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Utilization of stress tolerant bacteria for reclamation of sodic soil



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Utilization of Stress Tolerant Bacteria for Reclamation of Sodic Soil Rachana Singh, Vipul Verma, 2015-12-18 Drought and salt stress are the major problems all over the world. High salt contents in soils make the soil sodic and affect crop cultivation in large areas of both developed and developing countries. A sodic soil contains high concentration of sodium content associated with the negatively charged clay particles. Abundance of Na and Cl ions decreases the activity of other essential elements in the soil and can lead to reduction in uptake of growth support by the plants. The direct effects of salt stress on plant growth involves plant nutrient deficiency growth and yield. To overcome the problem of fertility in sodic soils, microbes could be used to replenish the nutrients and create a balance soil. Soil bacteria support and protect plants against abiotic stresses and enhance yield both directly and indirectly. Use of salt tolerant bacteria is definitely a boon for the reclamation of sodic soil to provide unstressed environment for plants. This book is an effort to prove the concept by research.

Ecophysiology, Abiotic Stress Responses and Utilization of Halophytes Mirza Hasanuzzaman, Kamrun Nahar, Münir Öztürk, 2019-04-12 Halophytes are those plant species that can tolerate high salt concentrations. There are diversified species of halophytes suited for growth in various saline regions around the world, e.g. coastal saline soil, soils of mangrove forests, wetlands, marshlands, lands of arid and semiarid regions, and agricultural fields. These plants can be grown in soil and water containing high salt concentrations and unsuitable for conventional crops and can be good sources of food, fuel, fodder, fiber, essential oils, and medicine. Moreover, halophytes can be exploited as significant and major plant species for the desalination and restoration of saline soils as well as phytoremediation. This book highlights recent advances in exploring the unique features of halophytes and their potential uses in our changing environment.

Mitigation of Plant Abiotic Stress by Microorganisms Gustavo Santoyo, Ajay Kumar, Mohd Aamir, Sivakumar Utandhi, 2022-04-30 The microbial ecosystem provides an indigenous system for improving plant growth, health, and stress resilience. Plant microbiota, including isolated microbial communities, have been studied to further understand the functional capacities, ecological structure, and dynamics of the plant-microbe interaction. Due to climatic changes, there is an urgent need to bring microbial innovations into practice. *Mitigation of Plant Abiotic Stress by Microorganisms: Applicability and Future Directions* is a comprehensive review of the different strategies available to improve the plant microbiome. Chapters include key topics such as harnessing endophytic microbial diversity, microbial genes for improving abiotic stress tolerance, and microbial bioformulations. Putting these strategies into practice can have varying success in the field, so it is crucial that scientists are equipped with the knowledge of which microorganisms are needed, as well as the use and suitability of delivery approaches and formulations. This title will be an essential read for researchers and students interested in plant microbial technologies and plant bio-stimulants, plant pathology, biocontrol, agronomy, and environmental mediation. It discusses adaptive mechanisms of plants against multiple stresses, highlights diversity of symbiotic microorganisms associated with insects, and their impact on host plants. Provides

functional genomics tools for studying microbe mediated stress tolerance

Improving Stress Resilience in Plants

Mohammad Abass Ahanger, Javaid Akthar Bhat, Parvaiz Ahmad, Riffat John, 2023-11-23 *Improving Stress Resilience in Plants Physiological and Biochemical Basis and Utilization in Breeding* addresses the urgent need for improved understanding of major plant stress tolerance mechanisms the identification of the genes and gene products that are key to improving those mechanisms and means of optimizing those genes through molecular approaches With a focus on plant physiological and biochemical attributes at both cellular and whole plant levels this book includes the latest information on crosstalk between the various signaling molecules and quantitative trait locus QTL Further it explores the extension of these mechanisms to breeding approaches confirming overall understanding and inspiring further research Written by a team of global experts and presented in three thematic sections the book provides insights into physical adaptations metabolism and pathways and breeding techniques including CRISPR and conventional approaches to reduce the negative effects of stresses and improve crop yield even under stress conditions *Improving Stress Resilience in Plants Physiological and Biochemical Basis and Utilization in Breeding* is ideal for researchers academics and advanced students seeking to improve stress tolerance among crop plants and developing key future strategies for sustainable food production Explores key strategies including signaling molecules and Quantitative Trait Locus QTLs Highlights stress mitigating agents for improved crop yield Provides an integrated and holistic overview enabling and inspiring further research toward improved food security

Bacteria in Agrobiological Stress Management Dinesh K. Maheshwari, 2012-01-05 The future of agriculture strongly depends on our ability to enhance productivity without sacrificing long term production potential An ecologically and economically sustainable strategy is the application of microorganisms such as the diverse bacterial species of plant growth promoting bacteria PGPR The use of these bio resources for the enhancement of crop productivity is gaining worldwide importance *Bacteria in Agrobiological Stress Management* covers the major aspects on PGPR in amelioration of both abiotic and biotic stresses PGPR mediated in priming of plant defense reactions nutrient availability and management in saline and cold environment hormonal signaling ACC deaminase and its role in ethylene regulation under harsh conditions are suitably described

Microbes in Land Use Change Management Jay Shankar Singh, Shashank Tiwari, Chhatarpal Singh, Anil Kumar Singh, 2021-08-20 *Microbes in Land Use Change Management* details the various roles of microbial resources in management of land uses and how the microbes can be used for the source of income due to their cultivation for the purpose of biomass and bioenergy production Using various techniques the disturbed and marginal lands may also be restored eco friendly in present era to fulfil the feeding needs of mankind around the globe *Microbes in Land Use Change Management* provides standard and up to date information towards the land use change management using various microbial technologies to enhance the productivity of agriculture Needless to say that *Microbes in Land Use Change Management* also considers the areas including generation of alternative energy sources restoration of degraded and marginal lands mitigation of global

warming gases and next generation omics technique etc Land use change affects environment conditions and soil microbial community Microbial population and its species diversity have influence in maintaining ecosystem balance The study of changes of microbial population provides an idea about the variation occurring in a specific area and possibilities of restoration Meant for a multidisciplinary audience Microbes in Land Use Change Management shows the need of next generation omics technologies to explore microbial diversity Describes the role of microbes in generation of alternative source of energy Gives recent information related to various microbial technology and their diversified applications Provides thorough insight in the problems related to landscape dynamics restoration of soil reclamation of lands mitigation of global warming gases etc eco friendly way using versatility of microbes Includes microbial tools and technology in reclamation of degraded disturbed and marginal lands mitigation of global warming gases

Halophytes: Salt Stress Tolerance

Mechanisms and Potential Use Raoudha Abdellaoui, Esmaeil Bakhshandeh, Fayçal Boughalleb, Ali El-Keblawy, Amr Adel Elkelish, Hedi Mighri, 2023-07-10

Approaches for Enhancing Abiotic Stress Tolerance in Plants Mirza

Hasanuzzaman, Kamrun Nahar, Masayuki Fujita, Hirosuke Oku, Tofazzal Islam, 2019-01-10 Plants are frequently exposed to unfavorable and adverse environmental conditions known as abiotic stressors These factors can include salinity drought heat cold flooding heavy metals and UV radiation which pose serious threats to the sustainability of crop yields Since abiotic stresses are major constraints for crop production finding the approaches to enhance stress tolerance is crucial to increase crop production and increase food security This book discusses approaches to enhance abiotic stress tolerance in crop plants on a global scale Plants scientists and breeders will learn how to further mitigate plant responses and develop new crop varieties for the changing climate

Beneficial Microbes for Sustainable Agriculture under Stress Conditions Tongmin

Sa, 2024-03-19 Beneficial Microbes for Sustainable Agriculture under Abiotic Stress Functional Traits and Regulation highlights the potential for microbe mediated stress phytolerance to be improved by presenting multiple scenarios of application and results In most research and studies abiotic stress is applied singularly to specific plants inoculated with a bioinoculum or a bacterial consortium to isolate specific plant microbe responses However in reality plants are continually exposed to a multitude of different stresses simultaneously occurring This book presents bacteria functional traits and bacteria mediated plant responses under both specific or combined stress conditions Collectively it provides insights into bacterial functional traits and bacteria mediated plant responses in a wide range of conditions providing foundational understanding of their potential benefits and inspiring further research The book centers on specific bacterial strains and groups which have been shown to effectively promote stress tolerance and which could be utilized to boost agricultural production under stress conditions Their potential utilization in stress affected lands not just improves crop production but could also be in line with sustainable agriculture With the advancement of tools such as Omics related technologies emerging information on bacterial functional traits and regulations on bacteria mediated phytotolerance will also allow us to develop

relevant biotechnologies harnessing potentials of plant bacteria interactions under stress conditions The information in this volume will be of interest to those working toward these next steps Includes microbial functional traits and responses common to all stresses unique to specific stress and shared by multiple stresses Focuses on microbial strains and groups proven to be most effective in promoting stress tolerance Explores opportunities toward improvement of sustainable agriculture and resulting food security

Halophiles Dinesh K Maheshwari, Meenu Saraf, 2015-09-16 The world of halophiles is quite diverse and their representatives in three domains of life i.e. archaea, bacteria and eukarya They are found all over the small subunit rRNA based tree of life and these micro organisms are adapted to salt concentration up to saturation hence able to grow at 300g l NaCl concentration Their metabolic diversity is high as well encompassing oxygenic and anoxygenic phototrophs aerobic heterotrophs denitrifiers sulphate reducers fermenters and methanogens The proteins of halophiles are magnificently engineered to function in a milieu containing 2-5M salt that encodes genes represent a valuable repository and resource for reconstruction and visualizing processes of habitat selection and adaptive evolution Search for new enzymes endowed with novel activities and enhanced stability continues to be desirable purpose for important commercial production of biotechnological significance These poly extremophiles proved excellent source of enzymes and metabolites possessing inherent ability to function in extreme conditions of high salt alkaline pH and facilitating catalysis for industrial application in food processing industrial bioconversion bioremediation etc In fact it has just begun to realize the great potential and true extent of diversity and suitable applications if explored them judiciously This book highlights current applications and research on halophiles to provide a timely overview Chapters are written by expert authors from around the world and include topics of varied importance which include their role to play in enzyme production restoration of soil fertility and plant growth antimicrobial and biocatalytic potential biomolecules in nanotechnology and aspects of quorum sensing The book is divided into three sections dealing with biodiversity biotechnology and sustainable exploitation of halophiles This major new work represents a valuable source of information to all those scientists interested in microorganisms in general and extremophiles in particular with respect to their innovative products and applications

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