fungi play an important role in the freshwater ecosystem and are primarily involved in the breakdown of leaf litter contributing food for detritus feeders Our book will bring together a wide range of acclaimed mycologists to review recent developments on the biology and ecology of freshwater fungi particularly their molecular phylogeny biodiversity causative diseases of freshwater amphibians fishes and invertebrate animals decomposition of leaf litter stream pollution and their potential role in bioremediation

Beneficial Microbes for Sustainable Agriculture and Environmental Management Jeyabalan Sangeetha, Devarajan Thangadurai, Saher Islam, 2020-03-27 Microbes are the most abundant organisms in the biosphere and regulate many critical elemental and biogeochemical phenomena Because microbes are the key players in the carbon cycle and in related biological reactions microbial ecology is a vital research area for understanding the contribution of the biosphere in global warming and the response of the natural environment to climate variations The beneficial uses of microbes have enabled constructive and cost effective responses that have not been possible through physical or chemical methods This new volume reviews the multifaceted interactions among microbes ecosystems and their pivotal role in maintaining a more balanced environment in order to help facilitate living organisms coexisting with the natural environment With extensive references tables and illustrations this book provides valuable information on microbial utilization for environmental sustainability and provides fascinating insights into microbial diversity Key features include Looks at enhancing plant production through growth promoting arbuscular mycorrhizae endophytic bacteria and microbiome networks Considers microbial degradation and environmental management of e wastes and azo dyes Explores soil plant microbe interactions in metal contaminated soils Examines radiation resistant thermophiles for engineered bioremediation Describes potential indigenous effective microbes for wastewater treatment processes Presents research on earthworms and microbes for organic farming

Rhizosphere Engineering Ramesh Chandra Dubey, Pankaj Kumar, 2022-02-15 Rhizosphere Engineering is a guide to applying environmentally sound agronomic practices to improve crop yield while also protecting soil resources Focusing on the potential and positive impacts of appropriate practices the book includes the use of beneficial microbes nanotechnology and metagenomics Developing and applying techniques that not only enhance yield but also restore the quality of soil and water using beneficial microbes such as *Bacillus* *Pseudomonas* vesicular arbuscular mycorrhiza VAM

fungi and others are covered along with new information on utilizing nanotechnology quorum sensing and other technologies to further advance the science Designed to fill the gap between research and application this book is written for advanced students researchers and those seeking real world insights for improving agricultural production Explores the potential benefits of optimized rhizosphere Includes metagenomics and their emerging importance Presents insights into the use of biosurfactants

Soil Health and Nutrition Management Naveen Chandra Joshi, Thomas Leustek, Prashant Kumar Singh, 2025-03-28 A major challenge for agriculture and future crop production is the deterioration in soil health and fertility We have large areas of barren land across the globe with degraded soil which can only be made fertile by applying proper nutrition and soil health management practices It is crucial to protect soil health in order to feed the world's ever growing population Healthy soil is a dynamic ecosystem containing microbes that aid in the breakdown of organic materials and minerals increasing the availability of plant nutrients nutrient recycling and enhancing soil quality and crop output Healthy soil also helps mitigate the impact of climate change by maintaining nutrients and sequestering atmospheric carbon This book summarizes the numerous components of soil health management including cutting edge technologies such as genome editing and rhizospheric engineering together with conventional techniques for preserving soil nutrients

Mycorrhizal Mediation of Soil Nancy Collins Johnson, Catherine Gehring, Jan Jansa, 2016-11-03 Mycorrhizal Mediation of Soil Fertility Structure and Carbon Storage offers a better understanding of mycorrhizal mediation that will help inform earth system models and subsequently improve the accuracy of global carbon model predictions Mycorrhizas transport tremendous quantities of plant derived carbon below ground and are increasingly recognized for their importance in the creation structure and function of soils Different global carbon models vary widely in their predictions of the dynamics of the terrestrial carbon pool ranging from a large sink to a large source This edited book presents a unique synthesis of the influence of environmental change on mycorrhizas across a wide range of ecosystems as well as a clear examination of new discoveries and challenges for the future to inform land management practices that preserve or increase below ground carbon storage Synthesizes the abundance of research on the influence of environmental change on mycorrhizas across a wide range of ecosystems from a variety of leading international researchers Focuses on the specific role of mycorrhizal fungi in soil processes with an emphasis on soil development and carbon storage including coverage of cutting edge methods and perspectives Includes a chapter in each section on future avenues for further study

Microbial Technology for Sustainable Environment Pankaj Bhatt, Saurabh Gangola, Dhanushka Udayanga, Govind Kumar, 2021-09-29 Microorganisms are ubiquitous on earth These microorganisms are able to perform various functions in the environment Microbial applications are used as biofertilizers bioremediation biofortification and other sustainable approaches of environmental development Indigenous microbial cultures have the potential to perform various functions that are beneficial to achieve the sustainable goals To date different strains have been commercialized for the industrial and common applications for the

sustainable environment This book will cover different aspects of microbial technology for sustainable development *The Plant Microbiome in Sustainable Agriculture* Alok Kumar Srivastava, Prem Lal Kashyap, Madhumita Srivastava, 2021-02-16 The most up to date reference on phytomicrobiomes available today The Plant Microbiome in Sustainable Agriculture combines the most relevant and timely information available today in the fields of nutrient and food security With a particular emphasis on current research progress and perspectives of future development in the area The Plant Microbiome in Sustainable Agriculture is an invaluable reference for students and researchers in the field as well as those with an interest in microbiome research and development The book covers both terrestrial and crop associated microbiomes unveiling the biological biotechnological and technical aspects of research Topics discussed include Developing model plant microbiome systems for various agriculturally important crops Defining core microbiomes and metagenomes in these model systems Defining synthetic microbiomes for a sustainable increase in food production and quality The Plant Microbiome in Sustainable Agriculture is written to allow a relative neophyte to learn and understand the basic concepts involved in phytomicrobiomes and discuss them intelligently with colleagues **Mycorrhiza** Ajit Varma, 2008-09-09 This book is perfectly timed for the worldwide explosion of interest in mycorrhizal research With a strong emphasis on the latest findings in genetics and molecular biology it contains all current information and speculation on the structure function and biotechnological applications of mycorrhizas 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 volatilomics 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

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