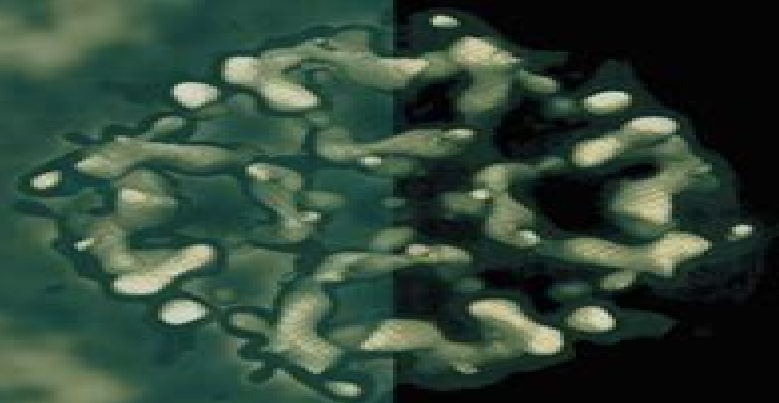


*MOLECULAR BIOLOGY AND PHYSIOLOGY  
OF WATER AND SOLUTE TRANSPORT*



**Edited by Stefan Hohmann and Søren Nielsen**

# Molecular Biology And Physiology Of Water And Solute Transport

**M. Iqbal R. Khan, Amarjeet Singh, Péter  
Poór**



## **Molecular Biology And Physiology Of Water And Solute Transport:**

**Molecular Biology and Physiology of Water and Solute Transport** Stefan Hohmann, Søren Nors Nielsen, Søren Nielsen, 2000 Biophysical studies in the 1950ies and 1960ies led to the realization that the water permeability of certain biological membranes must be due to the presence of water transporting proteins This hypothesis was confirmed in 1991 and 1992 with the pioneering discovery of the first molecular membrane water channel CHIP28 by Agre and coworkers This integral membrane protein which is abundant in the erythrocyte membrane and in many epithelial cells is now called aquaporin 1 or AQP1 Thus the terms water channel or aquaporin are synonymous In July 2000 more than 200 researchers came together in Gothenburg Sweden for the 3rd International Conference on the Molecular Biology and Physiology of Water and Solute Transport to discuss progress in this emerging research field 58 different presentations from this conference are the basis for this book Cumulatively these 58 short chapters provide a balanced overview complementing numerous recent reviews in this field

**Peroxioporins** Iria Medraño-Fernandez, Gerd Patrick Bienert, Roberto Sitia, 2023-10-11 To produce energy aerobic organisms transform oxygen molecules into water This reductive mechanism yields toxic radical intermediates collectively known as reactive oxygen species ROS Paradoxically these physiological processes entail the production of potentially damaging species Evolution has turned this apparent disadvantage into an opportunity for transmitting information As a result redox signaling within the cell is an efficient exquisitely organized process A key element for its regulation is the physical separation of sources and targets into different cell compartments Peroxioporins H<sub>2</sub>O<sub>2</sub> transporting proteins spanning biological membranes distribute the signal from emitters to receptors Thus these channels are strategically situated in the thin line between life and death guaranteeing adequate but safe signaling Key Features Provides a brief history of the discovery and characterization of peroxiporins Reviews key findings on hydrogen peroxide transport across biological membranes Discusses the cartography of redox signaling in crowded cells Includes lavish illustrations and comprehensive images to facilitate teaching Highlights recent findings outstanding controversies and open questions

**Journal of Experimental Biology**, 2002 Improving Abiotic Stress Tolerance in Plants M. Iqbal R. Khan, Amarjeet Singh, Péter Poór, 2020-05-13 Abiotic stresses such as drought flooding high or low temperatures metal toxicity and salinity can hamper plant growth and development Improving Abiotic Stress Tolerance in Plants explains the physiological and molecular mechanisms plants naturally exhibit to withstand abiotic stresses and outlines the potential approaches to enhance plant abiotic stress tolerance to extreme conditions Synthesising developments in plant stress biology the book offers strategies that can be used in breeding genomic molecular physiological and biotechnological approaches that hold the potential to develop resilient plants and improve crop productivity worldwide Features Comprehensively explains molecular and physiological mechanism of multiple abiotic stress tolerance in plants Discusses recent advancements in crop abiotic stress tolerance mechanism and highlights strategies to develop abiotic stress tolerant genotypes for

sustainability Stimulates synthesis of information for plant stress biology for biotechnological applications Presents essential information for large scale breeding and agricultural biotechnological programs for crop improvement Written by a team of expert scientists this book benefits researchers in the field of plant stress biology and is essential reading for graduate students and researchers generating stress tolerant crops through genetic engineering and plant breeding It appeals to individuals developing sustainable agriculture through physiological and biotechnological applications     Plant Solute Transport Anthony R. Yeo, Timothy J. Flowers, 2008-04-15 This book provides a broad overview of solute transport in plants It first determines what solutes are present in plants and what roles they play The physical bases of ion and water movement are considered The volume then discusses the ways in which solutes are moved across individual membranes within and between cells and around the plant Having dealt with the role of plant solutes in normal conditions the volume proceeds to examine how the use of solutes has been adapted to more extreme environments such as hot dry deserts freezing mountains and saline marshes A crucial stage in the life cycle of most plants the internally controlled dehydration concomitant with seed formation is also addressed Throughout the volume the authors link our increasing understanding of the cellular and molecular bases of solute movement with the roles that these fulfil in the whole plant under both ideal and stressful conditions showing how these are dictated by the physical laws that govern solute and water movement The book is directed at postgraduates researchers and professionals in plant physiology biochemistry and molecular biology     Water and Solute Permeability of Plant Cuticles Lukas Schreiber, Jörg Schönherr, 2009-01-31 Transport properties of plant cuticles are important for different fields of modern plant sciences Ecologists and physiologists are interested in water losses to the environment via the cuticle Penetration of plant protecting agents and nutrients into leaves and fruits is relevant for research in agriculture and plant protection Ecotoxicologists need to know the amounts of environmental xenobiotics which accumulate in leaves and other primary plant organs from the environment For all of these studies suitable methods should be used and a sound theoretical basis helps to formulate testable hypotheses and to interpret experimental data Unnecessary experiments and experiments which yield ambiguous results can be avoided In this monograph we have analysed on a molecular basis the movement of molecules across plant cuticles Based on current knowledge of chemistry and structure of cuticles we have characterised the aqueous and lipophilic pathways the nature and mechanisms of mass transport and the factors controlling the rate of movement We have focused on structure property relationships for penetrant transport which can explain why water and solute permeabilities of cuticles differ widely among plant species Based on this knowledge mechanisms of adaptation to environmental factors can be better understood and rates of cuticular penetration can be optimised by plant physiologists and pesticide chemists     Recent Advances of Plant Root Structure and Function Otília Gasparíková, Milada Ciamporová, Igor Mistrík, 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

**Water Stress and Crop Plants** Parvaiz Ahmad,2016-06-08 Plants are subjected to a variety of abiotic stresses such as drought temperature salinity air pollution heavy metals UV radiations etc To survive under these harsh conditions plants are equipped with different resistance mechanisms which vary from species to species Due to the environmental fluctuations agricultural and horticultural crops are often exposed to different environmental stresses leading to decreased yield and problems in the growth and development of the crops Drought stress has been found to decrease the yield to an alarming rate of some important crops throughout the globe During last few decades lots of physiological and molecular works have been conducted under water stress in crop plants Water Stress and Crop Plants A Sustainable Approach presents an up to date in depth coverage of drought and flooding stress in plants including the types causes and consequences on plant growth and development It discusses the physiobiochemical molecular and omic approaches and responses of crop plants towards water stress Topics include nutritional stress oxidative stress hormonal regulation transgenic approaches mitigation of water stress approaches to sustainability and modern tools and techniques to alleviate the water stress on crop yields This practical book offers pragmatic guidance for scientists and researchers in plant biology and agribusinesses and biotechnology companies dealing with agronomy and environment to mitigate the negative effects of stress and improve yield under stress The broad coverage also makes this a valuable guide enabling students to understand the physiological biochemical and molecular mechanisms of environmental stress in plants

**Brenner and Rector's The Kidney E-Book** Maarten W. Taal,Glenn M. Chertow,Philip A. Marsden,Karl Skorecki,Alan S. L. Yu,Barry M. Brenner,2011-11-01 Overcome the toughest clinical challenges in nephrology with the new 9th edition of Brenner Rector s The Kidney A brand new editorial team of Drs Maarten W Taal Glenn M Chertow Philip A Marsden Karl Skorecki Alan S L Yu and Barry M Brenner together with a diverse list of international contributors bring you the latest knowledge and best practices on every front in nephrology worldwide Brand new sections on Global Considerations in Nephrology and Pediatric Nephrology as well as new chapters on recent clinical trials cardiovascular and renal risk prediction in chronic kidney disease identification of genetic causes of kidney disease and many others keep you at the forefront of this rapidly growing ever changing specialty Brenner Rector remains the go to resource for practicing and training nephrologists and internists who wish to master basic science pathophysiology and clinical best practices Broaden your knowledge base with expert dependable comprehensive answers for every stage of your career from the most comprehensive definitive clinical reference in the field Prepare for certification or recertification with a review of the basic science that underpins clinical nephrology as well as a comprehensive selection of the most important bibliographical

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**Aquaporins in fish- expression, localization and functional dynamics** Steffen S. Madsen, By living in a world of water fish are exposed to major challenges in maintaining water homeostasis These are opposite in nature for fish living in marine and freshwater milieus however in both cases threatening obligatory water fluxes due to global osmotic gradients must be compensated by opposite fluxes driven by body fluid filtration and or locally created osmotic gradients In general water may pass epithelia that are hydrophobic in nature by para and or transcellular pathways the former mainly defined by the characteristics of tight junctions the latter determined by the combined permeability of apical and baso lateral cellular membranes Transcellular water transport may occur by simple diffusion through lipid bilayers or become markedly improved by insertion of plasma membrane integral channel proteins of the Aquaporin AQP family In mammals 13 AQP subfamilies are present and several of these have been investigated structurally and functionally in 5000 publications since their discovery in 1992 by Agre and colleagues The first paper on AQPs in fish appeared in 2000 Cutler and Cramb but surprisingly few papers have addressed AQPs in fishes and other non mammalian vertebrate classes since then In zebrafish 18 genes encode AQPs with homology to all but a few of the mammalian isoforms Only few of these isoforms have been studied to some extent in this and other species AQPs most certainly play distinct osmoregulatory roles in fish as they do in mammals both at the cellular and organismal level However there is a considerable lack of information from the fish world on this topic At present only ca 50 papers have addressed AQPs in fish most of these being concerned with basic investigations of isoform expression in various tissues of different teleosts This Research Topic will bring together

original information as well as bring the field up to date on topics related to Aquaporins in fish expression localization and functional dynamics hopefully thereby stimulating new research in this area Contributions within the following areas are welcomed Molecular biology of water transport AQP physiology and functionality in vitro and in vivo studies Cellular and subcellular localization of AQPs AQPs and cellular volume regulation osmosensing AQPs and transepithelial water transport in kidney tubules and intestinal segments Endocrine regulation of AQPs Cellular trafficking of AQPs Pharmacological inhibition of AQPs The role of AQPs in handling non water substances toxic waste etc Mini reviews identifying areas of special interest **Biomedical Index to PHS-supported Research: pt. A. Subject access A-H** ,1992 **The**

**Physiology of Characean Cells** Mary J. Beilby,Michelle T. Casanova,2013-11-19 This book describes the unique characean experimental system which provides a simplified model for many aspects of the physiology transport and electrophysiology of higher plants The first chapter offers a thorough grounding in the morphology taxonomy and ecology of Characeae plants Research on characean detached cells in steady state is summarised in Chapter 2 and Chapter 3 covers characean detached cells subjected to calibrated and mostly abiotic types of stress touch wounding voltage clamp to depolarised and hyperpolarised potential difference levels osmotic and saline stress Chapter 4 highlights cytoplasmic streaming cell to cell transport gravitropism cell walls and the role of Characeae in phytoremediation The book is intended for researchers and students using the characean system and will also serve as an invaluable reference resource for electrophysiologists working on higher plants **Research Grants Index** National Institutes of Health (U.S.). Division of Research Grants,1975

Research Awards Index ,1989 *Cell Culture Models of Biological Barriers* Claus-Michael Lehr,2002-08-08 Over the past ten years several sophisticated in vitro test systems based on epithelial cell cultures have been introduced in the field of drug delivery These models have been found to be very useful in characterizing the permeability of drugs across epithelial tissues and in studying formulations or carrier systems for improved drug delivery and Biomedical Index to PHS-supported Research ,1993 *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 *Scientific Report* Scripps Research Institute,2001 *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     **Heat and Mass Transfer** Ashim K. Datta, 2017-01-23 This substantially revised text represents a broader based biological engineering title It includes medicine and other applications that are desired in curricula supported by the American Society of Agricultural and Biological Engineers as well as many bioengineering departments in both U S and worldwide departments This new edition will focus on a significant number of biological applications problem solving techniques and solved examples Specifically there will be 160 interesting application problems over an extended biological base biomedical bioenvironmental etc that were originally developed by the author throughout his 13 years of teaching this course at Cornell



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