

Radical Biology: Advances and Perspectives on the Function of Plant Roots

Radical Biology Advances Perspectives On The Function Of Plant Roots

**Hector E. Flores,Jonathan P.
Lynch,David Eissenstat**



Radical Biology Advances Perspectives On The Function Of Plant Roots:

Radical Biology Hector E. Flores, Jonathan P. Lynch, David Eissenstat, 1998 **Radical Biology: Advances and Perspectives on the Function of Plant Roots** Hector E. Flores, 1998 *Root Physiology: from Gene to Function* Hans Lambers, Timothy D. Colmer, 2006-02-03

In the last decade enormous progress has been made on the physiology of plant roots including on a wide range of molecular aspects. Much of that progress has been captured in the chapters of this book. Breakthroughs have been made possible through integration of molecular and whole plant aspects. The classical boundaries between physiology, biochemistry and molecular biology have vanished. There has been a strong focus on a limited number of model species including *Arabidopsis thaliana*. That focus has allowed greater insight into the significance of specific genes for plant development and functioning. However many species are very different from *A. thaliana* in that they are mycorrhizal, develop a symbiosis with N₂ fixing microsymbionts or have other specialised root structures. Also some have a much greater capacity to resist extreme environments such as soil acidity, salinity, flooding or heavy metal toxicities due to specific adaptations. Research on species other than *A. thaliana* is therefore pivotal to develop new knowledge in plant sciences in a comprehensive manner. This fundamental new knowledge can be the basis for important applications in e.g. agriculture and plant conservation. Although significant progress has been made much remains to be learnt. It is envisaged that discoveries made in the recent past will likely lead to major breakthroughs in the next decade.

Advances in Botanical Research, 1999-09-01

Advances in Botanical Research is a multi volume publication that brings together reviews by recognized experts on subjects of importance to those involved in botanical research. For more than thirty years *Advances in Botanical Research* has earned a reputation for excellence in the field. Academic Press has merged *Advances in Plant Pathology* into *Advances in Botanical Research*. The plant science community will find that the merger of these two serials will provide one comprehensive resource for the field. To ensure complete coverage John Andrews and Inez Tommerup the editors of *Advances in Plant Pathology* have joined the editorial board of the new series which will include equal coverage of plant pathology and botany in both thematic and mixed volumes. The first few volumes of the new series will be slanted toward botany or plant pathology however future eclectic volumes will be fully integrated. The resulting synergy of these two serials greatly benefits the plant science community by providing a more comprehensive resource under one roof. The joint aim is to continue to include the very best articles thereby maintaining the status of a high impact factor review series.

Advances In Plant Physiology (From The Green To The Grain) Seshadri Kannan, 2007

If one may recall nearly half a century ago there were small books Methuen series publishing on special subjects like photosynthesis C. P. Whittingham and Plant Respiration W. Stiles in the 1950s and have been of great guidance for post graduate studies in those years. Now great breakthroughs have been made with the introduction of isotopes, modern tools and instruments which can project into the cell components and unravel the secrets of plant life with the results no one book could so completely cover a single topic like photosynthesis or

respiration **Advances in Plant Physiology (Vol. 7)** A. Hemantaranjan, 2005-07-01 The publication of Volume 7 of the International Treatise Series on Advances in Plant Physiology has been feasible exclusively and unquestionably due to commendable contributions from World Scientists of distinction in explicit fields within eight years the treatise series has been instituted in the spirits and compassion of illustrious readers all through the world The proficient International and National Coordinators have all along unified their views for the expediency of readers assisting them to speed up important research work in the field of Plant and Crop Physiology Biochemistry Plant Molecular Biology in spite of handiness of quick accessibility of vast literature from internet this treatise series in the field of life sciences has been realized over and above to be like a true guide friend and philosopher everlastingly enlightening the most hidden perceptible nerves of an individual worker which is beyond the competence of mere web services The volume 8 is absolutely another one of its kinds for incorporation of most timely and important worthy reviews of diverse objectives contributed by forty four well informed admirable and documented scientists stalwarts of which twenty three participated from abroad The original writing coming in bounteous journals of international repute covering new technologies and tools in plant science research have been pulled together in affirmative prolific and supportive manner by specialists all over the globe In this volume efforts have been made to fetch together twenty one indispensable review articles duly evaluated by the respective Consulting Editors of international stature from India U K U S A Argentina Australia France Germany Japan Spain Portugal Israel and Morocco and rationally distributed in eight sections Indeed the treatise is wealth for interdisciplinary exchange of information Apart from fulfilling need of this kind of exclusive edition in different volumes for research teams in Molecular Plant Physiology and Biochemistry in traditional and agricultural universities institutes and research laboratories throughout the world it would be extremely a constructive book and a voluminous reference material for acquiring advanced knowledge by post graduate and Ph D scholars in response to the innovative courses in Plant Physiology Plant Biochemistry Plant Molecular Biology Plant Biotechnology Environmental Sciences Plant Pathology Microbiology Soil Science Agricultural Chemistry Agronomy Horticulture and Botany **Plant Roots** Amram Eshel, Tom Beeckman, 2013-04-17 The decade since the publication of the third edition of this volume has been an era of great progress in biology in general and the plant sciences in particular This is especially true with the advancements brought on by the sequencing of whole genomes of model organisms and the development of omics techniques This fourth edition of Plant Roots The Hidden Half reflects these developments that have transformed not only the field of biology but also the many facets of root science Highlights of this new edition include The basics of root research and their evolution and role in the global context of soil development and atmosphere composition New understandings about roots gained in the post genomic era for example how the development of roots became possible and the genetic basis required for this to occur The mechanisms that determine root structure with chapters on cellular patterning lateral root and vascular development the molecular basis of adventitious roots and other topics Plant hormone

action and signaling pathways that control root development including new chapters on strigolactones and brassinosteroids Soil resource acquisition from agricultural and ecological perspectives Root response to stress with chapters that address the impact of the genomic revolution on this topic Root rhizosphere interactions from beneficial microorganisms to detrimental nematodes Modern research techniques for the field and the lab Each chapter not only presents a clear summation of the topic under discussion but also includes a vision of what is to be expected in the years to come The wide coverage of themes in this volume continues the tradition that makes this work recognized as a fundamental source of information for root scientists at all levels **Radical Biology** Héctor E. Flores,Jonathan P. Lynch,David Eissenstat,1977 Root Engineering

Asunción Morte,Ajit Varma,2014-04-12 This volume illustrates the complex root system including the various essential roles of roots as well as their interaction with diverse microorganisms localized in or near the root system Following initial chapters describing the anatomy and architecture as well as the growth and development of root systems subsequent chapters focus on the various types of root symbiosis with bacteria and fungi in the rhizosphere A third section covers the physiological strategies of roots such as nitrate assimilation aquaporins the role of roots in plant defense responses and in response to droughts and salinity changes The book s final chapters discuss the prospects of applied engineering of roots i e inventing new root structures or functions through genetic modification but also with conventional breeding and manipulation of root symbionts The budding field of root engineering is expected to promote a second green revolution

Frontiers of Forest Biology A K Mitchell,Pasi Puttonen,M Stoehr,Barbara J Hawkins,2021-05-30 Discover new approaches to promote a viable forest industry while protecting non timber values Frontiers of Forest Biology Proceedings of the 1998 Joint Meeting of the North American Forest Biology Workshop and the Western Forest Genetics Association gives you significant new insights on current initiatives in forest biology Because the field is changing rapidly you need to keep aware of current trends as the emphasis in forest research shifts from productivity based goals to sustainable development of forest resources In this volume you will find a comprehensive summary of the state of the art of forest science in North America Whether your focus is on genetics or on the environmental aspects of forest science plant physiology or silviculture you will find helpful chapters by practitioners as well as cutting edge research by scientists This integrated approach is unique in the field Based on the 1998 Joint Meeting of the North American Forest Biology Workshop and the Western Forest Genetics Association Frontiers of Forest Biology addresses changing priorities in forest resource management This important book contains fascinating research studies complete with tables and diagrams on topics such as biodiversity research the productivity of commercial species conserving adaptive variation in forest ecosystems and the effect of harvesting trees on nutrient leaching The book maps the frontiers of this fast changing science with chapters on the social biological and industrial context of forest biology new directions for research into genetics physiology plant silviculture and conservation the impact of genetics on sustainable forestry the effects of cold and disease on plant physiology regeneration of various

species after logging new species adapted for agroforestry the impact and management of exotic weeds *Frontiers of Forest Biology* offers solid information on a broad spectrum of topics and suggests fresh avenues for your investigations in all aspects of forest biology Physiology of Stressed Crops, Vol. 1 U S Gupta, 2019-10-24 The present multi volume treatise has been planned to discuss important aspects of the crop plant physiological aspects viz hormones nutrients cell membranes and induced proteins as related to different types of stresses each in separate volumes Another type of stress which can be classed under biotic environmental sil or chemical viz the stress of allelochemicals which has not been discussed before as a stress factor will be discussed in a separate volume emphasizing its practical applied aspects rather than mentioning only the allelopathic effects In this volume on Hormone Relations different stresses have been arranged in order of their importance and work done **Root Methods** A.L. Smit, A.G. Bengough, C. Engels, M. van Noordwijk, S. Pellerin, S.C. van de Geijn, 2013-03-09 Why a New Handbook on Root Methods Uptake of water and nutrients is a key process in agricultural and natural ecosystems Plant roots play a vital role in the supply of resources for growth and yet we have a relatively poor understanding of how they function in the natural soil environment Dr B6hm began the Preface of his standard text on root research methods B6hm 1979 with the comment Root research under natural yield conditions is a step child of science The reason for this is primarily methodological The known methods are tedious time consuming and the accuracy of their results is of ten not very great Although improvements have been made recently for some methods working on roots is stiH tedious and time consuming Compared to some other disciplines a root researcher requires a considerable budget for his or her work It is for this reason that in root research careful planning the choice of appropriate methods and also a clear idea of which root characteristic should be observed in relation to the goal of the research question are fundamental Consequently it is recommended to make use of root experience developed elsewhere as much as possible **Phosphorus in Plant Biology** Jonathan P. Lynch, Jill Deikman, 1999 **Plant Roots** Yoav Waisel, Amram Eshel, Tom Beeckman, Uzi Kafkafi, 2002-03-29 The third edition of a standard resource this book offers a state of the art multi disciplinary presentation of plant roots It examines structure and development assemblage of root systems metabolism and growth stressful environments and interactions at the rhizosphere Reflecting the explosion of advances and emerging technologies in the field the book presents developments in the study of root origin composition formation and behavior for the production of novel pharmaceutical and medicinal compounds agrochemicals dyes flavors and pesticides It details breakthroughs in genetics molecular biology growth substance physiology biotechnology and biomechanics *Plant Mitochondria: From Genome to Function* David Day, A. Harvey Millar, James Whelan, 2013-11-09 Mitochondria in plants as in other eukaryotes play an essential role in the cell as the major producers of ATP via oxidative phosphorylation However mitochondria also play crucial roles in many other aspects of plant development and performance and possess an array of unique properties which allow them to interact with the specialized features of plant cell metabolism The two main themes running through the book are

the interconnection between gene regulation and protein function and the integration of mitochondria with other components of plant cells The book begins with an overview of the dynamics of mitochondrial structure morphology and inheritance It then discusses the biogenesis of mitochondria the regulation of gene expression the mitochondrial genome and its interaction with the nucleus and the targeting of proteins to the organelle This is followed by a discussion of the contributions that mutations involving mitochondrial proteins have made to our understanding of the way the organelle interacts with the rest of the plant cell and the new field of proteomics and the discovery of new functions Also covered are the pathways of electron transport with special attention to the non phosphorylating bypasses metabolite transport and specialized mitochondrial metabolism In the end the impact of oxidative stress on mitochondria and the defense mechanisms that are employed to allow survival are discussed This book is for the use of advanced undergraduates graduates postgraduates and beginning researchers in the areas of molecular and cellular biology integrative biology biochemistry bioenergetics proteomics and plant and agricultural sciences **Functional Plant Ecology** Francisco Pugnaire,Fernando Valladares,2007-06-20

Following in the footsteps of the successful first edition Functional Plant Ecology Second Edition remains the most authoritative resource in this multidisciplinary field Extensively revised and updated this book investigates plant structure and behavior across the ecological spectrum It features the ecology and evolution of plant crowns and a **Measuring Roots** Stefano Mancuso,2011-10-26 Roots represent half of the plant body and arguably the more interesting half Despite its obvious importance for the whole plant until recently our knowledge of the root apparatus was very limited mostly due to the inadequacy of the techniques available Recent advances in the visualization and measurement of roots have resulted in significant progress in our understanding of root architecture growth and behaviour In this book international experts highlight the most advanced techniques both lab and field methods and discuss them in detail Measuring Roots combines academic and practical aspects of this topic making it a universal handbook for all researchers and others interested in root measuring methods **Handbook of Soil Sciences (Two Volume Set)** Pan Ming Huang,Yuncong Li,Malcolm E.

Sumner,2018-10-03 An evolving living organic inorganic covering soil is in dynamic equilibrium with the atmosphere above the biosphere within and the geology below It acts as an anchor for roots a purveyor of water and nutrients a residence for a vast community of microorganisms and animals a sanitizer of the environment and a source of raw materials for co

Handbook of Soil Sciences Pan Ming Huang,Yuncong Li,Malcolm E. Sumner,2011-11-17 An evolving living organic inorganic covering soil is in dynamic equilibrium with the atmosphere above the biosphere within and the geology below It acts as an anchor for roots a purveyor of water and nutrients a residence for a vast community of microorganisms and animals a sanitizer of the environment and a source of raw materials for construction and manufacturing To develop lasting solutions to the challenges of balanced use and stewardship of the Earth we require a fundamental understanding of soil from its elastic porous three phase system to its components processes and reactions Handbook of Soil Sciences Resource

Management and Environmental Impacts Second Edition is the second of two volumes that form a comprehensive reference on the discipline of soil science Completely revised and updated to reflect the current state of knowledge this volume covers interfacial interactions between the physical chemical and biological regimes within the soil the factors that control the availability of plant nutrients and microelements interdisciplinary aspects of soil science including salinity sodicity and soil erosion and soil databases for assessing worldwide soil resources Critical elements addressed in each section include Descriptions of concepts and theories Definitions approaches methodologies and procedures Data in tabular and figure format Extensive references This cohesive handbook provides a thorough understanding of soil science principles and practices based on a rigorous complete and up to date treatment of the subject matter compiled by leading scientists It is a resource rich in data offering professional soil scientists agronomists engineers ecologists biologists naturalists and students their first point of entry into a particular aspect of the soil sciences *Marschner's Mineral Nutrition of Plants* Zed Rengel, Ismail Cakmak, Philip John White, 2022-12-09 An understanding of the mineral nutrition of plants is of fundamental importance in both basic and applied plant sciences The fourth edition of this book retains the aim of the first in presenting the principles of mineral nutrition in the light of current advances Marschner's Mineral Nutrition of Plants 4th Edition is divided into two parts Nutritional Physiology and Plant Soil Relationships In Part I emphasis is put on uptake and transport of nutrients in plants root shoot interactions role of mineral nutrition in yield formation stress physiology water relations functions of mineral nutrients and contribution of plant nutrition to food nutritional quality disease tolerance and global nutritional security of human populations In view of the increasing interest in plant soil interactions Part II focuses on the effects of external and internal factors on root growth rhizosphere chemistry and biology soil borne ion toxicities and nutrient cycling Now with color figures throughout this book continues to be a valuable reference for plant and soil scientists and undergraduate and graduate students in the fields of plant nutrition nutritional physiology and soil fertility Offers new content on the relationship between climate change soil fertility and crop nutrition Keeps overall structure of previous editions Includes updates in every chapter on new developments ideas and challenges

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