

H. BassiriRad (Ed.)

# Nutrient Acquisition by Plants

An Ecological Perspective



Springer

# **Nutrient Acquisition By Plants An Ecological Perspective**

**Dhananjaya Pratap Singh, Harikesh  
Bahadur Singh, Ratna Prabha**



## **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 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 Human Ecology Holger Schutkowski, 2006-02-28 This book explores the relationship between cultural strategies and their biological outcomes combining for the first time an ecosystems approach with cultural anthropological archaeological and evolutionary behavioural concepts Beginning with resource use and food procurement behaviour the text examines major subsistence modes the circumstances and dynamics of large scale subsistence change the effect of social differentiation on resource use

and the effects of subsistence behaviour on population development and regulation

**Geological Approaches to Coral Reef Ecology** Richard B. Aronson, 2007-03-09 This book provides a unique perspective on the destruction both natural and human caused of coral reef ecosystems Reconstructing the ecological history of coral reefs the authors evaluate whether recent dramatic changes are novel events or part of a long term trend or cycle The text combines principles of geophysics paleontology and marine sciences with real time observation examining the interacting causes of change hurricane damage predators disease rising sea level nutrient loading global warming and ocean acidification Predictions about the future of coral reefs inspire strategies for restoration and management of ecosystems Useful for students and professionals in ecology and marine biology including environmental managers

**Ecology of Harmful Algae** E. Granéli, Jefferson T. Turner, 2007-10-04 Harmful algal can cause a variety of deleterious effects including the poisoning of fish and shellfish habitat disruptions for many organisms water discoloration beach fouling and even toxic effects for humans In this volume international experts provide an in depth analysis of harmful algae topics and offer a comprehensive synthesis of the latest research in the field

**The Ecology of Browsing and Grazing** Iain J. Gordon, Herbert H.T. Prins, 2007-09-14 Extensive grazing and browsing by domestic and wild herbivores shape the vegetation composition structure and dynamics of many terrestrial ecosystems This volume investigates how large herbivores not only influence the structure and distribution of the vegetation but also affect nutrient flows and the responses of associated fauna The mechanisms and processes underlying the herbivores behaviour distribution movement and direct impact on the vegetation and the dynamics of nutrients plant species and vegetation composition in terrestrial ecosystems are discussed in detail It is shown that an understanding of plant animal interactions can provide practical advice on the management of large herbivores to integrate production and conservation in terrestrial systems particularly in the face of environmental and climate change

*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

*A Tale of Two Cedars*, 2010 From May 24 28 2010 an international symposium on western redcedar *Thuja plicata* and yellowcedar *Callitropsis nootkatensis* syn *Chamaecyparis nootkatensis* was held at the University of Victoria on Vancouver Island in British Columbia Canada The symposium was

entitled A Tale of Two Cedars and brought together local regional national and international experts to present cultural biological management and economic information on the two species Although some papers or posters focused on just one of the cedars many of the presenters covered both species and discussed the similarities and differences between them This proceedings includes abstracts or short papers from all of the formal presentations or posters presented at the symposium

General Technical Report PNW-GTR ,1987      **Tale of Two Cedars** Constance Harrington,2011-06 In 2010 an international symposium on western redcedar *Thuja plicata* and yellow cedar *Callitropsis nootkatensis* syn *Chamaecyparis nootkatensis* was held at the Univ of Victoria in British Columbia Canada The symposium brought together experts to present cultural biological management and economic information on the two species Although some papers or posters focused on just one of the cedars many of the presenters covered both species and discussed the similarities and differences between them This proceedings includes abstracts or short papers from all of the formal presentations or posters presented at the symposium Charts and tables This is a print on demand edition of an important hard to find publication      **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      **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 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 CO<sub>2</sub> 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 **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      **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      **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 Ruiu, 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      *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      **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

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