

Naveen Kumar Arora *Editor*

Plant Microbes Symbiosis: Applied Facets

Plant Microbes Symbiosis Applied Facets

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Plant Microbes Symbiosis Applied Facets:

Plant Microbes Symbiosis Naveen Kumar Arora, 2014-11-30 *Plant Microbes Symbiosis: Applied Facets* Naveen Kumar Arora, 2014-10-30 Plants form mutualistic association with various microorganisms particularly in the rhizosphere region. The association benefits both the partners in a number of ways. A single plant can support the growth of diverse microbes and in reciprocation these microbes help the plant in several ways. A great deal of knowledge is now available on the mechanisms of action of plant growth promoting microbes in forming association with their partner plant and benefitting it. With ever increasing population and to achieve food security it has become utmost necessary to utilize these friendly microbes to enhance the crop yield and quality in an ecofriendly and sustainable manner. We already know about the huge negative impact of chemicals used in agriculture on the humans and the ecosystems as a whole. *Plant Microbes Symbiosis Applied Facets* provides a comprehensive knowledge on practical functional and purposeful utility of plant microbe interactions. The book reviews the utilization of beneficial microbes for crop yield enhancement and protection against diseases caused by phytopathogens and nutrient deficiencies. The tome also reviews the utility of plant growth promoting microbes in helping the plants to deal with abiotic stresses imposed by climate change and anthropogenic activities. The book showcases how plant microbe interactions are or can be utilized for reclamation of stressed soils and degradation of pollutants in a most effective and environment friendly manner. It also ascertains the reasons for the below par performance of the microbial based inoculants. The utilization of biotechnological tools for development of next generation bioformulations to combat the new challenges and overcome past hurdles has been discussed. This wonderful association between plants and microbes if used properly will not only enhance the crop yields and reclaim barren lands but also make our planet a better place to live on for all of its habitants.

Plant Microbe Interface Ajit Varma, Swati Tripathi, Ram Prasad, 2019-08-02 This book shares the latest insights into the genetic basis of molecular communication between plants and their microbial consortia. Further, the book highlights the capabilities of the rhizosphere and endosphere which help manage ecosystem responses to climate change, nutrient cycling and sequestration of carbon and discusses their application to the development and management of renewable energy sources. In their natural environments, plants are surrounded by a tremendous number of microorganisms. Some microbes directly interact with plants in a mutually beneficial fashion while others colonize plants solely for their own advantage. In addition, microbes can indirectly affect plants by drastically altering their environments. Understanding the complex nature of the plant microbe interface (PMI) can pave the way for novel strategies to improve plant productivity in an ecofriendly manner. The PMI approach focuses on understanding the physical, molecular and chemical interactions between organisms in order to determine their functional roles in biological, physical, chemical and environmental systems. Although several metabolites from plants and microbes have now been fully characterized, their roles in chemical interactions between these associates remain poorly understood and require further investigation.

Plant-Microbe Interaction: An Approach to

Sustainable Agriculture Devendra K. Choudhary, Ajit Varma, Narendra Tuteja, 2017-02-08 The book addresses current public concern about the adverse effect of agrochemicals and their effect on the agro ecosystem This book also aims to satisfy and contribute to the increasing interest in understanding the co operative activities among microbial populations and their interaction with plants It contains chapters on a variety of interrelated aspects of plant microbe interactions with a single theme of stress management and sustainable agriculture The book will be very useful for students academicians researcher working on plant microbe interaction and also for policy makers involved in food security and sustainable agriculture

Plant Microbiome: Stress Response Difuza Egamberdieva, Parvaiz Ahmad, 2018-02-06 This book presents state of the art research on the many facets of the plant microbiome including diversity ecology physiology and genomics as well as molecular mechanisms of plant microbe interactions Topics considered include the importance of microbial secondary metabolites in stimulating plant growth induced systemic resistance tolerance to abiotic stress and biological control of plant pathogens The respective contributions show how microbes help plants to cope with abiotic stresses and represent significant progress toward understanding the complex regulatory networks critical to host microbe interaction and plant adaptation in extreme environments New insights into the mechanisms of microbial actions in inducing plant stress tolerance open new doors for improving the efficacy of microbial strategies and could produce new ways of economically increasing crop yields without harming the environment As such this book offers an essential resource for students and researchers with an interest in plant microbe interaction as well as several possibilities for employing the plant microbiome in the enhancement of crop productivity under future climate change scenarios *Sustainable Green Technologies for*

Environmental Management Shachi Shah, V. Venkatramanan, Ram Prasad, 2019-02-19 Our Earth is considered as a natural system which organizes and controls itself However the present scale of anthropogenic activity is unprecedented in the history of mankind compelling the intelligentia to ponder over the scientific causes of the problems processes and sustainable and pragmatic solutions The current rate of resource use and consumption pattern are depleting the planet s finite resources and damaging life supporting ecosystems A large number of toxic substances are increasingly found in air water soil and flora and fauna We are in the midst of a period of increasing interconnected and complex global challenges that seek action across temporal and spatial scales diverse sectors and concerted efforts from global citizens The environment on account of human s action has been experiencing imbalances and ecological catastrophe Environmental issues like global climate change biodiversity loss the rapid depletion of natural resources degradation of global commons stratospheric ozone depletion have been restricting the safe operating space and transgressing the planetary boundaries endangering the existence of human societies The global environmental problems if not scientifically managed may end up in the civilizational collapse Nevertheless the underlying commonality among these environmental issues is interrelatedness complexity and difficulty in identifying and implementing solutions The global environmental challenges can be managed by adopting

sustainable green technologies which dovetails the principles of environmental sustainability with social and ecological sustainability Green growth is construed as a new development paradigm that sustains economic growth while at the same time ensuring environmental sustainability

Advances in Agricultural and Industrial Microbiology Suraja Kumar Nayak, Bighneswar Baliyarsingh, Ashutosh Singh, Ilaria Mannazzu, Bibhuti Bhusan Mishra, 2022-08-25 This book is developed in a lucid manner for readers to grasp information about the role and potential of microbes in sustainable agriculture computational strategies associated with it Present volume focuses on advancements of microbial research in increasing agricultural productivity and sustainability viz plant growth promotion by rhizobacterial biostimulants endophytes actinobacteria arbuscular mycorrhizal fungi and biocontrol Present day research is focused on role of soil microbes in agriculture diazotrophic azotobacterial N₂ fixation PGPR etc However there is dearth of information on bioremediation of agrochemicals biocontrol etc This book is a compilation of research advances in both the aspect from eminent experts around the globe In addition in silico mediated understandings of plant pathology use of artificial neural networks in phytopathogen prediction computational approaches in enhancing secondary metabolites production will be beneficial to professionals and academicians for sustainable agriculture This volume will be very helpful for the students teachers professionals and scientists concerned in agricultural production food security soil microbiology agricultural biotechnology and computational techniques

Improving soil health Professor William R. Horwath, 2022-10-11 Assesses the viability of management strategies implemented to improve soil health e.g. intercropping and zero tillage Provides a comprehensive coverage of the dimensions of soil health Reviews the role of organic and other amendments in improving soil health

Sustainable Horticulture Musa Seymen, Ertan Sait Kurtar, Ceknas Erdinc, Ajay Kumar, 2022-04-21 Sustainable Horticulture Microbial Inoculants and Stress Interaction gives insights into the applications and formulations of microbial inoculants In recent years the optimum yields of horticultural plants largely influenced by rising global temperature biotic stress attack of pathogens and abiotic stresses has created extra pressure for the horticulturalist to meet the need of optimum yield production for the burgeoning global population However the challenges of biotic and abiotic stress factors mitigated by traditional physical or chemicals methods include high application cost and adverse impact on quality limit the frequent use hence the solutions in this book create new avenues for progress This book covers those challenges and how microbial based bio inoculants are broadly used in horticulture to mitigate the challenges of biotic and abiotic stresses It provides an important contribution on how to apply efficient beneficial microbes microbial inoculants for a sustainable society Provides quality chapters from the leading academician and researchers from the different parts of the world Gives insights on the applications and formulations of microbial inoculants Covers the challenges of biotic and abiotic stress factors mitigated by traditional physical or chemicals methods that are costly

Advances in Agronomy, 2020-05-15 Advances in Agronomy Volume 162 continues to be recognized as a leading reference and first rate source for the latest research in agronomy Each volume

contains an eclectic group of reviews by leading scientists throughout the world As always the subjects covered are rich varied and exemplary of the abundant subject matter addressed by this long running serial Includes numerous timely state of the art reviews on the latest advancements in agronomy Features distinguished well recognized authors from around the world Builds upon this venerable and iconic review series Covers the extensive variety and breadth of subject matter in the crop and soil sciences

Plant Endophytes and Secondary Metabolites Dilfuza Egamberdieva, Javid A. Parray, Kakhramon Davranov, 2023-10-22 Plant Endophytes and Secondary Metabolites provides the latest insights into the essential roles of these beneficial elements in plant growth development stress tolerance and plant protection from soil borne disease The book provides a comprehensive guide addressing the usefulness and utility of endophytes towards enhancing plant tolerance to abiotic or biotic stress It identifies biomolecules with unique molecular architectures novel enzymes of industrial importance and explores the ecology and community structure of endophytes associated with host plants and their potential Plant Endophytes and Secondary Metabolites provides insights into the endophytic microbiomes that are associated with diverse environments and includes case studies and nano techniques for exploring endophytic potential The book addresses the needs of researchers and advanced level students in agriculture plant sciences and biochemistry seeking to understand plant and soil microbiome sustainable ecosystem services Covers all characteristic features of endophytes Considers all aspects surrounding the role of endophytes for ameliorating biotic and abiotic stress Explores potential usage of endophytes for industrial applications from variable resources Presents the scope and importance of endophytic nanotechnology

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 **Microbiome in Plant Health and Disease** Vivek Kumar,Ram Prasad,Manoj Kumar,Devendra K. Choudhary,2019-08-10 The book discusses the complex interactions between plants and their associated microbial communities It also elucidates the ways in which these microbiomes are connected with the plant system and how they affect plant health The different chapters describe how microbiomes affect plants with regard to immunity disease conditions stress management and productivity In addition the book describes how an additional plant genome functions as a whole organ system of the host and how it presents both challenges and opportunities for the plant system Moreover the book includes a dedicated section on using omics tools to understand these interactions and on exploiting them to their full potential *Plant Microbiome: Interactions, Mechanisms of Action, and Applications* Alok Kumar Srivastava,Prem Lal Kashyap,George Newcombe,Gustavo Santoyo,2021-08-24

Soil Contamination Marcelo L. Larramendy,Sonia Soloneski,2021-06-23 This edited book Soil Contamination Threats and Sustainable Solutions is intended to provide an update on different aspects of soil contamination exerted by a multiplicity of exogenous and endogenous causes We hope that this book will continue to increase information from diverse sources and to give some real life examples extending the appreciation of the complexity of this subject in a way that may stimulate new approaches in relevant fields **Microbiological Activity for Soil and Plant Health Management** Ravindra Soni,Deep Chandra Suyal,Prachi Bhargava,Reeta Goel,2021-11-24 Plants and the soil they grow in are confronted with severe biotic and abiotic stresses viz nutrient starvation salt stress drought flooding xenobiotic contamination in order to sustain in an ecosystem They also shape the microbial composition in their vicinity by modulating their secretions This book discusses the pressing demand for novel and potential microorganisms to support an environment friendly and cost effective way of stress management in the plants The book summarizes the processes and mechanisms involved in microbe assisted plant and soil stress management It discusses the challenges and opportunities in the application of microbial interactions in plant health It describes in detail the nutrient dynamics of different soil systems It includes important topics like agriculturally important genes and enzymes rhizosphere modeling engineering genetically engineered bio inoculants etc It also talks about the application of next generation technologies omics and nano based technologies In the recent years more than 50% of agricultural production relies on chemical fertilizers leading to serious health issues and environmental concerns This book provides natural solutions to these environmental concerns This book is useful for researchers and students in the field of microbiology agriculture soil biology and plant sciences *Updates on Rhizobacteria* Munazza Gull,2024-03-13 Updates on Rhizobacteria captures in a single volume the wealth of information about the presence appearance function and utilization of rhizobacteria Rhizobacteria play critical roles in nutrient acquisition and assimilation improvement of soil texture and the secretion and modulation of extracellular molecules such as hormones secondary metabolites antibiotics and various signal

compounds all of which lead to enhanced plant growth and development Rhizobacteria are also integral to plant microbe interactions and for modulating plant stress responses Updates on Rhizobacteria is a useful resource for instructors and students in advanced undergraduate and graduate courses on rhizobacteria It is also valuable for researchers seeking new relationships between biological processes that are linked by rhizobacteria and the environment

Biofertilizers Amitava Rakshit,Vijay Singh Meena,Manoj Parihar,H.B. Singh,A.K. Singh,2021-03-24 Biofertilizers Volume One Advances in Bio inoculants provides state of the art descriptions of various approaches techniques and basic fundamentals of BI used in crop fertilization practices The book presents research within a relevant theoretical framework to improve our understanding of core issues as applied to natural resource management Authored by renowned scientists actively working on bio inoculant biofertilizer and bio stimulant sciences the book addresses the scope of inexpensive and energy neutral bio inoculant technologies and the impact regulation has on biofertilizer utilization This book is a valuable reference for agricultural environmental scientists in academic and corporate environments graduate and post graduate students regulators and policymakers Informs researchers on how to develop innovative products and technologies that increase crop yields and quality while decreasing agricultural carbon footprints Focuses on production protocols and developments in the processing of bio inoculants bio stimulants and bio fertilizers Summarizes the biologically active compounds and examines current research areas

Sustainable Agriculture and the Environment Muhammad Farooq,Nirmali Gogoi,Michele Pisante,2023-04-14 Sustainable Agriculture and the Environment describes the relationship of agriculture society nature and the environment sustainable agriculture and sustainable development goals management of biophysical resources for sustainable food and environment traditional knowledge and innovative options and social and policy aspects of sustainable agriculture The book presents both environmental and economic principles helping readers in the development and application of robust policy and good institutional systems that execute on sustainable agriculture practices for a healthy environment and to combat climate resilience Includes case studies that provide real world insights Relates traditional knowledge and innovation maximizing the potential from both Reinforces our understanding of the role of sustainable agriculture in developing environmentally sustainable and profitable food systems

Soil Management for Sustainable Agriculture Nintu Mandal,Abir Dey,Rajiv Rakshit,2022-06-01 Taking a sustainable approach this volume explores the various soil management techniques It begins with an overview of the elementary concepts of soil management and then delves into new research and novel soil management tools and techniques Topics include Clays as a critical component in sustainable agriculture with respect to carbon sequestration in conjunction with its interaction with soil enzymes The potential utilization of microbes to mitigate crop stress Resource conservation technologies and prospective carbon management strategies The use of smart tools for monitoring soils Effective nutrient management approaches Nanotechnological interventions for soil management Techniques for the remediation of soils contaminated by metals and

pesticides

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