



# Root Physiology

**Timothy White, Antonello Provenzale**



## **Root Physiology:**

**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 N<sub>2</sub> 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

Methods of Studying Root Systems W. Böhm, 2012-12-06 Root research under natural field conditions is still 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 often not very great Many research workers have been discouraged by doing such root studies The need for more information on the development and distribution of plant roots in different soils under various ecological conditions is however obvious in many ecological disciplines Especially the applied botanical sciences such as agriculture horticulture and forestry are interested in obtaining more data on plant roots in the soil This book will give a survey of existing methods in ecological root research Primarily field methods are presented techniques for pot experiments are described only so far as they are important for solving ecological problems Laboratory methods for studying root physiology are not covered in this book Scientific publications on roots are scattered in many different journals published all over the world By working through the international root literature I found that about ten thousand papers on root ecology have been published at the present This is not very much compared with the immense literature on the aboveground parts of the plants but is however too much to cite in this book

**Physiology of the Plant Root System** Jozef Kolek, Vladimír Kozinka, 1992

Root Genomics and Soil Interactions Martin Crespi, 2012-12-26 Fully integrated and comprehensive in its coverage Root Genomics and Soil Interactions examines the use of genome based technologies to understand root development and adaptability to biotic and abiotic stresses and changes in the soil environment Written by an international team of experts in the field this timely review highlights both model organisms and important agronomic crops Coverage includes novel areas unveiled by genomics research basic root biology and genomic approaches applied to analysis of root responses to the soil

environment Each chapter provides a succinct yet thorough review of research *Proceedings RMRS. ,1998 National Proceedings ,2003 Plant Roots and Their Environment* B.L. McMichael,H. Persson,2012-12-02 Scientists within a wide field ranging from applied forestry and agriculture to physiology ecology and the environmental sciences are today more than ever involved in root and mycorrhizal research New problem oriented research fields have arisen such as the effects of fertilizers and pesticides forest management and regeneration etc At a time when root research is expanding into different areas it is much more difficult for the root scientist to penetrate all the new information appearing in literature The contributors of this volume are leading scientists from different fields of root research The ISRR symposium in Uppsala clearly demonstrated that there are new techniques in progress in particular with regards to video recording of plant root systems and digital image processing The main objectives of the symposium were i to provide a forum for communication between scientists from different disciplines working with root research problems ii to contribute to an expansion of root studies into new areas iii to use current estimates of root turnover for charting the upper and lower limit of below ground production and iv to spread knowledge of new findings and techniques of the importance of root research This book is aimed at serving as a vehicle for improving the coherence of root research for harmonizing methods and establishing overall objectives and gaps in the knowledge of rhizosphere dynamics Recent Advances of Plant Root Structure and Function Otília Gasparíková,Milada Ciamporová,Igor Mistřík,F. Baluska,2013-03-09 This book provides a comprehensive and interactive view of recent advances in the cytology anatomy and physiology of roots as presented at the 5th International Symposium on Structure and Function of Roots held on 31 August 4 September 1998 in Star Lesn Slovakia This edition differs from previous ones by including some aspects of functional genetics and plant morphogenesis The book is intended to serve both students and researchers as a valuable source of updated information ideas and concepts dealing with the most fundamental questions of development and function of plant roots **Interactions Between Non-Pathogenic Soil Microorganisms And Plants** Y.R. Dommergues,2012-12-02 Interactions between Non Pathogenic Soil Microorganisms and Plants provides a comprehensive discussion of the non pathogenic microorganisms associated with roots It describes how a myriad of soil microorganisms affect plant growth and how climatic and edaphic conditions contribute to the magnitude of microbial activity The book is divided into 11 chapters that cover the plant microorganism system growth structure and physiology of roots and nutrient uptake It also explains the root exudates and exudation energy flow in the plant and rhizosphere Legume symbiosis and root nodule symbioses in non leguminous nitrogen fixing plants are also discussed Moreover the book explains the mycorrhizae and the impact of climatic and edaphic conditions on soil management and plant growth The information that the book presents serves as a useful focal point for further studies on the interactions between plants and soil microorganisms Thus it provides an impetus for the development of agricultural practices that could improve food production while mitigating anthropogenic pollution of agrosystems and waste of energy resources Students lecturers

and research workers in plant physiology and anatomy microbiology soil science general ecology and agronomy will find this book an invaluable reference for their learning and practice

**Critical Zone and Ecosystem Dynamics** Timothy White,Antonello Provenza,2024-11-28 The critical zone is the thin outer veneer of continental Earth extending from the top of the vegetation canopy to subsurface depths where fresh groundwater circulates It is the heterogeneous amalgamation of landscapes ecosystems and subsurface environments The concept of the critical zone is relatively new and while thousands of manuscripts have been published from this interdisciplinary field they exist within a wide array of journals and none have comprehensively addressed the intersection between the geosciences and ecosystem science where rock meets life The goal of this contributed book is to promote the great potential that exists in a merger of critical zone and ecosystem science to further scientific discovery by leveraging the strengths of multiple disciplines to address societally relevant questions keep pace with scientific advances and more effectively engage with broader scientific communities and the public The core readership will be collaborative researchers working at the intersection between the greater Earth environmental and ecological sciences and policy and business sectors that draw on science evidence to support sustainable economic development The book also serves further readership that includes scientists from many fields particularly those in early and mid career stages who are interested in environmental sustainability and are seeking to step out from disciplinary research into collaborative cross disciplinary study

**Root Methods** A.L. Smit,A.G. Bengough,C. Engels,M. van Noordwijk,S. Pellerin,S.C. van de Geijn,2000-07-26 A comprehensive review of all modern methods for plant root research both in the field and in the laboratory It covers the effects of environmental interactions with root growth and function focussing in particular on the assessment of root distribution and dynamics It also describes and discusses the processing of root observations analysis and modelling of root growth and architecture root image analysis computer assisted tomography and magnetic resonance imaging Furthermore a survey of the application of isotope techniques in root physiology is given

*Sorghum in the 21st Century: Food - Fodder - Feed - Fuel for a Rapidly Changing World* Vilas A. Tonapi,Harvinder Singh Talwar,Ashok Kumar Are,B. Venkatesh Bhat,Ch. Ravinder Reddy,Timothy J. Dalton,2021-01-04 Sorghum is the most important cereal crop grown in the semi arid tropics SAT of Africa Asia Australia and Americas for food feed fodder and fuel It is the fifth most important cereal crop globally after rice wheat maize and barley and plays a major role in global food security Sorghum is consumed in different forms for various end uses Its grain is mostly used directly for food purposes After the release of the proceedings of two international symposia in the form of books Sorghum in Seventies and Sorghum in Eighties global sorghum research and development have not been documented at one place Of course few books on sorghum have been released that focus on specific issues research areas but comprehensive review of all aspects of recent development in different areas of sorghum science has not been compiled in the form a single book This book is intended to fill in a void to bridge the gap by documenting all aspects of recent research and development in sorghum encompassing all the progress

made milestones achieved across globe in genetic diversity assessment crop improvement and production strategies for high yield biotic and abiotic stress resistance grain and stover quality aspects storage nutrition health and industrial applications biotechnological applications to increase production including regional and global policy perspectives and developmental needs This book will be an institutional effort to compile all the latest information generated in research and development in sorghum across the globe at one place Dynamics of Physiological Processes in Woody Roots Mary Ann Topa,1995

**Biology of Populus and Its Implications for Management and Conservation** National Research Council Canada,1996 Poplar is increasingly recognized as an excellent model tree for the study of tree growth and its underlying physiology and genetics By studying trees of the genus Populus poplars cottonwoods aspens which in their native ecosystems play a major role in the re colonization of sites after disturbances new insights have been gained into plantation culture and the development of improved cultivars Of the 20 chapters in this publication edited by an international group of researchers one section deals with systematics genetics genetic manipulation and biotic interactions of Populus while the other deals with stress response and the physiology of growth and productivity **The Plant World** ,1909 *Plant Roots* Peter J. Gregory,2008-04-15 The root system is a vital part of the plant and therefore understanding roots and their functioning is key to agricultural plant and soil scientists In Plant Roots Professor Peter Gregory brings together recent developments in techniques and an improved understanding of plant and soil interactions to present a comprehensive look at this important relationship covering Root response to and modification of soils Genetic control of roots responses to the environment Use of modern techniques in imaging molecular biology and analytical chemistry Practical exploitation of root characters This book will be a vital tool for plant crop soil and agricultural scientists plant physiologists environmental scientists ecologists and hydrologists It will be a valuable addition to libraries in universities agricultural colleges and research establishments where these subjects are studied and taught **Progress in Botany** 77 Ulrich Lüttge,Francisco M. Cánovas,Rainer Matyssek,2016-05-27 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 The present volume includes reviews on plant genetics physiology ecology and evolution **Physiological and Molecular Aspects of Plant Rootstock-Scion**

**Interactions** Rosario Paolo Mauro,Francisco Perez-Alfocea,Sarah Jane Cookson,Nathalie Ollat,Alessandro Vitale,2022-02-11

**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      Handbook of Plant Science, 2 Volume Set Keith Roberts, 2007-12-10 Plant Science like the biological sciences in general has undergone seismic shifts in the last thirty or so years. Of course science is always changing and metamorphosing but these shifts have meant that modern plant science has moved away from its previous more agricultural and botanical context to become a core biological discipline in its own right. However the sheer amount of information that is accumulating about plant science and the difficulty of grasping it all understanding it and evaluating it intelligently has never been harder for the new generation of plant scientists or for that matter established scientists. And that is precisely why this Handbook of Plant Science has been put together. Discover modern molecular plant sciences as they link traditional disciplines. Derived from the acclaimed Encyclopedia of Life Sciences. Thorough reference of up to the minute reliable self contained peer reviewed articles cross referenced throughout. Contains 255 articles and 48 full colour pages written by top scientists in each field. The Handbook of Plant Science is an authoritative source of up to date practical information for all teachers students and researchers working in the field of plant science botany plant biotechnology agriculture and horticulture.

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