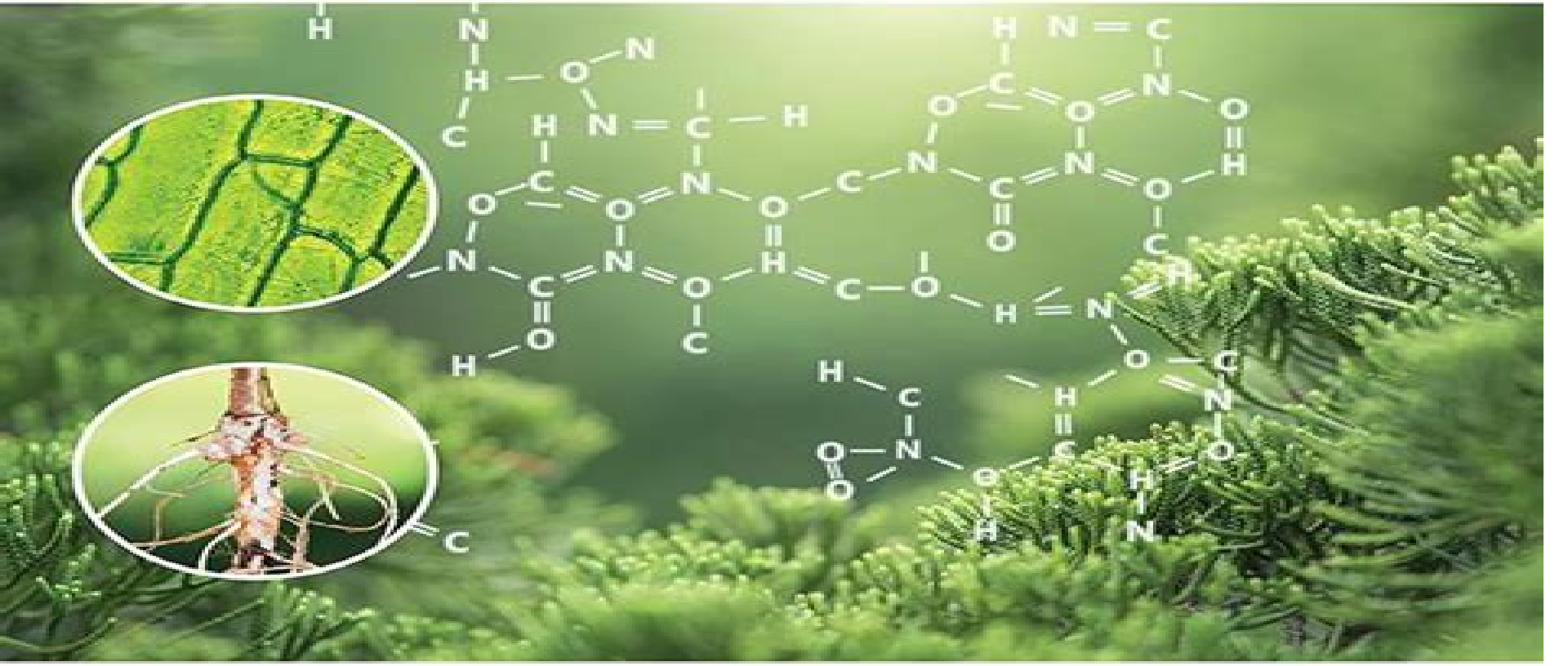
Microbial Endophytes and Plant Growth

Beneficial Interactions and Applications



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Microbial Endophytes S In Soils Plants And The Environment

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Microbial Endophytes S In Soils Plants And The Environment:

Bacterial Endophytes for Sustainable Agriculture and Environmental Management Amit Kishore Singh,Vijay Tripathi,Awadhesh Kumar Shukla,Pradeep Kumar,2022-03-25 This book is a comprehensive account of recent advances in the endophytic research It covers recent perspective of endophytic research molecular diversity bioprospecting of novel genes using high throughput molecular techniques and most importantly application of endophytes in practicing sustainable agriculture Endophytic micro organisms are mysterious living component associated mutually with plant roots and soil microbes Various endophytic bacteria have attracted considerable attention for their ability to promote plant growth through direct mechanisms or by acting as biocontrol agents Endophytes also find use in biocontrol medicine agriculture and food industry This is a useful reading for the student of agriculture environmental microbiology and biotechnology Plants surviving in extreme environment: Harnessing Soil-Plant–Microbial relationship to enhance crop health and productivity Priyanka Chandra,Dilfuza Egamberdieva,Nirmalendu Basak,Arvind Kumar Rai,2024-04-30 Microbial Interventions in Agriculture and Environment Dhananjaya Pratap Singh,Ratna Prabha,2019-11-09 Microbial communities and their multi functionalities play a crucial role in the management of soil and plant health and thus help in managing agro ecology the environment and agriculture Microorganisms are key players in N fixation nutrient acquisition carbon sequestration plant growth promotion pathogen suppression induced systemic resistance and tolerance against stresses and these parameters are used as indicators of improved crop productivity and sustainable soil health Beneficial belowground microbial interactions in the rhizosphere help plants combat abiotic challenges in the unfavourable environmental conditions of native soils These microorganisms and their products offer potential solutions for agriculture in problematic areas since they are able to degrade xenobiotic compounds pesticides and toxic chemicals and help remediate heavy metals in the rhizosphere and so make deteriorated soils suitable for crop production This book compiles the latest research on the role of microbes in the rhizosphere and agro ecology covering interaction mechanisms microbe mediated crop production plant and soil health management food and nutrition nutrient recycling land reclamation clean water systems agro waste management biodegradation bioremediation biomass and bioenergy sanitation and rural livelihood security It is a comprehensive reference resource for agricultural activists policymakers environmentalists and advisors working for governments non governmental organizations and industries helping them update their knowledge of this important but often neglected research area **Microbial Endophytes and Plant Growth** Manoj Kumar Solanki,Mukesh Kumar Yadav,Bhim Pratap Singh,Vijai Kumar Gupta,2022-11-19 Microbial Endophytes and Plant Growth Beneficial Interactions and Applications explains how modern molecular tools can unlock the plant s microbial network building the bridge between plant and environment Chapters describe the usefulness of the endophytic microbiome of different crops including cereals vegetables and horticulture and delve into the latest research surrounding the applications of plant microbe interactions in improving

plant growth Other topics discussed include root endophytes and their role in plant fitness seed associated endophytes and their functions and microbial endophytes and nanotechnology This is a one stop resource for scientists wanting access to the latest research in plant microbiology The book also provides advanced techniques for using multi omics approaches to study plant microbe interactions providing readers with a practical approach Outlines multi omics approaches to study plant endophytes interactions Describes the efficacy of endophytes to combat biotic and abiotic factors Defines the prominent role of endophytic microbes to improve plant growth **Plant Root Interaction with Associated Microbiomes to Improve Plant Resiliency and Crop Biodiversity, Volume II** Nikolay Vassilev,Davide Neri,Eligio Malusà,Xiangming Xu,2023-03-17

Comprehensive Biotechnology ,2011-08-26 The second edition of Comprehensive Biotechnology Six Volume Set continues the tradition of the first inclusive work on this dynamic field with up to date and essential entries on the principles and practice of biotechnology The integration of the latest relevant science and industry practice with fundamental biotechnology concepts is presented with entries from internationally recognized world leaders in their given fields With two volumes covering basic fundamentals and four volumes of applications from environmental biotechnology and safety to medical biotechnology and healthcare this work serves the needs of newcomers as well as established experts combining the latest relevant science and industry practice in a manageable format It is a multi authored work written by experts and vetted by a prestigious advisory board and group of volume editors who are biotechnology innovators and educators with international influence All six volumes are published at the same time not as a series this is not a conventional encyclopedia but a symbiotic integration of brief articles on established topics and longer chapters on new emerging areas Hyperlinks provide sources of extensive additional related information material authored and edited by world renown experts in all aspects of the broad multidisciplinary field of biotechnology Scope and nature of the work are vetted by a prestigious International Advisory Board including three Nobel laureates Each article carries a glossary and a professional summary of the authors indicating their appropriate credentials An extensive index for the entire publication gives a complete list of the many topics treated in the increasingly expanding field Agricultural Systems Management Robert M. Peart,W. David Shoup,2004-01-28 Running a productive agriculture system has always been about having the right tools and the know how to pursue optimization and efficiency In the 21st century the case can be made that the agriculturist s most important tool is not the cultivator but the computer While you still need to know how to adapt to the day to day challenges of land an

Biotechnological Potential of Plant-Microbe Interactions in Environmental Decontamination Ying Ma,Christopher Rensing,2020-01-21 *Phytoremediation of Environmental Pollutants* Ram Chandra,N.K. Dubey,Vineet Kumar,2017-12-14 Phytoremediation aids to augment bioremediation as it uses broad range plants to remediate soil sediment surface water and ground water that have been contaminated with toxic metals organic pesticides and radionuclides This book serves to disseminate detailed up to date knowledge regarding the various aspects of

phytoremediation and plant microbe interaction The book highlights process and molecular mechanisms for industrial waste detoxification during phytoremediation in wetland plants role of endophytic bacteria for phytoremediation of environmental pollutants constructed wetland treatment system for treatment and recycling of hazardous wastewater amongst other relevant topics Key Features Focuses on phytoremediation process for different pollutants mainly heavy metal detoxification in the presence of other co pollutants Includes plant soil microbe interactions in phytoremediations and remediation of contaminated water Explores life cycle assessment of industrial waste contaminated site with organic pollutants Discusses hyperaccumulator versus non hyperaccumulator plants for environmental waste management Includes bacterial assisted phytoremediation and siderophore formation in specific environmental conditions 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 **New and Future Developments in Microbial Biotechnology and Bioengineering** Jay Shankar Singh,2019-07-18 New and Future Developments in Microbial Biotechnology and Bioengineering Microbes in Soil Crop and Environmental Sustainability reviews the exploitation of microbial biodiversity in soil with respect to nutrient use efficiency also discussing the improvement and maintenance of certain physical and chemical conditions in soil that can provide economic and environmental benefits toward agricultural sustainability The utilization of microbes ranges from applications in biotechnology marginal land restoration the formulation of microbial inoculants the enhancement of crop productivity and the mitigation of global warming gases Finally various uses for microbial resources in crop disease management bioenergy production and income based on microbial cultivation are explored Highlights the developments and achievements of microbial resources and their role in the sustainable management of soil fertility and agriculture productivity Outlines the role of microbial resource and biotechnology in sustainability to

industry agriculture forest and management of environment Provides up to date information on the application of microbial resources and the role of biotechnology to meet the ever increasing demand of food soil and plant productivity management Outlines enhancement in productivity through interventions of microbial bio agents and eco friendly technology

Sustainable soil fertility practices for smallholder farmers Cosmas Parwada,Hupenyu Allan Mupambwa,Ronald Mandumbu,Arnold Mashingaidze,2023-06-14 **Field Sampling** Alfred R. Conklin, Jr.,2017-12-19 Written by a renowned professional with more than 30 years of experience in environmental sampling and analysis this reference describes in unparalleled detail all the essential elements for the development and execution of a successful sampling plan at both contaminated and uncontaminated sites The book covers presampling planning and decision making specific sampling situations and correct sample labeling and presents the framework and background for the sampling of any contaminated site Presenting a wide variety of models quality control procedures and valuable troubleshooting methods Field Sampling contains an abundance of topics never before covered in any other source *Advances in Microbe-assisted Phytoremediation of Polluted Sites* Kuldeep Bauddh,Ying Ma,2022-08-03 Advances in Microbe assisted Phytoremediation of Polluted Sites provides a comprehensive overview of the use of phytoremediation to decontaminate polluted land through microbial enhanced phytoremediation including the use of plants with respect to ecological and environmental science The book discusses the potential of microbial assisted phytoremediation of the contaminant including heavy metals pesticides polyaromatic hydrocarbons etc with case studies as examples Key subjects covered include plant microbe interaction in contaminated ecosystems microbe augmented phytoremediation for improved ecosystem services and success stories on microbe assisted phytoremediation of contaminated sites With increasing demand for land space for social industrial and agricultural use the theoretical millions of hectares of contaminated sites around the world are a resource sorely needed that currently cannot be utilized Decontamination of this land using ecologically sound methods is paramount not only to land use but in the prevention of toxic substances deteriorating local ecosystems by reducing productivity and contaminating the food chain which can eventually aggregate in food chains and pose the potential risk of non curable diseases to humans such as cancer Provides novel information on the potential for microbial inoculants to be used in phytoremediation Discusses principles and mechanisms of plant microbe interaction for enhanced phytoremediation with improved soil health Investigates phytoremediation solutions for a multitude of contaminants including heavy metals fly ash petroleum arsenic TPH mining effluents fluoride lead and other major pollutants **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 Agromining: Farming for Metals Antony van der Ent,Alan J.M. Baker,Guillaume Echevarria,Marie-Odile Simonnot,Jean Louis Morel,2020-12-07 This second and expanded edition of the first book on agromining phytomining presents a comprehensive overview of the metal farming recovery of the agromining production chain Agromining is an emerging technology that aims to transform the extraction of sources of target elements not accessible by traditional mining and processing techniques Agromining which is based on sustainable development uses hyperaccumulator plants as metal crops farmed on sub economic soils or minerals wastes to obtain valuable target elements This volume is edited and authored by the pioneers in the rapidly expanding field of agromining and presents the latest insights and developments in the field This book provides in depth information on the global distribution and ecology of hyperaccumulator plants their biogeochemical pathways the influence of rhizosphere microbes the physiology and molecular biology of hyperaccumulation as well as aspects of propagation and conservation of these unusual plants It describes the agronomy of metal crops and opportunities for incorporating agromining into rehabilitation and mine closure including test cases for agromining of nickel cobalt manganese arsenic selenium cadmium zinc thallium rare earth elements and platinum group elements Since the first edition was published there have successful nickel agromining field trials in the tropics in Malaysia and Guatemala and these are presented in a dedicated case study chapter Other new chapters focus on the processing of bio ore for elements other than nickel such as rare earth elements and cadmium and on agromining from industrial wastes such as tailings and industrial by products and sites Furthermore the book features two new chapters that provide a comprehensive assessment of accumulation a very wide range elements from the Periodic Table in various plant species around the globe and a chapter on practical methods for discovery of hyperaccumulator plant species in the field and in the herbarium This book is of interest to environmental professionals in the minerals industry government regulators and academics *Bioremediation for Environmental Sustainability* Gaurav Saxena,Vineet Kumar,Maulin P. Shah,2020-10-13 Bioremediation for Environmental Sustainability Toxicity Mechanisms of Contaminants Degradation Detoxification and Challenges introduces pollution and toxicity profiles of various organic and inorganic contaminants including mechanisms of toxicity degradation and detoxification by microbes and plants and their bioremediation approaches for environmental sustainability The book also covers many advanced technologies in the field of bioremediation and phytoremediation including electro bioremediation microbial fuel cells nano bioremediation constructed wetlands phytotechnologies and many more which are lacking in other competitive titles existing in the market The book includes updated information as well as future directions for research in the field of bioremediation of industrial wastes This book is a reference for students researchers scientists and professionals in the fields of microbiology biotechnology environmental sciences eco toxicology environmental remediation and waste management especially those who aspire to

work on the biodegradation and bioremediation of industrial wastes and environmental pollutants for environmental sustainability Environmental safety and sustainability with rapid industrialization is one of the major challenges worldwide Industries are the key drivers in the world economy but these are also the major polluters due to discharge of potentially toxic and hazardous wastes containing various organic and inorganic pollutants which cause environmental pollution and severe toxic effects in living beings Introduces pollution and toxicity profiles of environmental contaminants and industrial wastes including oil refinery wastewater distillery wastewater tannery wastewater textile wastewater mine tailing wastes plastic wastes and more Describes underlying mechanisms of degradation and detoxification of emerging organic and inorganic contaminants with enzymatic roles Focuses on recent advances and challenges in bioremediation and phytoremediation including microbial enzymes biosurfactants microalgae biofilm archaea genetically engineered organisms and more Describes how microbes and plants can be successfully applied for the remediation of potentially toxic industrial wastes and chemical pollutants to protect the environment and public health **Microbial Strategies for Vegetable Production** Almas Zaidi,Mohammad Saghir Khan,2017-06-13 This book provides a comprehensive information on basic and applied concepts of microbesial strategies adopted for the improvement of vegetables grown in various production systems The beneficial role of soil microbes including plant growth promoting rhizobacteria PGPR nitrogen fixers and phosphate solubilizing bacteria in the improvement of vegetables grown both in normal and contaminated soils is discussed The role of PGPR in tomato production is dealt separately The impact of heavy metals on different vegetables and abatement of metal toxicity following metal tolerant PGPR and their consequential impact on vegetables grown in metal polluted soil is discussed Moreover recent advances in the management of vegetable diseases employing PGPR are addressed This volume is therefore of special interest to both academics professionals and practitioners working in the field of vegetable farming horticulture microbiology and plant protection sciences **Mycoremediation and Environmental Sustainability** Ram Prasad,S. Chandra Nayak,Ravindra Nath Kharwar,Nawal Kishor Dubey,2021-04-30 Volume 3 covers recent research with expanded coverage on this important area of remediation Mycoremediation is the form of bioremediation in which fungi based technology is used to decontaminate the environment Fungi are among the primary saprotrophic organisms in an ecosystem as they are efficient in the decomposition of organic matter Wood decay fungi especially white rot secretes extracellular enzymes and acids that break down lignin and cellulose Fungi have been proven to be a very cost effective and environmentally friendly way for helping to remove a wide array of toxins from damaged environments or wastewater These toxins include heavy metals persistent organic pollutants textile dyes leather tanning industry chemicals and wastewater petroleum fuels polycyclic aromatic hydrocarbon pharmaceuticals and personal care products pesticides and herbicides in land fresh water and marine environments Bioremediation of toxic organics by fungi is the most sustainable and green route for cleanup of contaminated sites and we discuss the multiple modes employed by fungi for detoxification of different toxic

and recalcitrant compounds including prominent fungal enzymes viz catalases general lipase laccases peroxidases and sometimes intracellular enzymes especially the cyrochrome P450 monooxygeneses Fungi play an important role in the biogeochemical cycling of manganese and other redox active metals which is related to their ability to survive radiation and other oxidative challenges This book covers recent research with more detail on the various types of fungi and associated fungal processes used to clean up wastes and wastewaters in contaminated environments and discusses their potential for environmental applications 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

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