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Wolfgang Oßwald · Dieter Ernst
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Hans Pretzsch *Editors*

Growth and Defence in Plants

Resource Allocation at Multiple Scales

Growth And Defence In Plants Resource Allocation At Multiple Scales Ecological Studies

AW Rasmussen



Growth And Defence In Plants Resource Allocation At Multiple Scales Ecological Studies:

Growth and Defence in Plants Rainer Matyssek, Hans Schnyder, Wolfgang Oßwald, Dieter Ernst, Jean Charles Munch, Hans Pretzsch, 2012-09-15 This volume gathers a timely understanding of resource allocation and its regulation in herbaceous and woody plant systems linking molecular with biochemical and physiological process levels Emergence and Modularity in Life Sciences Lars H. Wegner, Ulrich Lüttge, 2019-02-12 This book focuses on modules and emergence with self organization in the life sciences As Aristotle observed so long ago the whole is more than the sum of its parts However contemporary science is dominated by reductionist concepts and tends to neglect the non reproducible features of complex systems which emerge from the interaction of the smaller units they are composed of The book is divided into three major parts the essays in part A highlight the conceptual basis of emergence linking it to the philosophy of science systems biology and sustainability This is subsequently exemplified in part B by applying the concept of emergence to various biological disciplines such as genetics developmental biology neurobiology plant physiology and ecology New aspects of emergence come into play when biology meets the technical sciences as revealed in a chapter on bionics In turn part C adopts a broader view revealing how the organization of life follows a hierarchical order in terms of scalar dimensions ranging from the molecular level to the entire biosphere The idea that life is primarily and exclusively shaped by processes at the molecular level and in particular by the information encoded in the genome is refuted rather there is no hierarchy with respect to the level of causation in the cross talk between the levels In the last two chapters the evolutionary trend toward ever increasing complexity in living systems is interpreted in terms of the Gaia hypothesis sensu Lovelock the entire biosphere is viewed as a functional unit or holobiont like system organized to develop and sustain life on Earth *Climate Change, Air Pollution and Global Challenges*, 2013-11-19 There are significant pressures from climate change and air pollution that forests currently face This book aims to increase understanding of the state and potential of forest ecosystems to mitigate and adapt to climate change in a polluted environment It reconciles process oriented research long term monitoring and applied modeling through comprehensive forest ecosystem research Furthermore it introduces forest super sites for research for integrating soil plant and atmospheric sciences and monitoring It also provides mechanistic and policy oriented modeling with scientifically sound risk indications regarding atmospheric changes and ecosystem services Identifies current knowledge gaps and emerging research needs Highlights novel methodologies and integrated research concepts Assesses ecological meaning of investigations and prioritizing research need Climate Change, Air Pollution and Global Challenges Pierre Dizengremel, Yves Jolivet, Andrée Tuzet, Annamaria Ranieri, Didier Le Thiec, 2013-11-19 Ozone is a phytotoxic air pollutant impairing photosynthesis and reducing plant growth The predicted increase in tropospheric ozone concentration could lead to an increased vulnerability of forests mitigating carbon sink strength of vegetation under the increasing atmospheric CO₂ concentration To improve European risk indices currently based on atmospheric O₃ concentration i.e. O₃ exposure it is

necessary to assess the phytotoxic ozone dose reflecting the balance between stomatal ozone uptake and detoxification capacity of foliar cells Advancing knowledge on plant response mechanisms would allow for integrating a sub model into global ozone impact prediction models towards consolidating process based indices for risk assessment Crucial parameters are i stomatal characteristics ii constitutive detoxification potential iii capacity for antioxidant regeneration and iv cellular redox power The combination of ozone with other impacting factors drought high temperature and CO₂ will be discussed in view of the challenge of scaling tree level ozone responses to the forest ecosystem level under conditions of climate change

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

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Progress in Botany Vol. 84 Ulrich Lüttge, Francisco M. Cánovas, María-Carmen Risueño, Christoph Leuschner, Hans Pretzsch, 2024-01-01 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

Climate Change, Air Pollution and Global Challenges Rainer Matyssek, Nicholas Clarke, Pavel Cudlin, Teis Nørgaard Mikkelsen, Juha-Pekka Tuovinen, Gerhard Wieser, Elena Paoletti, 2013-11-19 This chapter outlines the aims and scope of the book An introduction is given to the current status of knowledge which is presented on the topic of the book Arguments are presented for writing the book in view of continued long term and process based research needed for mitigating ecological and socio economic risks to forests under global change The book will conclude on suggestions for decision making and reasons for continued funding of related research

Ecosystem Services, Biodiversity and Environmental Change in a Tropical Mountain Ecosystem of South Ecuador Jörg Bendix, Erwin Beck, Achim Bräuning, Franz Makeschin, Reinhard Mosandl, Stefan Scheu, Wolfgang Wilcke, 2013-07-09 An interdisciplinary research unit consisting of 30 teams in the natural economic and social sciences analyzed biodiversity and ecosystem services of a mountain rainforest ecosystem in the hotspot of the tropical Andes with special reference to past current and future environmental changes The group assessed ecosystem services using data from ecological field and scenario driven model experiments and with the help of comparative field surveys of the natural forest and its anthropogenic replacement system for agriculture The book offers insights into the impacts of environmental change on various service categories mentioned in the Millennium Ecosystem Assessment 2005 cultural regulating supporting and provisioning ecosystem services Examples focus on biodiversity of plants and animals including trophic networks and abiotic biotic parameters such as soils regional climate water nutrient and sediment cycles The types of threats considered include

land use and climate changes as well as atmospheric fertilization In terms of regulating and provisioning services the emphasis is primarily on water regulation and supply as well as climate regulation and carbon sequestration With regard to provisioning services the synthesis of the book provides science based recommendations for a sustainable land use portfolio including several options such as forestry pasture management and the practices of indigenous peoples In closing the authors show how they integrated the local society by pursuing capacity building in compliance with the CBD ABS Convention on Biological Diversity Access and Benefit Sharing in the form of education and knowledge transfer for application

Ecophysiology of root systems-environment interaction Boris Rewald,Omer Falik,Douglas Godbold,Shimon Rachmilevitch,2014-09-03 There is a scarcity of detailed information regarding the ecophysiology of root systems and the way root system functioning is affected by both internal and external factors Furthermore global climate change is expected to increase the intensity of climate extremes such as severe drought heat waves and periods of heavy rainfall in addition other stresses such as salinization of soils are increasing world wide Recently an increasing awareness has developed that understanding plant traits will play a major role in breeding of future crop plants For example there is increasing evidence that the traits of root systems are defined by the properties of individual roots However further knowledge on the functional importance of root segments and the molecular physiological mechanisms underlying root system functioning and persistence is needed and would specifically allow modifying crop root system functionality and efficiency in the future Another major gap in knowledge is localized at the root soil interface and in regard to the potential adaptive plasticity of root rhizosphere interactions under abiotic stress and or competition It is currently unknown whether adaptations in microbe communities occur for example due to modified exudation rates and what are the subsequent influences on nutrient mobilization and uptake Furthermore uncovering the mechanisms by which roots perceive neighboring roots may not only contribute to our understanding of plant developmental strategies but also has important implications on the study of competitive interactions in natural communities and in optimizing plant performance and resource use in agricultural and silvicultural systems In this Research Topic we aimed to provide an on line open access snapshot of the current state of the art of the field of root ecology and physiology with special focus on the translation of root structure to function and how root systems are influenced by interplay with internal and external factors such as abiotic stress microbes and plant plant interaction We welcomed original research papers but reviews of specific topics articles formulating opinions or describing cutting edge methods were also gladly accepted

Plant Respiration: Metabolic Fluxes and Carbon Balance Guillaume Tcherkez,Jaleh Ghashghaie,2018-02-20 There are currently intense efforts devoted to understand plant respiration from genes to ecosystems and its regulatory mechanisms this is because respiratory CO₂ production represents a substantial carbon loss in crops and in natural ecosystems Thus in addition to manipulating photosynthesis to increase plant biomass production minimization of respiratory loss should be considered in plant science and engineering However

respiratory metabolic pathways are at the heart of energy and carbon skeleton production and therefore it is an essential component of carbon metabolism sustaining key processes such as photosynthesis. The overall goal of this book is to provide an insight in such interactions as well as an up to date view on respiratory metabolism taking advantage of recent advances and concepts from fluxomics to natural isotopic signal of plant CO₂ efflux. It is thus a nonoverlapping complement to Volume 18 in this series *Plant Respiration From Cell to Ecosystem* which mostly deals with mitochondrial electron fluxes and plant scale respiratory losses.

Plant Resource Allocation Fakhri A. Bazzaz, John Grace, 1997-07-23 Plant Resource Allocation is an exploration of the latest insights into the theory and functioning of plant resource allocation. An international team of physiological ecologists has prepared chapters devoted to the fundamental topics of resource allocation. Comprehensive coverage of all aspects of resource allocation in plants. All contributors are leaders in their respective fields.

Physiological ecology of trees under environmental stresses Song Heng Jin, Guolei Li, Geoff Wang, Tongli Wang, 2023-03-23

Advances in Ecological Research, 1999-02-12 This volume contains papers highlighting the diverse interests of modern ecologists. Areas covered range from modeling terrestrial carbon exchange and storage to the relationship between animal abundance and body size. Other papers address the free air carbon dioxide enrichment in global change research, generalist predators interaction strength and food web stability, delays, demography and cycles and spatial root segregation. This volume is essential for all ecologists.

Trends in European Forest Tree Physiology Research Satu Huttunen, Hannele Heikkilä, Jürg Bucher, Björn Sundberg, Paul Jarvis, R. Matyssek, 2013-04-17 The increasing concern for the serious problems of forest decline that occurred in the Northern Hemisphere in the late 1970s and early 1980s led to an emphasis on the necessity of promoting and setting up investigations into the basic physiological mechanisms of forest trees. Since then the concern about rapid changes has decreased along with the increase of monitored data on European forests health status. But tree physiology has faced new questions about changing climate and increasing atmospheric carbon dioxide concentrations. Advances in plant molecular biology and forest genetics have opened up new avenues in the research on forest tree physiology. At the same time it has become evident that molecular and genetic tools give only a basis for further research on tree structure and function which needs basic tree physiology again. On the other hand the problems of forest decline in Europe are not over. They are no longer discussed daily in the media but stress is an everyday phenomenon experienced by European forest trees. For instance in southern Europe and mountainous regions drought stress and many other abiotic or biotic factors are stressors and cause problems to forests with many important social and protective functions. Stress physiology is a branch of everyday physiology in traditional forestry. How to grow a forest with maximal carbon binding functions and optimal wood quality and rich in biodiversity.

Forest Systems, 2014 Exploitation of Environmental Heterogeneity by Plants, 2012-12-02 There is a new emerging interest in the effects of gaps and patches on succession and biodiversity. This innovative volume is a synthesis of studies of plant responses to temporal and spatial heterogeneity. The

exploitation of resources from pulses and patches by plants and their competition with neighbors in the face of this variability Aboveground the book focuses upon the nature of canopy patchiness consequences of this heterogeneity for the light environment and the mechanisms by which plants respond to and exploit this patchiness Belowground the text explores the heterogeneity of soil environments and how root systems obtain nutrients and water in the context of this temporal and spatial variability As a new reference in an evolving and growing field this text is sure to be a valuable tool for researchers and advanced students in plant physiology ecology agronomy and forestry alike

Encyclopedia of Biological Invasions Dr. Daniel Simberloff, Dr. Marcel Rejmanek, 2011-01-02 This pioneering encyclopedia illuminates a topic at the forefront of global ecology biological invasions or organisms that come to live in the wrong place Written by leading scientists from around the world Encyclopedia of Biological Invasions addresses all aspects of this subject at a global level including invasions by animals plants fungi and bacteria in succinct alphabetically arranged articles Scientifically uncompromising yet clearly written and free of jargon the volume encompasses fields of study including biology demography geography ecology evolution sociology and natural history Featuring many cross references suggestions for further reading illustrations an appendix of the world's worst 100 invasive species a glossary and more this is an essential reference for anyone who needs up to date information on this important topic Encyclopedia of Biological Invasions features articles on Well known invasive species such the zebra mussel chestnut blight cheatgrass gypsy moth Nile perch giant African snail and Norway rat Regions with especially large numbers of introduced species including the Great Lakes Mediterranean Sea Hawaiian Islands Australia and New Zealand Conservation ecological economic and human and animal health impacts of invasions around the world The processes and pathways involved in invasion Management of introduced species

Ecology, conservation, and restoration of grazing ecosystems in the anthropocene Steve Monfort, Jane Addison, Karsten Wesche, Yun Jäschke, Peter Leimgruber, 2023-06-06

Tropospheric Ozone S.B. Agrawal, Madhoolika Agrawal, Anita Singh, 2021-09-20 This book presents updated and relevant information on the tropospheric ozone problem and its effects on the plants and human health The contributions here present in depth knowledge about history pattern sources environmental factors and other necessary aspects of the tropospheric ozone problem The book provides a balanced view of current developments on the effects of the tropospheric ozone on plant and human health crop production and ecosystem services In addition to the effects of the tropospheric ozone on growth and physiological and biochemical traits it also considers the molecular basis of plant responses to ozone The book encompasses a holistic view on various interconnected issues of ozone pollution and will appeal to scientists from all over the world

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