

Sa Navy Applications 2015

**Ying Ma, Miroslav Vosatka, Christopher
Rensing, Helena Freitas**

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Salinity Responses and Tolerance in Plants, Volume 1 Vinay Kumar, Shabir Hussain Wani, Penna

Suprasanna, Lam-Son Phan Tran, 2018-04-05 Soil salinity is a key abiotic stress and poses serious threats to crop yields and quality of produce. Owing to the underlying complexity, conventional breeding programs have met with limited success. Even genetic engineering approaches via transferring overexpressing a single direct action gene per event did not yield optimal results. Nevertheless, the biotechnological advances in last decade coupled with the availability of genomic sequences of major crops and model plants have opened new vistas for understanding salinity responses and improving salinity tolerance in important glycophytic crops. Our goal is to summarize these findings for those who wish to understand and target the molecular mechanisms for producing salt tolerant and high yielding crops. Through this 2 volume book series we critically assess the potential venues for imparting salt stress tolerance to major crops in the post genomic era. Accordingly, perspectives on improving crop salinity tolerance by targeting the sensory ion transport and signaling mechanisms are presented here in volume 1. Volume 2 will focus on the potency of post genomic era tools that include RNAi, genomic intervention, genome editing and systems biology approaches for producing salt tolerant crops. **Digital Economy:**

Complexity and Variety vs. Rationality Elena G. Popkova, Bruno S. Sergi, 2019-09-14 This proceedings book features selected papers from the 9th National Scientific and Practical Conference Digital Economy Complexity and Variety Vs Rationality which took place on April 17-18, 2019 in Vladimir, Russian Federation. It presents the latest research in the field of the digital economy, discussing its role in the creation of advantages for the state, entrepreneurship and society, as well as the emergence of new economic risks. The chapters address the following topics: the importance of economy's digital modernization tools for the formation of the digital economy in Russia; specific features and perspectives of digital modernization of the regional economy; an overview of the social consequences of transition to the digital economy; financial components of the digital economy; legal challenges regarding the digital reality for society and state; and the main challenges and threats to the profession of jurisprudence in the context of the digitization of the economy. Intended for representatives of the academic community and researchers interested in the formation of the digital economy and digital society, as well as undergraduates, postgraduates and masters of economic specialties, the book is also a valuable resource for companies that use or wishing to implement digital technologies into their economic practices and public and government employees involved with monitoring, control and regulation of the digital economy. *Plant Micronutrients* Tariq Aftab, Khalid Rehman

Hakeem, 2020-08-04 Plants require essential nutrients: macronutrients and micronutrients for normal functioning. Sufficiency range is the levels of nutrients necessary to meet the plant's needs for optimal growth. This range depends on individual plant species and the particular nutrient. Nutrient levels outside of a plant's sufficiency range cause overall crop growth and health to decline due either to deficiency or toxicity from over accumulation. Apart from micronutrients B, Cl, Mn, Fe, Zn, Cu and Mo

Aluminum Al cerium Ce cobalt Co iodine I lanthanum La sodium Na selenium Se silicon Si titanium Ti and vanadium V are emerging as novel biostimulants that may enhance crop productivity and nutritional quality These beneficial elements are not essential but when supplied at low dosages they augment plant growth development and yield by stimulating specific molecular biochemical and physiological pathways in responses to challenging environments The book is the first reference volume that approaches plant micronutrient management with the latest biotechnological and omics tools Expertly curated chapters highlight working solutions as well as open problems and future challenges in plant micronutrient deficiency or toxicity We believe this book will introduce readers to state of the art developments and research trends in this field

Nanofertilizer Delivery, Effects and Application Methods Kamel A Abd-Elsalam,2024-01-13 Nanofertilizer Delivery Effects and Application Methods explores the science of nutrient nanoformulation a potential tool toward sustainable and climate sensitive crops Wide spread use of chemical fertilizers has been shown to causes significant damage to soil structure mineral cycles soil microbial flora plants and creating human health risk both immediately and for future generations Through methods that include targeted distribution and gradual or controlled release nanostructured fertilizers can improve nutrient usage efficiency According to recent studies through environmental cues and biological demands nano fertilizers can respond to specific challenges and boost agricultural yield by increasing the rate of seed germination seedling growth photosynthetic activity nitrogen metabolism and carbohydrate and protein synthesis Nanofertilizer Delivery Effects and Application Methods discusses the potential agricultural benefits of nanofertilizers from coverage of their formulation and delivery to application plant uptake translocation and destiny and their overall effect on plant physiology and metabolism This book is ideal for researchers in industry and academia Highlights types uses and advantages of a wide range and variety of nanofertilizers on agri food sectors Looks at current practices their challenges and future development opportunities Includes methods and applications for real world insights *Biostimulants for Crop Production and Sustainable Agriculture* Mirza Hasanuzzaman,Barbara Hawrylak-Nowak,Tofazzal Islam,Masayuki Fujita,2022-09-14 Agricultural biostimulants are a group of substances or microorganisms based on natural resources that are applied to plants or soils to improve nutrient uptake and plant growth and provide better tolerance to various stresses Their function is to stimulate the natural processes of plants or to enrich the soil microbiome to improve plant growth nutrition abiotic and or biotic stress tolerance yield and quality of crop plants Interest in plant biostimulants has been on the rise over the past 10 years driven by the growing interest of researchers and farmers in environmentally friendly tools for improved crop performance Improved crop production technologies are urgently needed to meet the growing demand for food for the ever increasing global population by addressing the impacts of changing climate on agriculture This book is of interest to researchers in agriculture agronomy crop and plant science soil science and environmental science Plant Hormones under Challenging Environmental Factors Golam Jalal Ahammed,Jing-Quan Yu,2016-06-17 This book presents recent advances in understanding the physiological and

molecular mechanisms of different abiotic stresses such as high or low temperature salinity drought flooding soil acidity heavy metals light stress and ozone stress and discusses the multifaceted role of phytohormones in stress adaptation and the underlying mechanisms Aimed at students and researchers in the field of plant science it offers a comprehensive overview of the versatile roles and interactions of different phytohormones in response to a specific stress factor and examines the possible physiological and molecular mechanisms that have been the subject of recent research

The Chemical Biology of Plant Biostimulants Danny Geelen, Lin Xu, 2020-04-06 Introduces readers to the chemical biology of plant biostimulants This book brings together different aspects of biostimulants providing an overview of the variety of materials exploited as biostimulants their biological activity and agricultural applications As different groups of biostimulants display different bioactivity and specificity advances in biostimulant research is illustrated by different examples of biostimulants such as humic substance seaweed extracts and substances with hormone like activities The book also reports on methods used to screen for new biostimulant compounds by exploring natural sources Combining the expertise of internationally renowned scientists and entrepreneurs in the area of biostimulants and biofertilisers The Chemical Biology of Plant Biostimulants offers in depth chapters that look at agricultural functions and action mechanisms of plant biostimulants PBs plant biostimulants from seaweed seaweed carbohydrates and the possible role for electron shuttling capacity in elicitation of PB activity of humic substances on plant growth enhancement The subject of auxins is covered next followed closely by a chapter on plant biostimulants in vermicomposts Other topics include exploring natural resources for biostimulants the impact of biostimulants on whole plant and cellular levels the impact of PBs on molecular level and the use of use of plant metabolites to mitigate stress effects in crops Provides an insightful introduction to the subject of biostimulants Discusses biostimulant modes of actions Covers microbial biostimulatory activities and biostimulant application strategies Offers unique and varied perspectives on the subject by a team of international contributors Features summaries of publications on biostimulants and biostimulant activity The Chemical Biology of Plant Biostimulants will appeal to a wide range of readers including scientists and agricultural practitioners looking for more knowledge about the development and application of biostimulants

New Frontiers in Plant-Environment Interactions Tariq Aftab, 2023-11-26 This book provides information about plant environment studies and challenges for plant improvement to achieve food security Plants face a wide range of environmental challenges which are expected to become more intense as a result of global climate change Plant environment interactions play an important role in the functioning of ecosystems There are habitats throughout the world that present challenges to crop plants such as through a lack of water and excessive or toxic salts in the soil Soil properties represent a strong selection pressure for plant diversity and influence the structure of plant communities and participate to the generation and maintenance of biodiversity Plant communities selected by environment grow by modifying soil physical chemical and biological properties with consequent effects on survival and growth of plants The complexity of plant environment

interactions has recently been studied by developing a trait based approach in which responses and effects of plants on environment were quantified and modeled This fundamental research on plant environment interaction in ecosystems is essential to transpose knowledges of functional ecology to environmental management Plants have adapted to an incredible range of environment and extensive researches on ecological and environmental plant physiology have provided mechanistic understanding of the survival distribution productivity and abundance of plant species across the diverse climates of our planet Ecophysiological techniques have greatly advanced our understanding of photosynthesis respiration plant water relations and plant responses to abiotic and biotic stresses from instantaneous to evolutionary timescales Ecophysiological studies also provide the basis for scaling plant physiological processes from the tissue to the canopy ecosystem region and to a large extent the entire globe Given the above the author proposes to bring forth a comprehensive book *New Frontiers in Plant Environment Interactions* highlighting the various emerging techniques and applications that are currently being used in plant environment interaction research and its future prospects The author is sure that this book caters the need of all those who are working or have interest in the above topic *Sustainable Utilization of Natural Resources* Prasenjit

Mondal, Ajay K. Dalai, 2017-03-16 Increased research is going on to explore the new cleaner options for the utilization of natural resources This book aims to provide the scientific knowhow and orientation in the area of the emerging technologies for utilization of natural resources for sustainable development to the readers The book includes production of energy and lifesaving drugs using natural resources as well as reduction of wastage of resources like water and energy for sustainable development in both technological as well as modeling aspects *The Plant Family Brassicaceae* Mirza Hasanuzzaman, 2020-08-18 This book provides all aspects of the physiology stress responses and tolerance to abiotic stresses of the Brassicaceae plants Different plant families have been providing food fodder fuel medicine and other basic needs for the human and animal since the ancient time Among the plant families Brassicaceae has special importance for their agricultural importance and multifarious uses apart from the basic needs Interest understanding the response of Brassicaceae plants toward abiotic stresses is growing considering the economic importance and the special adaptive mechanisms The knowledge needs to be translated into improved elite lines that can contribute to achieve food security The physiological and molecular mechanisms acting on Brassicaceae introduced in this book are useful to students and researchers working on biology physiology environmental interactions and biotechnology of Brassicaceae plants

Nanochitosan Applications for Enhanced Crop Production and Food Security Charles Oluwaseun Adetunji, Chukwuebuka Egbuna, Oluwatosin Ademola Ijabadeniyi, Samantha C. Karunarathna, 2025-03-17 This unique important and timely book provides detailed information about the application of nanochitosan to increase agricultural productivity to enhance food security and nutrition Readers will find in *Nanochitosan Applications for Enhanced Crop Production and Food Security* detailed state of the art information including The modes of action through which nanochitosan perform numerous biological

activities State of the art information and recent advancements in the application of nanochitosan including targeted delivery genetic manipulation antimicrobial uses curing infections in plants controlled delivery of biologically active constituents applications in the evaluation of carbon dioxide concentrations and humidity in controlled greenhouse environments and their use as pressure sensors in agrichemical spraying equipment Information on applying nanochitosan as a biofertilizer and bioinsecticide when applied on seeds and for foliar spraying of agricultural crops soil amendment and protection against pathogens and pests The application of nanochitosan in the manufacturing of nanosensors in precision farming in the determination of crop growth condition of soils penetration of agrochemicals diseases and the level of environmental pollution to ensure a high level of safety for plant and soil health Audience Researchers scientists and graduate students in agriculture crop science agricultural biotechnology and agricultural engineering applications of nanochitosan as well as policymakers entrepreneurs and investors in agriculture and food security

Recarbonizing global soils - A technical manual of recommended sustainable soil management Food and Agriculture Organization of the United Nations, Intergovernmental Technical Panel on Soils, 2021-09-08 During the last decades soil organic carbon SOC attracted the attention of a much wider array of specialists beyond agriculture and soil science as it was proven to be one of the most crucial components of the earth's climate system which has a great potential to be managed by humans Soils as a carbon pool are one of the key factors in several Sustainable Development Goals in particular Goal 15 Protect restore and promote sustainable use of terrestrial ecosystems sustainably manage forests combat desertification and halt and reverse land degradation and halt biodiversity loss with the SOC stock being explicitly cited in Indicator 15.3.1 This technical manual is the first attempt to gather in a standardized format the existing data on the impacts of the main soil management practices on SOC content in a wide array of environments including the advantages drawbacks and constraints This manual presents different sustainable soil management SSM practices at different scales and in different contexts supported by case studies that have been shown with quantitative data to have a positive effect on SOC stocks and successful experiences of SOC sequestration in practical field applications Volume 3 includes a total of 49 practices that have a direct impact on SOC sequestration and maintenance in cropland grassland integrated systems and farming approaches

Plant Stress Biology Bhoopander Giri, Mahaveer Prasad Sharma, 2021-02-05 Plants growing in the natural environment battle with a variety of biotic pathogens infection and abiotic salinity drought heat and cold stresses etc stresses These physiological stresses drastically affect plant growth and productivity under field conditions These challenges are likely to grow as a consequences of global climate change and pose a threat to the food security Therefore acquaintance with underlying signalling pathways physiological biochemical and molecular mechanisms in plants and the role of beneficial soil microorganisms in plant's stress tolerance are pivotal for sustainable crop production This volume written by the experts in the stress physiology and covers latest research on plant's tolerance to abiotic and biotic stresses It elaborates on the potential of plant microbe interactions

to avoid the damage caused by these stresses With comprehensive information on theoretical technical and experimental aspects of plant stress biology this extensive volume is a valuable resource for researchers academicians and students in the broad field of plant stress biology physiology microbiology environmental and agricultural science Bioformulations: for Sustainable Agriculture Naveen Kumar Arora, Samina Mehnaz, Raffaella Balestrini, 2016-06-06 More than a century has passed since the first bioformulations were introduced to the market But there is still much to be done explored and developed Though bioformulations offer green alternatives and are important for sustainable agriculture they make up only a small fraction of the total additions used to enhance crop yields or protect them from pests There is a great need to develop bioformulations that can promote confidence among end users accordingly it is imperative that bioformulations to replace chemicals be reliable and overcome the shortcomings of the past Bioformulations for Sustainable Agriculture discusses all the issues related to the current limitations and future development of bioformulations It examines in detail those bioformulations that include biofertilizers and biopesticides also commonly known as bioinoculants presenting a global picture of their development Further chapters address diverse microbes that are already being or could be used as bioformulations The book also discusses the techniques tools and other additions required to establish bioformulations as trustworthy and global solutions It assesses the types of bioformulations currently available on the market while also considering the future roles of bioformulations including the reclamation of marginal and polluted soils Further it discusses the current legislation and much needed amendments Overall the book provides a comprehensive outlook on the status quo of bioformulations and the future approaches needed to improve them and achieve sustainable agriculture and food security without sacrificing the quality of soils This will be extremely important in offering chemical free foods and a better future for generations to come Physiology of Salt Stress in Plants Pratibha Singh, Madhulika Singh, Rajiv Kumar Singh, Sheo Mohan Prasad, 2021-09-30 PHYSIOLOGY OF SALT STRESS IN PLANTS Discover how soil salinity affects plants and other organisms and the techniques used to remedy the issue In Physiology of Salt Stress in Plants an editorial team of internationally renowned researchers delivers an extensive exploration of the problem of soil salinity in modern agricultural practices It also discusses the social and environmental issues caused by salt stress The book covers the impact of salt on soil microorganisms crops and other plants and presents that information alongside examinations of salt's effects on other organisms including aquatic fauna terrestrial animals and human beings Physiology of Salt Stress in Plants describes the morphological anatomical physiological and biochemical dimensions of increasing soil salinity It also discusses potential remedies and encourages further thought and exploration of this issue Readers are encouraged to consider less hazardous fertilizers and pesticides to use safer doses and to explore and work upon salt resistant varieties of plants Readers will also benefit from the inclusion of Thorough introductions to salt stress perception and toxicity levels and the effects of salt stress on the physiology of crop plants at a cellular level Explorations of the effects of salt stress on the biochemistry of crop plants and salt ion

transporters in crop plants at a cellular level Practical discussions of salt ion and nutrient interactions in crop plants including prospective signalling and the effects of salt stress on the morphology anatomy and gene expression of crop plants An examination of salt stress on soil chemistry and the plant atmosphere continuum Perfect for researchers academics and students working and studying in the fields of agriculture botany entomology biotechnology soil science and plant physiology Physiology of Salt Stress in Plants will also earn a place on the bookshelves of agronomists crop scientists and plant biochemists

Sustainable Agriculture in Egypt Hassan Auda Awaad, 2021-09-08 This book consists of 10 Chapters in 4 Parts The first Part is an introduction and contains Chapter 1 to introduce the book chapters to the audiences The second Part consists of two chapters under the name Impact of Climate Change on Crop Production and the Physiological and Biochemical Basis for Crops Tolerance The Chapter 2 focus on critical periods of crop plants to stress conditions and the expected impacts of climate changes mainly on the productivity and quality of field crops While Chapter 3 highlights the foundations of crop tolerance to environmental stress and plant traits relevant to stress tolerance It is devoted to explain and discuss mechanisms of adaptation to environmental stress conditions and addresses various plant traits related to stress environmental tolerance i e phenological morpho physiological and biochemical traits which could be used as selection criteria for crops improvement The third Part consists of 5 Chapters under the theme Improve Crop Adaptability and Stability to Climate Change and Modern Technology Chapter 4 highlights the most important strategic food grain crop wheat Chapter 5 focuses the important staple food crop rice while Chapter 6 deals with one of the most important food legume crops faba bean Chapter 7 and 8 discuss two important oil crops sesame and sunflower However Chapter 9 focuses on cotton as one of the most important fiber crops The author addresses these crops under the following headings genotype x environment interaction and its relation to climatic change on yield production performance of genotypes in response to environmental changes adaptability and yield stability to environmental conditions additive main effects and multiplicative interaction model gene action genetic behavior and heritability for traits related to environmental stress tolerance role of recent approaches biotechnology and nanotechnology This is besides how can measure sensitivity of genotypes to environmental stress and finally the appropriate agricultural practices to mitigate environmental stress on crops under attention The book ends with Chapter No 10 where the author presents an update of the book topics present the most important conclusions and recommendations from all chapters This book has been prepared and supported by recent references and statistics with coloured tables and illustrations for audiences interested in crop science environment plant breeding genetics and biotechnology as well as postgraduate students and researchers in universities and research centres

Priming and Pretreatment of Seeds and Seedlings Mirza Hasanuzzaman, Vasileios Fotopoulos, 2019-10-15 This book introduces readers to both seed treatment and seedling pretreatments taking into account various factors such as plant age growing conditions and climate Reflecting recent advances in seed priming and pretreatment techniques it demonstrates how these approaches can

be used to improve stress tolerance and enhance crop productivity Covering the basic phenomena involved mechanisms and recent innovations the book offers a comprehensive guide for students researchers and scientists alike particularly Plant Physiologists Agronomists Environmental Scientists Biotechnologists and Botanists who will find essential information on physiology and stress tolerance The book also provides a valuable source of information for professionals at seed companies seed technologists food scientists policymakers and agricultural development officers around the world

Plant-Microbe Interaction and Stress Management Puneet Singh Chauhan, Shri Krishna Tewari, Sankalp Misra, 2024-08-31 This book provides a comprehensive view for plant microbe interactions towards stress management and microbiome assisted approaches in sustainable agriculture It is divided into four major sections The book gives insights into the increasing threat of abiotic and biotic stresses and the accompanying challenges to modern agriculture Through different chapters the book shows how various microorganisms could ameliorate abiotic and biotic stress and contribute towards food sustainability and restore ecosystem functioning It provides a deep understanding of soil microbiome and its interaction with plants to enhance food security It further talks about metagenomic approaches for methodological tool for studying the soil microbiome Separate sections on stress talk at length about the various abiotic and biotic stresses that plants are faced it The book culminates with an exciting section on microbiome assisted approaches for combating stress It talks about the different microbiomes such as rhizosphere soil phyllosphere and endophytic microbiome The book would be beneficial to students researchers and course instructors in microbiology botany plant pathology and agriculture

Advances in International Rice Research Jin Quan Li, 2017-03-15 Rice provides staple food for more than 50% of the world's population and is an important crop in the world With the new technologies such as high throughput genome sequencing and integrated omics methods applied in rice researches great advancements have been made This book was aimed to show a glance of new advancements in the international rice researches The first section of the book introduced rice cultivation and production As core sections of the book the second and third sections introduced physiological and genetic mechanisms on grain quality and biotic and abiotic stress resistance as well as breeding In the last section we introduced new technologies such as chromatin immunoprecipitation integrated omics methods and bistatic interferometry technology in rice research

Advanced Microbial Biotechnologies For Sustainable Agriculture Ying Ma, Miroslav Vosatka, Christopher Rensing, Helena Freitas, 2021-05-25

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