Regulation of Tissue pH in Plants and Animals

Edited by S. EGGINTON, E. W. TAYLOR and J. A. RAVEN

SOCIETY FOR EXPERIMENTAL BIOLOGY SEMINAR SERIES 68

# **Regulation Of Tissue Ph In Plants And Animals**

Jeffrey G. Richards,William Stewart Hoar,Anthony Peter Farrell,David J. Randall,Colin J. Brauner

#### **Regulation Of Tissue Ph In Plants And Animals:**

Regulation of Tissue pH in Plants and Animals S. Egginton, Edwin W. Taylor, J. A. Raven, 2007-08-16 A broad ranging authoritative and accessible review of exciting discoveries in acid base regulation in animals and plants together with a Root Ecology Hans de Kroon, Eric J.W. Visser, 2003-05-21 In the course of evolution a critical look at techniques and tools great variety of root systems have learned to overcome the many physical biochemical and biological problems brought about by soil This development has made them a fascinating object of scientific study This volume gives an overview of how roots have adapted to the soil environment and which roles they play in the soil ecosystem The text describes the form and function of roots their temporal and spatial distribution and their turnover rate in various ecosystems Subsequently a physiological background is provided for basic functions such as carbon acquisition water and solute movement and for their responses to three major abiotic stresses i e hard soil structure drought and flooding The volume concludes with the interactions of roots with other organisms of the complex soil ecosystem including symbiosis competition and the function of Fish Physiology: Hypoxia Jeffrey G. Richards, Anthony Farrell, Colin Brauner, 2009-03-10 Periods of roots as a food source environmental hypoxia Low Oxygen Availability are extremely common in aquatic systems due to both natural causes such as diurnal oscillations in algal respiration seasonal flooding stratification under ice cover in lakes and isolation of densely vegetated water bodies as well as more recent anthropogenic causes e g eutrophication In view of this it is perhaps not surprising that among all vertebrates fish boast the largest number of hypoxia tolerant species hypoxia has clearly played an important role in shaping the evolution of many unique adaptive strategies These unique adaptive strategies either allow fish to maintain function at low oxygen levels thus extending hypoxia tolerance limits or permit them to defend against the metabolic consequences of oxygen levels that fall below a threshold where metabolic functions cannot be maintained The aim of this volume is two fold First this book will review and synthesize the adaptive behavioural morphological physiological biochemical and molecular strategies used by fish to survive hypoxia exposure and place them within an environmental and ecological context Second through the development of a synthesis chapter this book will serve as the cornerstone for directing future research into the effects of hypoxia exposures on fish physiology and biochemistry The only single volume available to provide an in depth discussion of the adaptations and responses of fish to environmental hypoxia Reviews and synthesizes the adaptive behavioural morphological physiological biochemical and molecular strategies used by fish to survive hypoxia exposure Includes discussion of the evolutionary and ecological consequences of hypoxia exposure in fish

**Plant Roots** Tom Beeckman, Amram Eshel, 2024-08-30 Following its predecessors Plant Roots The Hidden Half Fifth Edition is thoroughly updated and reports the major changes that have taken place in root research since the last edition published over 10 years ago Considered a widely acclaimed book in the field of plant sciences this edition includes a broad array of topics reflecting progress being made in the subdomains of root biology featuring chapters on modern topics while

retained chapters are fully updated to demonstrate significant developments made in our understanding of root biology and in fast evolving research methodologies and techniques. It reviews all root related processes from the evolution of roots in past eras to single cell genomics allowing readers to grasp an overall view of the state of the art research in this field Among the 104 contributors to this book are seasoned experts in the field as well as uprising specialists who have already made a distinguished mark in scientific literature All of the chapters are extensively referenced featuring specific information on any topic related to the biology of the hidden half of plants Featuring full color illustrations throughout this handbook is an essential source of information for both expert and novice root scientists Low-Oxygen Stress in Plants Joost T. van Dongen, Francesco Licausi, 2014-01-17 During the last ten years knowledge about the multitude of adaptive responses of plants to low oxygen stress has grown immensely The oxygen sensor mechanism has been discovered the knowledge about the interaction network of gene expression is expanding and metabolic adaptations have been described in detail Furthermore morphological changes were investigated and the regulative mechanisms triggered by plant hormones or reactive oxygen species have been revealed This book provides a broad overview of all these aspects of low oxygen stress in plants It integrates knowledge from different disciplines such as molecular biology biochemistry ecophysiology and agricultural horticultural sciences to comprehensively describe how plants cope with low oxygen stress and discuss its ecological and agronomical consequences This book is written for plant scientists biochemists and scientists in agriculture and ecophysiology Journal of Experimental Biology, 2005 Pesticides Documentation Bulletin, 1966-10 Plasma Membrane Oxidoreductases in Control of Animal and Plant Growth Frederick Crane, 2013-04-17 The objective of this workshop was to examine the nature of plasma membrane electron transport and how this electron transport contributes to growth of cells The workshop came at a time when the study of the plasma membrane oxidoreductase activity was beginning to attract more widespread attention from researchers working with both plants and animals The rapid response of c fos and c myc Proto oncogene to stimulation of plasma membrane redox activity by external oxidants under scores a potential role of plasma membrane oxidoreductases in growth control Other experiments with isolated endosomes in dicate emerging roles in endocytosis and lytic processes Primary attention was focused on trans plasma membrane electron transport which brings about the oxidation of cytosolic NADH NADPH or other substrates by electron flow across the plasma membrane to external oxidants including ferric iron semide hydroascorbate or oxygen A major theme in the workshop was the relation of this electron flow to pH changes of the cytoplasm or the transfer of protons to the external medium The presence and role of other oxidoreductases in the plasma membrane was documented especially in regard to peroxide production In plant cells this may contribute to cellular defense against invading para sites A corresponding function in animals has been long known **Guide to Best Practices for Ocean Acidification** and extensively discussed but was beyond the scope of this workshop **Research and Data Reporting**,2011 Code of Federal Regulations, Title 9, Animals and Animal Products, PT. 1-199,

*Revised as of January 1, 2012* U. s. Government Printing Office,2012-05-07 The Code of Federal Regulations is a codification of the general and permanent rules published in the Federal Register by the Executive departments and agencies of the United States Federal Government This volume includes Animal and Plant Health Inspection Service regulations

Research Grants Index National Institutes of Health (U.S.). Division of Research Grants, 1974 Sewage Sludge Viral and Pathogenic Agents in Soil-plant-animal Systems G. T. Edds, 1981 **Environmental Protection Research Catalog: Indexes** Smithsonian Science Information Exchange,1972 **Physiological Abstracts**, 1928 The A B C of Hydroaen *Ion Control* William Anthony Taylor, 1926 Plant Techniques S.M. Khasim, K. Thammasiri, S. Rama Rao, M. Rahamtulla, 2024-08-09 This book deals with the basic concepts of Plant Science including botanical micro technique and microtomy staining techniques molecular techniques plant tissue culture electron microscopy and cryopreservation and germplasm storage It is the outcome of several decades of research and teaching in plant biology to undergraduate and postgraduate students of Plant Science Horticulture Microbiology and Biotechnology Print edition not for sale in Bangladesh **Code of Federal Regulations**, 2016 Special edition of the Federal Register Bhutan India Nepal Pakistan and Sri Lanka containing a codification of documents of general applicability and future effect with ancillaries Fish Physiology Jeffrey G. Richards, William Stewart Hoar, Anthony Peter Farrell, David J. Randall, Colin J. Brauner, 1969 Environmental Physiology of Animals Pat Willmer, Graham Stone, Ian Johnston, 2009-03-12 The new and updated edition of this accessible text provides a comprehensive overview of the comparative physiology of animals within an environmental context Includes two brand new chapters on Nerves and Muscles and the Endocrine System Discusses both comparative systems physiology and environmental physiology Analyses and integrates problems and adaptations for each kind of environment marine seashore and estuary freshwater terrestrial and parasitic Examines mechanisms and responses beyond physiology Applies an evolutionary perspective to the analysis of environmental adaptation Provides modern molecular biology insights into the mechanistic basis of adaptation and takes the level of analysis beyond the cell to the membrane enzyme and gene Incorporates more varied material from a wide range of animal types with less of a focus purely on terrestrial reptiles birds and mammals and rather more about the spectacularly successful strategies of invertebrates A companion site for this book with artwork for downloading is available at www blackwellpublishing com willmer Life in the Cold Gerhard Heldmaier, 2000-08-07 This book gives an up to date account of the current knowledge of cold adaptation in animals including phenomena like hibernation daily torpor thermoregulation and thermogenesis metabolic regulation freeze tolerance anaerobiosis metabolic depression and related processes For the next four years until the 12th International Hibernation Symposium it will serve as a state of the art reference source for every scientist and graduate student working in these areas of physiology and zoology

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