

H. BassiriRad (Ed.)

Nutrient Acquisition by Plants

An Ecological Perspective



Nutrient Acquisition By Plants An Ecological Perspective

Michael Seibert, Giuseppe Torzillo



Nutrient Acquisition By Plants An Ecological Perspective:

Nutrient Acquisition by Plants Hormoz BassiriRad, 2005-05-20 This is an integrated review of the mechanisms controlling plant nutrient uptake and how plants respond to changes in the environment Among key topics covered are soil nutrient bioavailability root responses to variations in nutrient supply nitrogen fixation root architecture life span mycorrhizae responses to climate change The book helps us understand the mechanisms that govern present day plant communities and to predict the response of plants to a changing climate *Nutrient Acquisition by Plants* Hormoz BassiriRad, 2005-12-30 Adaptation and evolution of terrestrial plants depend to a large extent on their ability to acquire nutrients This is a modern and integrative treatment of the mechanisms controlling plant nutrient uptake and how plants respond to changes in the environment The following key topics are covered soil nutrient bioavailability root responses to variations in nutrient supply nitrogen fixation regulation of nutrient uptake by internal plant demand root characteristics kinetics of nutrient uptake root architecture life span mycorrhizae responses to climate change This integrated view helps us to understand the mechanisms that govern present day plant communities and is indispensable in models designed to predict the response of plants to a changing climate **A Biogeoscience Approach to Ecosystems** Edward A. Johnson, Yvonne E. Martin, 2016-10-13 Integrates geoscience and ecology focusing on connections in ecological geospheric hydrospheric and atmospheric processes in ecosystems **Western North American Juniperus Communities** Oscar van Auken, 2007-12-04 In North America Juniperus woodlands occupy approximately 55 million hectares an area larger than the state of Texas Various species of Juniperus have been increasing in density and are expanding into associated grasslands reducing the size of the grasslands The reason for the Juniperus expansion is highly debated but has important implications for global change and fire regime studies Western North American Juniperus Communities addresses various aspects of the biology ecology and management of Juniperus woodlands and savannas by synthesizing past current and proposed future research The book will provide professionals with a solid background in Juniperus ecosystems enabling them to manage the communities for maximum sustained productivity and diversity Although the book focuses on Juniperus communities in North America a discussion of other regions and larger research implications is included as well **Coastal Dunes** M. L. Martínez, Norbert P. Psuty, 2007-09-14 Coastal dunes occur in almost every latitude from tropical to polar and have been substantially altered by human activities Many are already severely and irreversibly degraded Although these ecosystems have been studied for a long time as early as 1835 there has been a strong emphasis on the mid latitude dune systems and a lack of attention given to the tropics where unfortunately much of the modern exploitation and coastal development for tourism is occurring This book brings together coastal dune specialists from tropical and temperate latitudes which together cover a wide set of topics including geomorphology community dynamics ecophysiology biotic interactions and environmental problems and conservation A major product of this book is a set of recommendations for future research identifying relevant topics where

detailed knowledge is still lacking It also identifies management tools that will promote and maintain the rich diversity of the dune environments in the context of continuing coastal development *The Ecophysiology of Plant-Phosphorus Interactions* Philip J. White, John P. Hammond, 2008-06-03 Phosphorus P is an essential macronutrient for plant growth It is as phosphate that plants take up P from the soil solution Since little phosphate is available to plants in most soils plants have evolved a range of mechanisms to acquire and use P efficiently including the development of symbiotic relationships that help them access sources of phosphorus beyond the plant's own range At the same time in agricultural systems applications of inorganic phosphate fertilizers aimed at overcoming phosphate limitation are unsustainable and can cause pollution This latest volume in Springer's Plant Ecophysiology series takes an in depth look at these diverse plant phosphorus interactions in natural and agricultural environments presenting a series of critical reviews on the current status of research In particular the book presents a wealth of information on the genetic and phenotypic variation in natural plant ecosystems adapted to low P availability which could be of particular relevance to developing new crop varieties with enhanced abilities to grow under P limiting conditions The book provides a valuable reference material for graduates and research scientists working in the field of plant phosphorus interactions as well as for those working in plant breeding and sustainable agricultural development

Advances in Agronomy, 2025-04-22 *Advances in Agronomy* Volume 191 the latest release in this leading reference on agronomy contains a variety of updates and highlights new advances in the field with this volume presenting chapters on Climate smart water technologies and strategies for a resilient forage production system Principles and Application of Nitrogen Management in Precision Agriculture A Review No Till System a genuine Brazilian technology that meets current global demands Nutrient management in crop production and dynamics of soil organic carbon in the Indo Gangetic plains of South Asia A Global Review of the Impacts of Saltwater Intrusion on Soils and Ecosystems and more Other chapters cover Optimizing nitrogen use efficiency in European livestock systems From feed to plant growth and Impact of Soil Erosion on Soil Organic Carbon Loss and Its Implications for Carbon Neutrality 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

Microalgal Hydrogen Production Michael Seibert, Giuseppe Torzillo, 2018-03-19 Hydrogen could be the fuel of the future Some microorganisms can produce hydrogen upon illumination Biological methods of production could be greener than chemical or physical production methods but the potential of biological methods is still being harnessed This comprehensive book highlights the key steps necessary for future exploitation of solar light driven hydrogen production by microalgae The highly regarded editors bring together 46 contributors from key institutions in order to suggest and examine the most significant issues that must be resolved to achieve the goal of practical implementation while proposing reliable methodologies and approaches to solve such issues This 19 chapter book will be an indispensable resource for academics

undergraduate and graduate students postgraduates and postdoctoral scholars energy scientists bio chemical engineers and policy makers working across the field of biohydrogen and bioenergy

Plant-Microbe Interactions in Agro-Ecological Perspectives Dhananjaya Pratap Singh, Harikesh Bahadur Singh, Ratna Prabha, 2017-12-15 This book puts an updated

account on functional aspects of multiphasic microbial interactions within and between plants and their ecosystem

Multipronged interaction in the soil microbial communities with the plants constitute a relay of mechanisms that make profound changes in plant and its micro environment in the rhizosphere at physiological biochemical and molecular levels In agro ecological perspectives such interactions are known to recycle nutrients and regulate signalling molecules phytohormones and other small molecules that help plant growth and development Such aspects are described deeply in this book taking examples from various crop plants and microbial systems Authors described the most advantageous prospects of plant microbe interaction in terms of inoculation of beneficial microorganisms microbial inoculants with the plants in which microbes proliferate in the root rhizosphere system and benefit plants with definite functions like fixation of nitrogen solubilization and mobilization of P K Zn and production of phytohormones The subject of this book and the content presented herein has great relevance to the agro ecological sustainability of crop plants with the help of microbial interactions The chapters presented focus on defining and assessing the impact of beneficial microbial interactions on different soils crops and abiotic conditions This volume entails about exploiting beneficial microbial interactions to help plants under abiotic conditions microbe mediated induced systemic tolerance role of mycorrhizal interactions in improving plant tolerance against stresses PGPR as nutrient mobilizers phytostimulants antagonists and biocontrol agents plant interactions with Trichoderma and other bioagents for sustainable intensification in agriculture cyanobacteria as PGPRs plant microbiome for crop management and phytoremediation and rhizoremediation using microbial communities The overall content entrust advanced knowledge and applicability of diversified biotechnological techno commercial and agro ecological aspects of microbial interactions and inoculants as inputs which upon inoculation with crop plants benefit them in multiple ways

Progress in Botany Vol. 80 Francisco M. Cánovas, Ulrich Lüttge, Rainer Matyssek, Hans Pretzsch, 2019-03-14 With one volume each year this series keeps scientists and advanced students informed of the latest developments and results in all areas of the plant sciences This latest volume includes reviews on plant physiology biochemistry genetics and genomics forests and ecosystems

Food Security and Climate Change Shyam Singh Yadav, Robert J. Redden, Jerry L. Hatfield, Andreas W. Ebert, Danny Hunter, 2019-02-26 This book looks at the current state of food security and climate change discusses the issues that are affecting them and the actions required to ensure there will be enough food for the future By casting a much wider net than most previously published books to include select novel approaches techniques genes from crop diverse genetic resources or relatives it shows how agriculture may still be able to triumph over the very real threat of climate change Food Security and Climate Change integrates various challenges posed by changing climate increasing

population sustainability in crop productivity demand for food grains to sustain food security and the anticipated future need for nutritious quality foods It looks at individual factors resulting from climate change including rising carbon emission levels increasing temperature disruptions in rainfall patterns drought and their combined impact on planting environments crop adaptation production and management The role of plant genetic resources breeding technologies of crops biotechnologies and integrated farm management and agronomic good practices are included and demonstrate the significance of food grain production in achieving food security during climate change Food Security and Climate Change is an excellent book for researchers scientists students and policy makers involved in agricultural science and technology as well as those concerned with the effects of climate change on our environment and the food industry

Quantifying and Understanding Plant Nitrogen Uptake for Systems Modeling Liwang Ma, Lajpat R. Ahuja, Tom Bruulsema, 2008-08-27 Discusses New Advancements to Improve Existing Simulations of Plant Nitrogen Written by research pioneers and leading scientists in the area of agricultural systems Quantifying and Understanding Plant Nitrogen Uptake for Systems Modeling comprehensively covers plant N uptake in agricultural system models especially for building soil plant system m

Achieving sustainable crop nutrition Prof Zed Rengel, 2020-02-18 Focus on integrating research on nutrient cycling crop nutrient processing and the environmental impact of fertiliser use to identify ways of improving nutrient use efficiency NUE in the use of particular fertilisers Includes research on a range of secondary macronutrients and micronutrients including calcium magnesium zinc boron manganese and molybdenum Reviews a wide range of options for reducing optimising current levels of fertiliser use

Handbook of Plant and Crop Physiology, Third Edition Mohammad Pessarakli, 2014-03-21 Continuous discoveries in plant and crop physiology have resulted in an abundance of new information since the publication of the second edition of the Handbook of Plant and Crop Physiology necessitating a new edition to cover the latest advances in the field Like its predecessors the Third Edition offers a unique complete collection of topics in plant and crop physiology serving as an up to date resource in the field This edition contains more than 90 percent new material and the remaining 10 percent has been updated and substantially revised Divided into nine parts to make the information more accessible this handbook covers the physiology of plant and crop growth and development cellular and molecular aspects and production processes It addresses the physiological responses of plants and crops to environmental stresses heavy metals and agrichemicals presents findings on small RNAs in response to temperature stress and discusses the use of bioinformatics in plant crop physiology The book deals with the impacts of rising CO₂ levels and climate change on plant crop growth development and production It also offers guidance on plants and crops that can be successfully cultivated under more stressful conditions presented in six chapters that examine alleviation of future food security issues With contributions from 105 scientists from 17 countries this book provides a comprehensive resource for research and for university courses covering plant physiological processes ranging from the cellular level to whole plants The content provided can be used to plan implement and evaluate strategies

for dealing with plant and crop physiology problems This edition includes numerous tables figures and illustrations to facilitate comprehension of the material as well as thousands of index words to further increase accessibility to the desired information

Genomics, Functional, Evolutionary, and Ecological Perspectives on the Biology of Carnivorous Plants Magdy S. Alabady, Jim Leebens-Mack, Kenji Fukushima, Jeremy D. Rentsch, Russell L. Malmberg, 2024-12-13 Darwin was fascinated by the multitude of physiological and morphological adaptations of carnivorous plants and consequently referred to them as the most wonderful plants in the world The carnivorous behavior evolved independently at least six times in five angiosperm orders in plants that live in barren nutrient deficient environments Carnivorous plants capture insects to get access to the nitrogen and phosphorus contained in their bodies Their leaves are specialized to perform multiple functions secrete attractive scents capture insects secrete extracellular digestive enzymes absorb nutrients photosynthesize and develop symbioses Despite their independent origins there is a remarkable morphological convergence of the traps and physiological convergence of the mechanisms for digesting and assimilating prey These charismatic plants have evolved at least five major types of insect capturing mechanisms and can also be autotrophic under certain sentimental conditions These complex plants can be unique models for studying rapid organ movements excitability enzyme secretion nutrient absorption food web relationships phylogenetic and intergeneric relationships symbiosis cross species regulatory networks and convergent evolution The genomics revolution is giving us novel insights into the evolutionary history of these plants and the nature of their unique adaptations For instance the *U. gibba* genome reveals the role of small scale tandem duplications in the carnivorous adaptation a potential explanation of the evolution of carnivorous traits such as attraction trapping digestions and absorption came from the genome of *C. follicularis* and a mapping population including F1 F2 and BC and their genetic linkage map have been developed for the *Sarracenia* species To increase our functional understanding of carnivorous plants further these findings need to be related to the unique properties of their habitats and interactions among plants with insects and microbes The multiple origins and evolutionary convergence of their specific nutrient economics renders carnivorous plants most interesting study systems in functional ecology Altogether these advances are ushering a new era of understanding of plant carnivory at genomics molecular and ecological functions and evolutionary levels

Plant Ecology in a Changing World James R. Ehleringer, Russell K. Monson, 2025-06-30 Today global changes and human activities affect plants within each of the world's ecosystems *Plant Ecology in a Changing World* provides a foundation for understanding how the changes underway impact structure and function in the world's major biomes while also describing how evolution has resulted in the biochemical physiological structural and life history features that shaped plants and their capacities to persist across widely contrasting environments This textbook is designed for undergraduate students and graduate students as well to serve as a resource for climate change and ecosystem scientists seeking a foundation on the principles of plant ecology and the basis of plant adaptations While many textbooks focus primarily on natural ecosystems *Plant Ecology in a Changing*

World also recognizes the ecological importance of invasive managed and urban ecosystems and of the ways in which ecosystems are already being impacted by both human activities and a warming planet Key features Replete with 450 figures that help to elucidate concepts and charts to clearly present key data Boxes within chapters allow those who wish to delve into more advanced aspects of topics and of those key methodological approaches used to quantify processes Highlights of key plant ecologists and of their contributions Each chapter concludes with a bulleted summary enabling students to recap the key points of the chapter Each chapter comes with both a list of references as well as with suggested readings allowing the student to expand their knowledge on a particular topic Associated with the book is an array of supplementary materials These are available and constantly updated at <http://plantecology.site>

Instant Insights: Plant growth-promoting rhizobacteria Dr Dongmei Lyu, Dr Rachel Backer, Prof Donald Smith, Dr Melissa M. Larrabee, Prof Louise Nelson, Dr Markus Weinmann, Prof Günter Neumann, Dr Luca Rui, 2021-06-15 This collection features four peer reviewed literature reviews on plant growth promoting rhizobacteria in agriculture The first chapter considers the use of plant growth promoting rhizobacteria PGPR as plant biostimulants in agriculture It considers the benefits of PGPR such as their ability to promote plant growth and productivity under both normal and abiotic stressed induced environments The chapter also looks towards PGPR application as a sustainable and efficient method to enhance crop production The second chapter reviews recent research on the use of PGPR as biofertilizers to enhance root function and improve nutrient uptake with emphasis on their effects on root architecture metabolism and adaptation to abiotic stress The third chapter explores the use of microbial bio effectors and their ability to optimise the mineral nutrition of agricultural crops The chapter also reviews the wealth of research on the mechanism of action applications and efficacy of key plant growth promoting microorganisms PGPMs The final chapter reviews the use of plant growth promoting bacteria PGPB as a biocontrol agent against invertebrate pests The chapter analyses the effects of PGPB species against these pest types and enlists a case study on the PGPB species

Pseudomonas protegens to further demonstrate this Marschner's Mineral Nutrition of Higher Plants Horst Marschner, 2012 Respected and known worldwide in the field for his research in plant nutrition Dr Horst Marschner authored two editions of Mineral Nutrition of Higher Plants His research greatly advanced the understanding of plant nutrition ranging from rhizosphere processes to nutrient uptake and utilization by plants in the field While visiting field experiments in West Africa in 1996 Dr Marschner contracted malaria and passed away and until now this legacy title went unrevised Despite the passage of time it remains the definitive reference on plant mineral nutrition Since the last edition great progress has been made in the understanding of various aspects of plant nutrition In recent years the perspective on the mode of action of nutrients in plant metabolism and yield formation has shifted Much progress has been made in the molecular aspects of nutrient uptake and transport within plants as well as the responses of plants to nutrient deficiency or toxicity These and many other developments are covered in this long awaited new edition P 4 of cover

Handbook of Plant and Crop

Stress Mohammad Pessarakli, 2016-04-19 The dynamic and expanding knowledge of environmental stresses and their effects on plants and crops have resulted in the compilation of a large volume of information in the last ten years since the publication of the second edition of the Handbook of Plant and Crop Stress With 90 percent new material and a new organization that reflects this increase

Management of Microbial Resources in the Environment Abdul Malik, Elisabeth Grohmann, Madalena Alves, 2013-02-26 This volume details the exploration collection characterization evaluation and conservation of microbes for sustainable utilization in the development of the global as well as national economies e g in agriculture ecosystems environments industry and medicine Many research institutes and universities all over the world carry out microbiological and biotechnological research which generates substantial genomic resources such as cDNA libraries gene constructs promoter regions transgenes and more valuable assets for gene discovery and transgenic product development This work provides up to date information on the management of microbial resources in the environment It also covers the ecology of microorganisms in natural and engineered environments In trying to understand microbial interactions it further focuses on genomic metagenomic and molecular advances as well as on microbial diversity and phylogeny ecological studies of human animal and plant microbiology and disease microbial processes and interactions in the environment and key technological advances Though not intended to serve as an encyclopedic review of the subject the various chapters investigate both theoretical and practical aspects and provide essential basic information for future research to support continued development

This book delves into Nutrient Acquisition By Plants An Ecological Perspective. Nutrient Acquisition By Plants An Ecological Perspective is an essential topic that needs to be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Nutrient Acquisition By Plants An Ecological Perspective, encompassing both the fundamentals and more intricate discussions.

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 6. In chapter 5, this book will draw a conclusion about Nutrient Acquisition By Plants An Ecological Perspective. This chapter will summarize the key points that have been discussed throughout the book.
- The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Nutrient Acquisition By Plants An Ecological Perspective.

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