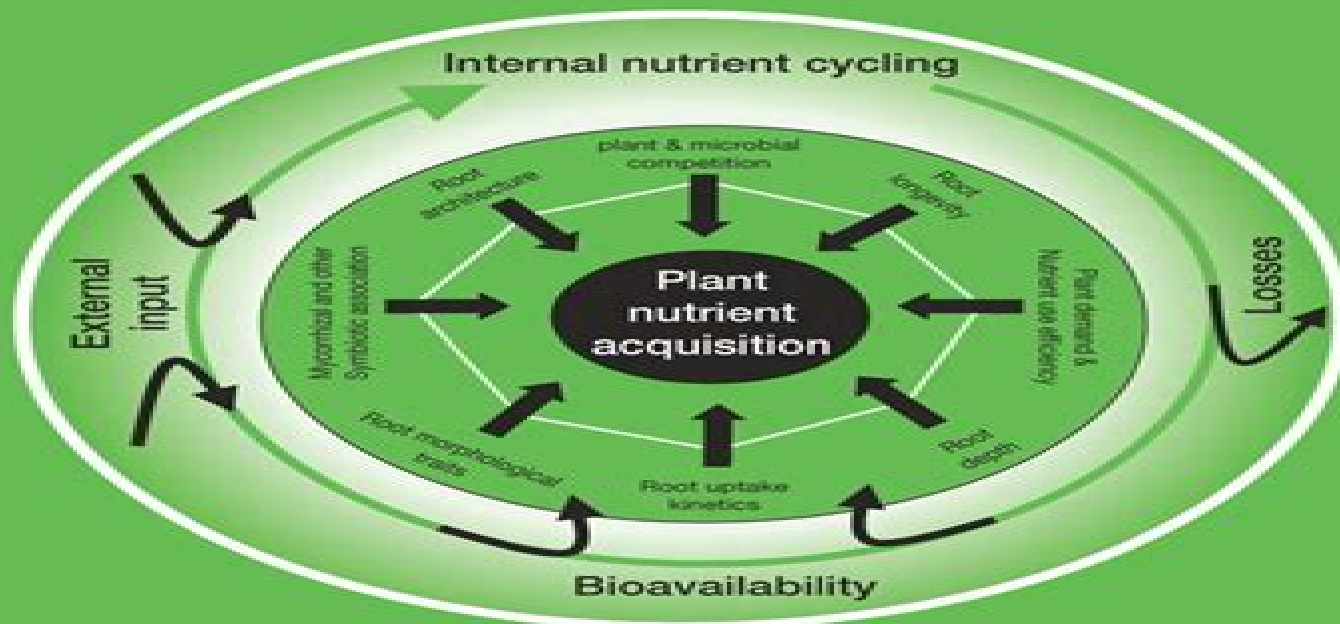


H. BassiriRad (Ed.)

Nutrient Acquisition by Plants

An Ecological Perspective



Springer

Nutrient Acquisition By Plants An Ecological Perspective

Mohammad Pessarakli



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 [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 *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

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.org>

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

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 *Modern Soil Microbiology, Second Edition* Jan Dirk van Elsas, Janet K. Jansson, Jack T. Trevors, 2006-12-21 In the ten years since the publication of *Modern Soil Microbiology* the study of soil microbiology has significantly changed both in the understanding of the diversity and function of soil microbial communities and in research methods Ideal for students in a variety of disciplines this second edition provides a cutting edge examination of a fascinating discipline that encompasses ecology physiology genetics molecular biology and biotechnology and makes use of biochemical and biophysical approaches The chapters cover topics ranging from the fundamental to the applied and describe the use of advanced methods that have provided a great thrust to the discipline of soil microbiology Using the latest molecular analyses they integrate principles of soil microbiology with novel insights into the physiology of soil microorganisms The authors discuss the soil and rhizosphere as habitats for microorganisms then go on to describe the different microbial groups their adaptive responses and their respective processes in interactive and functional terms The book highlights a range of applied aspects of soil microbiology including the nature of disease suppressive soils the use of biological control agents biopesticides and bioremediation agents and the need for correct statistics and experimentation in the analyses of the data obtained from soil systems

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