M. Ashraf M. Ozturk M.S.A. Ahmad *Editors*

Plant Adaptation and Phytoremediation



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Plant Adaptation And Phytoremediation:

Plant Adaptation and Phytoremediation M. Ashraf, M. Ozturk, M. S. A. Ahmad, 2010-08-17 The problems engendered by the conflicting imperatives of development and ecology show no sign of ending and every day more locations are added to the list of landscapes poisoned by human activity This vital book featuring an international set of authors is a key reference for researchers and environmental managers as well as anyone involved in the mining industry or landscape remediation The comprehensive coverage of current approaches to phytoremediation begins by examining the problem It looks at natural and human induced toxins and their effects on natural vegetation as well as agricultural crops Particular attention is paid to the two largest challenges to remediation heavy metals and the salt stress that is impeding agricultural productivity worldwide The text moves on to focus on the efficacy of different plant species in removing toxic pollutants from the environment Along with analysis of a number of case studies this section includes new and updated information on the mechanism of toxin tolerance in plants Soil Remediation and Plants Khalid Hakeem, Muhammad Sabir, Munir Ozturk, Ahmet Ruhi Mermut, 2014-08-29 The soil is being contaminated continuously by a large number of pollutants Among them heavy metals are an exclusive group of toxicants because they are stable and difficult to disseminate into non toxic forms The ever increasing concentrations of such pollutants in the soil are considered serious threats toward everyone s health and the environment Many techniques are used to clean eliminate obliterate or sequester these hazardous pollutants from the soil However these techniques can be costly labor intensive and often disquieting Phytoremediation is a simple cost effective environmental friendly and fast emerging new technology for eliminating toxic heavy metals and other related soil pollutants Soil Remediation and Plants provides a common platform for biologists agricultural engineers environmental scientists and chemists working with a common aim of finding sustainable solutions to various environmental issues The book provides an overview of ecosystem approaches and phytotechnologies and their cumulative significance in relation to solving various environmental problems Identifies the molecular mechanisms through which plants are able to remediate pollutants from the soil Examines the challenges and possibilities towards the various phytoremediation candidates Includes the latest research and ongoing progress in phytoremediation Plant-Based Remediation Processes Dharmendra Kumar Gupta, 2013-03-12 Phytoremediation is an emerging technology that employs higher plants for the clean up of contaminated environments Basic and applied research have unequivocally demonstrated that selected plant species possess the genetic potential to accumulate degrade metabolize and immobilize a wide range of contaminants The main focus of this volume is on the recent advances of technologies using green plants for remediation of various metals and metalloids Topics include biomonitoring of heavy metal pollution amendments of higher uptake of toxic metals transport of heavy metals in plants and toxicity mechanisms Further chapters discuss agro technological methods for minimizing pollution while improving soil quality transgenic approaches to heavy metal remediation and present protocols for metal remediation via in vitro root cultures

Plants, Pollutants and Remediation Münir Öztürk, Muhammad Ashraf, Ahmet Aksoy, M. S. A. Ahmad, Khalid Rehman Hakeem, 2016-01-12 In the era of current industrial and civil development everyone is expressing a deep concern about the problem of environmental pollution The majority of the global community has a vested interest in supporting and sustaining any move for the protection of environment In the greater part of the last century it was the fast pace of industrialization galloping demand for energy and reckless exploitation of natural resources that were mainly responsible for creating the problem of environmental pollution In the current scenario high illiteracy rates of the developing nations leads to increasing environmental pollution When it comes to the hazards of environmental pollution there is only a very thin dividing line between different countries One pollutes and the other suffers there are no eventual winners without significant changes globally Pollution is posing serious threats to all kinds of diversities on earth in particular plants The plant world is of vital importance for our planet It is a worldwide priority aimed at better meeting the needs for food livelihoods and nature To meet the food demand of fast growing population global food production will have to be doubled The sustainability of food production depends on the sustainability of plant resources and using tolerant varieties to augment food production This volume therefore covers discussions on the recent developments in this connection and the emerging role of plants as indicators remediation and such related issues as biodiversity conservation and the effects of on edible plants It reviews issues concerning the future of plant life Taking cognizance of this several experts from different parts of the globe have contributed from their experience and knowledge to the critical issues of Environmental Pollution and the Role of Plants in Plant-Microbe Interaction: An Approach to Sustainable Agriculture Devendra K. Choudhary, Ajit this connection 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 **Plants Under Metal and Metalloid Stress** Mirza Hasanuzzaman, Kamrun Nahar, Masayuki Fujita, 2018-11-30 In the industrial era the most important potential threat to crop production is abiotic stress including toxic metal metalloid stress Growing populations and rapid industrialization lead to the generation and release of huge amounts of toxic metals metalloids into the environment altering plant physiological processes and reducing yields In the last few decades there has been extensive research to elucidate the mechanisms of tolerance to metal metalloid toxicity and ways to improve the defense system in plants Use of exogenous photoprotectants such as osmoprotectants plant nutrients phytohormones signaling molecules antioxidants amino acids and organic acids are widely being used to improve plants tolerance to metal metalloid stress Recently phytoremediation approaches have been

effectively employed to remediate metal metalloid pollution This book presents the latest insights into plant responses and tolerance in plants grown under metal metalloids stress to provide a better understanding of the topic and the future outlook

Handbook of Research on Inventive Bioremediation Techniques Bhakta, Jatindra Nath, 2017-01-26 The rapid progression of technology has significantly impacted population growth urbanization and industrialization in modern society These developments while positive on the surface have created critical environmental problems in recent years The Handbook of Research on Inventive Bioremediation Techniques is a comprehensive reference source for the latest scholarly information on optimizing bioremediation technologies and methods to control pollution and enhance sustainability and conservation initiatives for the environment Highlighting pivotal research perspectives on topics such as biodegradation microbial tools and green technology this publication is ideally designed for academics professionals graduate students and practitioners interested in emerging techniques for environmental decontamination Plant Adaptation Strategies in Changing Environment Vertika Shukla, Sanjeev Kumar, Narendra Kumar, 2017-12-29 This book addresses the crucial aspects of plant adaptation strategies in higher as well as lower plant groups Stress induced by changing environmental conditions disrupts or alter various physiological and metabolic processes in organisms however plants have evolved various defence strategies to cope with external perturbations The book discusses speciation changes in response to extreme ecological conditions such as cold heat aridity salinity altitude incidental UV radiation and high light intensity which are particularly relevant in the current scenario of global warming It also explores the effects of human activities and emission of phytotoxic gases Further it describes the overall adaptation strategies and the multifaceted mechanisms involved integrated complex mechanism ranging from morphological to molecular alterations focusing on plants capabilities to create an inner environment to survive the altered or extreme conditions This book is a valuable tool for graduate and research students as well as for anyone and Microbiomes to Molecular Mechanisms Radhouane Chaffai, Markkandan Ganesan, Ameur Cherif, 2024-05-23 The book Plant Adaptation to Abiotic Stress From Signaling Pathways and Microbiomes to Molecular Mechanisms comprehensively examines abiotic stressors cold heat light salinity and water scarcity across its 18 chapters Focusing particularly on Arabidopsis thaliana it investigates abiotic stresses adaptation strategies and molecular pathways Furthermore it addresses broader issues including climate challenges food security water scarcity and agricultural concerns such as soil acidity and aluminum stress It proposes adaptive measures for cultivating stress resistant crops and sheds light on genetic modification methods such as CRISPR Cas9 integrating nanotechnology in plant breeding Emphasizing transcription factors post translational protein modifications and diverse noncoding RNAs long noncoding RNAs circular RNAs microRNAs and small interfering RNAs the book highlights their role in regulating gene expression during stress responses It specifically underscores secondary messengers plant hormones and MAPK cascades within intracellular signaling pathways Additionally

it discusses the roles of endophytic bacteria and microbial interactions in bolstering stress resilience. The book explores state of the art research methodologies in plant breeding omics approaches and nanotechnology integration for developing stress resistant crop varieties advocating for agricultural sustainability Tailored for plant physiology scientists academics and postgraduate students it amalgamates diverse research findings serving as a pivotal resource to comprehend intricate plant responses to environmental challenges Plant Metal Interaction Parvaiz Ahmad, 2016-02-02 Plant Metal Interaction Emerging Remediation Techniques covers different heavy metals and their effect on soils and plants along with the remediation techniques currently available As cultivable land is declining day by day as a result of increased metals in our soil and water there is an urgent need to remediate these effects This multi contributed book is divided into four sections covering the whole of plant metal interactions including heavy metals approaches to alleviate heavy metal stress microbial approaches to remove heavy metals and phytoremediation Provides an overview of the effect of different heavy metals on growth biochemical reactions and physiology of various plants Serves as a reference guide for available techniques challenges and possible solutions in heavy metal remediation Covers sustainable technologies in uptake and removal of heavy Innovative Bio-Based Technologies for Environmental Remediation Pardeep Singh, Chaudhery Mustansar metals Hussain, Mika Sillanpää, 2022-01-20 Innovative Bio Based Technologies for Environmental Remediation explores the recent applications of both the latest and broad practical and theoretical aspects of environmental remediation with an aim to combine various innovation based biotechnology for waste management waste minimization and waste to economy This book summarizes the recent progress of bio based technologies for environmental remediation at both an experimental and a theoretical model level An emphasis has been made on trends and the probable future of sustainable techniques to reduce waste and harmful compounds from the environment Biological based technologies have low operating costs and involve direct degradation of organic pollutants without the release of toxic intermediates Recent applications covered in this book include process intensification in bio based approaches green technology phytoremediation biopolymers biosurfactants for environmental applications and other bio based technologies with sustainable design and the future of remediation are also discussed This book is an important reference source for environmental scientists and engineers who are seeking to improve their understanding of how bio based technologies are playing an increasingly important role in environmental remediation It brings together recent innovations and practices of bio based technologies for environmental remediation outlines major bio based technologies and discusses biopolymers and biosurfactants for environmental management **Molecular Analysis of** Plant Adaptation to the Environment M.J. Hawkesford, Peter Buchner, 2013-11-11 Adverse environmental factors can impose stress on plants and influence the expression of the full genetic potential for growth and reproduction The capability of plants to develop plastic response reactions to adapt to environmental stress situations is unique in the biological world A goal of the research described in this volume is to increase crop productivity particular in regions where the environment

imposes stress An understanding of the principles involved in plant adaptation to environmental stress will enable optimisation of practices to improve agronomic production and minimise damaging environmental impact The aim of this volume is to link the rapidly advancing and increasingly specialist field of molecular biology with plant physiology at the ecosystem level The book includes chapters focused on some principle methods and a series of up to date review chapters on plant adaptation to a variety of specific stresses The utilisation of newly available genome information is emphasised Of particular importance is the desire to highlight the current potential of such approaches and how diverse disciplines can interact and complement one another The book is aimed at both the specialist and the advanced student Solutions for Elemental Deficiency and Excess in Crop Plants Kumkum Mishra, Pramod Kumar Tandon, Sudhakar Srivastava, 2020-11-28 This book covers all aspects of deficiency of essential elements and excess of toxic ones in crop plants The metal deficiency and toxicity are the two sides of same problem that are threatening to sustainable agricultural growth The book presents prospective strategies for the management of elemental nutrition of crop plants Chapters are arranged in a manner so as to develop a lucid picture of the topic beginning from basics to advanced research The content is supplemented with flow charts and figures to make it convenient for readers to holistically grasp the concepts It will be a value addition for students research scholars and professionals in understanding the basics as well latest developments in the area of metal deficiency and excess in crop plants Metalloids in Plants Rupesh Deshmukh, Durgesh Kumar Tripathi, Gea Guerriero, 2020-06-29 Understanding metalloids and the potential impact they can have upon crop success or failure Metalloids have a complex relationship with plant life Exhibiting a combination of metal and non metal characteristics this small group of elements which includes boron B silicon Si germanium Ge arsenic As antimony Sb and tellurium Te may hinder or enhance the growth and survival of crops The causes underlying the effects that different metalloids may have upon certain plants range from genetic variance to anatomical factors the complexities of which can pose a challenge to botanists and agriculturalists of all backgrounds With Metalloids in Plants a group of leading plant scientists present a complete guide to the beneficial and adverse impacts of metalloids at morphological anatomical biochemical and molecular levels Insightful analysis of data on genetic regulation helps to inform the optimization of farming indicating how one may boost the uptake of beneficial metalloids and reduce the influence of toxic ones Contained within this essential new text there are Expert analyses of the role of metalloids in plants covering their benefits as well as their adverse effects Explanations of the physiological biochemical and genetic factors at play in plant uptake of metalloids Outlines of the breeding and genetic engineering techniques involved in the generation of resistant crops Written for students and professionals in the fields of agriculture botany molecular biology and biotechnology Metalloids in Plants is an invaluable overview of the relationship between crops and these unusual elements Introduction and Application of Organic Fertilizers as Protectors of Our Environment Munir Ozturk, Nudrat Aisha Akram, Bengu Turkyilmaz Unal, Muhammad Ashraf, 2022-02-22 This book

gives the latest information on advances in organic agriculture which can be used by agroindustry people as well as agricultural engineers and with practical examples for farmers It provides important information covering multidisciplinary approaches on environmental awareness organic agricultural production as well as organic fertilizers. The chapters here are prepared by experts in the field who present and discuss the principles of a wide range of practical ideas with examples This book also presents novel ideas and suggestions for future research in organic agricultural production. The topics included in this book are based on surveys together with literature reviews to enable the academic and industrial readers to evaluate what they see as specific to their own discipline The chapters include a wide range of topics which will also make it easy to make comparisons between different disciplines **Response of Field Crops to Abiotic Stress** Shuvasish Choudhury, Debojyoti Moulick, 2022-12-15 Response of Field Crops to Abiotic Stress Current Status and Future Prospects is a collection of useful scientific resources for students researchers and academicians on diverse aspects of abiotic stress responses in field crops The book provides its readers with a vivid understanding of abiotic stress responses in field crops by covering diverse aspects It offers exhaustive explanations of the impact and responses of field crops to abiotic stresses This book offers comprehensive coverage of Climate change impact on field crops Arsenic and aluminium stress responses in field crops Drought high temperature and flooding stress responses in field crops Salinity and osmotic stress responses in field crops Heavy metal stress responses in field crops UV stress responses Elemental biofortification Reactive oxygen species ROS metabolism Nutraceutical and human health Computational modelling approaches for abiotic stresses in plants

in the marginal soil and water are posing important threats to the plant system Realizing the toxic effects of the metals several physiological evidences have been laid for the credence of the metal toxicity and their concurrent effect on plant productivity Increasing effects of the metals as toxicants can have three adverse effects on the populations population can move persist via local adaptation or phenotypic plasticity or die Next generation sequencing studies have revolutionized our abilities to detect the changes in expression profiles across an array of genes which can in turn help to develop early markers of metal induced stress Plant Metallomics and Functional Omics A System Wide Perspective focuses on the applications of the system wide understanding of the biological and functional interplay occurring at the juncture of the metalloid induced stress and toxicity The main goal of this book is to familiarize the readers with the most up to date information on metal induced physiological changes in plant species Medicinal and Aromatic Plants Tariq Aftab, Khalid Rehman Hakeem, 2021-03-27 Before the concept of history began humans undoubtedly acquired life benefits by discovering medicinal and aromatic plants MAPs that were food and medicine Today a variety of available herbs and spices are used and enjoyed throughout the world and continue to promote good health The international market is also guite welcoming for MAPs and essential oils The increasing environment and nature conscious buyers encourage producers to produce high quality essential oils These consumer choices lead to growing preference for organic and herbal based products in the world market As the benefits of medicinal and aromatic plants are recognized these plants will have a special role for humans in the future Until last century the production of botanicals relies to a large degree on wild collection However the increasing commercial collection largely unmonitored trade and habitat loss lead to an incomparably growing pressure on plant populations in the wild Therefore medicinal and aromatic plants are of high priority for conservation Given the above we bring forth a comprehensive volume Medicinal and Aromatic Plants Healthcare and Industrial Applications highlighting the various healthcare industrial and pharmaceutical applications that are being used on these immensely important MAPs and its future prospects This collection of chapters from the different areas dealing with MAPs caters to the need of all those who are working or have interest in the above topic Xenobiotics in Urban Ecosystems Rishikesh Singh, Pardeep Singh, Sachchidanand Tripathi, K. K. Chandra, Rahul Bhadouria, 2023-10-31 This volume provides state of the art knowledge on xenobiotics in urban ecosystems addressing a wide range of related issues such as xenobiotic types and chemical composition environmental fate remedial approaches regulatory policies and socioeconomic impacts The book incorporates theoretical and practical aspects pertaining to xenobiotics to assess their threat level in urban environments while determining appropriate responses and remediation measures to curb harmful impacts and prevent future contaminations The book will be of interest to soil scientists ecological engineers agriculturists urban policymakers students and researchers working in the field of urban agriculture and environmental sciences

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