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Microbial Strategies for Crop Improvement

 Springer

Microbial Strategies For Crop Improvement

Abdulameer Ahmed Al-Laith



Microbial Strategies For Crop Improvement:

Microbial Strategies for Crop Improvement Mohammad Saghir Khan, Almas Zaidi, Javed Musarrat, 2009-08-25 With an ever increasing human population the demand placed upon the agriculture sector to supply more food is one of the greatest challenges for the agrarian community In order to meet this challenge environmentally unfriendly agrochemicals have played a key role in the green revolution and are even today commonly recommended to circumvent nutrient deficiencies of the soils The use of agrochemicals is though a major factor for improvement of plant production it causes a profound deteriorating effect on soil health soil fertility and in turn negatively affects the productivity and sustainability of crops Concern over disturbance to the microbial diversity and consequently soil fertility as these microbes are involved in biogeochemical processes as well as economic constraints have prompted fundamental and applied research to look for new agro biotechnologies that can ensure competitive yields by providing sufficiently not only essential nutrients to the plants but also help to protect the health of soils by mitigating the toxic effects of certain pollutants In this regard the role of naturally abundant yet functionally fully unexplored microorganisms such as biofertilizers assume a special significance in the context of supplementing plant nutrients cost and environmental impact under both conventional practices and derelict environments Therefore current developments in sustainability involve a rational exploitation of soil microbial communities and the use of inexpensive though less bioavailable sources of plant nutrients which may be made available to plants by microbially mediated processes

Rhizosphere Revelations: Microbial Strategies for Sustainable Agriculture, 2025-08-01 Rhizosphere Revelations Microbial Strategies for Sustainable Agriculture Volume 116 in the Advances in Botanical Research series highlights new advances in the field with this new volume presenting interesting chapters on topics such as Plant Microbe Partnerships Symbiotic Secrets of the Rhizosphere The role of rhizosphere microbes in phosphorus mineralization and acquisition Microbial Contributions to Soil Carbon Sequestration Role of Mycorrhizal Fungi in Nutrient Cycling Bioremediation Potential of Rhizosphere Microbes Rhizosphere Remedies Harnessing AMF for Disease Management and Genetic Engineering of Rhizosphere Microbes Provides the latest information on Rhizosphere Revelations Offers outstanding and original reviews on a range of grapevine research topics Serves as an indispensable reference for researchers and students alike

Recent Advances in Food Biotechnology Ajay Kumar, Kiran Patrni, Vijai Singh, 2022-06-24 This book highlights important aspects of food biotechnology It is very thoughtfully divided into five sections The first section introduces the readers to food biotechnology and discusses functional foods use of plant and animal biotechnology in improving food quality The second section deals with food microbiology and includes topics such as application of microbial surfactants use of probiotics beneficial microorganisms used in food industry etc The third section describes important macro and micromolecules in foods It includes chapters on food enzymes gluten free formulations use of biopolymers biofortification of food and other important topics The next section discusses novel technologies such as use of nanotechnology in food

industry reverse micelle techniques genome editing in food crops etc The book culminates with a section on food quality and management It describes important topics about biosafety and regulatory issues in food biotechnology This book is meant for students researchers and course instructors in food science food technology and biotechnology It is also useful for industry experts in the area of food technology

Soil Microbiomes for Sustainable Agriculture Ajar Nath Yadav,2021-06-28

This book encompasses current knowledge of soil microbiomes and their potential biotechnological application for plant growth crop yield and soil health under the natural as well as harsh environmental conditions for sustainable agriculture The microbes are ubiquitous in nature The soil is a natural hotspot of the soil microbiome The soil microbiome plays a critical role in the maintenance of global nutrient balance and ecosystem functioning The soil microbiomes are associated with plant ecosystems through the intense network of plant microbe interactions The microbes present in bulk soil move toward the rhizospheric region due to the release of different nutrients by plant systems The rhizospheric microbes may survive or proliferate in rhizospheric zone depending on the extent of influences of the chemicals secreted into the soil by roots The root exudates contain the principal nutrients factors amino acids glucose fructose and sucrose The microbes present in rhizospheric region have capabilities to fix atmospheric nitrogen produce different phytohormones and solubilize phosphorus potassium and zinc The plant systems take these nutrients for their growth and developments These soil and plant associated microbes also play an important role in protection of plants from different plant pathogenic organisms by producing different secondary metabolites such as ammonia hydrogen cyanide siderophores and hydrolytic enzymes The soil microbiomes with plant growth promoting PGP attributes have emerged as an important and promising tool for sustainable agriculture The soil microbiomes promote the plant growth and enhance the crop yield and soil fertility via directly or indirectly different plant growth promoting mechanism The soil microbes help the plant for adaptation in extreme habitats by mitigating the abiotic stress of high low temperatures hypersalinity drought and acidic alkaline soil These PGP microbes are used as biofertilizers bioinoculants to replace the harmful chemical fertilizers for sustainable agriculture and environments The aim of the book Soil Microbiomes for Sustainable Agriculture is to provide the recent advances in mechanisms of plant growth promotion and applications of soil microbiomes for mitigation of different abiotic stresses in plants The book is useful to scientists researchers and students related to microbiology biotechnology agriculture molecular biology environmental biology and related subjects

Microorganisms for Green Revolution Deepak G. Panpatte,Yogeshvari K. Jhala,Harsha N.

Shelat,Rajababu V. Vyas,2018-01-24 This book explores basic and applied aspects of microorganisms which have a unique ability to cope with abiotic stresses such as drought salinity and changing climate as well as biodegrader microorganisms and their functional roles Further readers will find detailed information on all aspects that are required to make a microbe agriculturally beneficial The book s primary focus is on microbes that are essentially hidden miniature packages of nature that influence agro ecosystems Inviting papers by prominent national and international scientists working in the field of

agricultural microbiology it addresses the biodegrader group of microbial inoculants Each chapter covers the respective mechanism of action and recent advances in agricultural microbiology In addition the book especially highlights innovations involving agriculturally beneficial microorganisms including strategies for coping with a changing climate and methods for developing microbial inoculants and promoting climate smart agriculture The information presented here is based on the authors extensive experience in the subject area gathered in the course of their careers in the field of agricultural microbiology The book offers a valuable resource for all readers who are actively involved in research on agriculturally beneficial microorganisms In addition it will help prepare readers for the future challenges that climate change will pose for agriculture and will help to bridge the current gaps between different scientific communities

Climate Change and Soil Microorganisms for Environmental Sustainability Meenu Saraf,Dweipayan Goswami,Dinesh Kumar Maheshwari,2025-05-16

This book provides information on the plant microbe interactions which hold vital implications for addressing the global challenges of climate change food security and environmental conservation It also delves into the interconnectedness within the microbial world and its association with plants The phenomenon of quorum sensing a bacterial communication method that facilitates collective decision making has been discussed as well The authors illustrate how these mechanisms enable soil microbes to engage in symbiotic relationships with plants thereby promoting broader environmental sustainability goals Facing the pressing global issue of climate change the book elucidates the impact of these symbiotic relationships on climate regulation tracing how these interactions influence the carbon cycle and greenhouse gases balance This contributed volume thus weaves a compelling narrative that combines scientific knowledge with the global sustainable development goals The book is useful for scholars and researchers working in microbiology botany ecology and environmental sciences

The Role of the Microbiome in Plant and Soil Health in a Changing Climate Amita Kaundal,Dinesh Yadav,Anoop Kumar Srivastava,2024-10-14

In the past few decades climate change has become one of the biggest threats to the Earth s ecosystem and biodiversity Several environmental stress factors such as salinity and drought have already threatened the viability of sustainable agriculture an alarm bell to researchers Soil salinity hampers development through its effects on the morphological physiological and biochemical processes associated with plant growth Drought on the other hand affects the productivity of crops It is anticipated that by 2050 drought will be the leading cause of hampered crop production due to increases in the magnitude of climate change These changes present a formidable challenge when it comes to feeding a global population which will require an 0.84% annual increase in crop production Climate change induced environmental changes and the continuously growing world population therefore demand renewed efforts to increase food production In this regard the role of the phytobiome in assuring soil plant health will be an important issue across crop wide and area wide research A plant s microbiome plays an important role in guiding plant growth and development Plants adapted to extreme conditions such as those in desert or saline environments harbor microbes in their rhizosphere or

endosphere that help to provide the required physiological resistance necessary to survive in those environments Microorganisms like bacteria fungi and viruses associated with plant roots increase plants resistance to various abiotic and biotic stresses Microorganisms also moderate stress for crop plants paving the way for sustainable agriculture New and Future Developments in Microbial Biotechnology and Bioengineering Ali Asghar Rastegari,Ajar Nath Yadav,Neelam Yadav,2020-05-15 New and Future Developments in Microbial Biotechnology and Bioengineering Trends of Microbial Biotechnology for Sustainable Agriculture and Biomedicine Systems Perspectives for Human Health discusses how microbial biotechnology helps us understand new strategies to reduce pathogens and drug resistance through microbial biotechnology The most commonly used probiotic bacteria are Lactobacillus and Bifidobacterium Therefore the probiotic strains exhibit powerful anti inflammatory antiallergic and other important properties This new book provides an indispensable reference source for engineers bioengineers biochemists biotechnologists microbiologists pharmacologists and researchers who want to know about the unique properties of this microbe and explore its sustainable biomedicine future applications Introduces the principles of microbial biotechnology and its application for sustainable biomedicine system Explores various microbes and their beneficial application for biofortification of crops for micronutrients Explains the potentials and significance of probiotics prebiotics and synbiotics in health and disease Includes current applications of beneficial microbes as Functional Food Products of Pharmaceutical Importance **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 microbial 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 Microbial Biotechnology in Horticulture, Vol. 1 R C Ray,O.P. Ward,2006-01-05 Vol 3 Microbiology of Wine Making Current Knowledge and Future Trends Tropical and Subtropical Fruit Fermented Beverages Fermentation and Processing of Coffee and Cocoa Microbial Pectinases Application in Horticultural Industries Lignocellulose Biotechnology Bioconversion and Cultivation of Edible Mushrooms Solid state Fermentation and Value added Utilization of Horticultural Processing Wastes Single Cell Protein from Horticultural and Related Food Processing Wastes Medicinal Mushrooms Commercialization of Microbial Biotechnology in Horticulture Summary Outlook of Achievements Constraints and Prospects *Biotechnology of Plant-microbe Interactions* James P. Nakas,Charles Hagedorn,1990 *Microbial*

Biotechnology for Sustainable Development and Productivity R. C. Rajak, 2000 The Book Has Been Brought Out On The Occasion Of Superannuation Of Prof Suresh K Hasija An Eminent Mycologist Of The Country The Main Objective In Compilation Of This Volume Is To Highlight The Developments And Achievements Of Biotechnology Of Microbe

Phosphate Solubilizing Microbes for Crop Improvement Mohammad Saghir Khan, Almas Zaidi, 2009 *Advances in Microbial Biotechnology*, 1999 Published to honour Prof Krishna Gopal Mukerji for his endeavour in mycology plant pathology microbial ecology and microbial biotechnology *Seed Treatment for Eradication of Common and Fuscos Blight Bacteria from Navy Bean Seed* Mintarsih Adimihardja, 1981 Biotechnological Innovations in Crop Improvement Open Universiteit (Heerlen, Netherlands), 1991 This work is concerned with biotechnical innovations in crop improvement It is part of a series of biotechnology texts suitable for self study or as the basis for in house training schemes It includes reference questions for students key phrases and a summary of objectives for each chapter *Mededelingen van de Faculteit Landbouwwetenschappen, Rijksuniversiteit Gent*, 1987 Osmoregulation in Rhizobium Meliloti Abdulameer Ahmed Al-Laith, 1996 **Recent Progress in Medicinal Plants: Crop Improvement, Production Technology, Trade and Commerce** V. K. Singh, 2002 **Journal of Agricultural Entomology**, 1994

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