

Handbook of Experimental Pharmacology 190

Eric Beitz  
*Editor*

# Aquaporins



Springer

# Aquaporins Handbook Of Experimental Pharmacology

**M Carnoy**



## **Aquaporins Handbook Of Experimental Pharmacology:**

Aquaporins Eric Beitz,2008-12-19 The aquaporin field has matured at an exceptionally fast pace and we are at the verge to develop serious strategies to therapeutically modulate aquaporin function directly or via regulatory networks Key prerequisites are available today i a considerable and growing number of aquaporin crystal structures for the rational design of inhibitory molecules ii elaborate molecular dynamics simulation techniques for theoretical analyses of selectivity mechanisms and docking experiments iii comprehensive data on aquaporin immunohistochemistry iv aquaporin knockout animals for physiological studies and v assay systems for compound library screenings The structure of this volume on aquaporins follows the points laid out above and thus covers the developments from basic research to potential pharmacological use Situated between pharmacology textbooks and recent scientific papers this book provides a timely overview for readers from the fundamental as well as the applied disciplines

**Aquaporins** Eric Beitz,2008-12-19 The aquaporin field has matured at an exceptionally fast pace and we are at the verge to develop serious strategies to therapeutically modulate aquaporin function directly or via regulatory networks Key prerequisites are available today i a considerable and growing number of aquaporin crystal structures for the rational design of inhibitory molecules ii elaborate molecular dynamics simulation techniques for theoretical analyses of selectivity mechanisms and docking experiments iii comprehensive data on aquaporin immunohistochemistry iv aquaporin knockout animals for physiological studies and v assay systems for compound library screenings The structure of this volume on aquaporins follows the points laid out above and thus covers the developments from basic research to potential pharmacological use Situated between pharmacology textbooks and recent scientific papers this book provides a timely overview for readers from the fundamental as well as the applied disciplines

Aquaporin Regulation Gerald Litwack,2020-02-13 Aquaporin Regulation Volume 112 the latest release in the Vitamins and Hormones series highlights new advances in the field with this new volume presenting interesting chapters highlighting Perspectives on the evolution of aquaporin superfamily Structure and dynamics of aquaporin 1 Selectivity and Transport in Aquaporins from Molecular Simulation Studies Aquaporin regulation in metabolic organs Phosphorylation of human AQP2 and its role in trafficking Regulation of Aquaporin 2 by RNA Interference Aquaporin Regulation Lessons from Secretory Vesicles CFTR Regulation of Aquaporin mediated Water Transport Glucocorticoid Gene Regulation of Aquaporin 7 and much more

Molecular and Cellular Physiology of Gametes in Domestic and Wild Animal Models Andreina Cesari,Ana Josefa Soler,Silvina Perez-Martinez,2022-09-14

**Plant Stress Physiology** Akbar

Hossain,2021-01-20 Due to the changing climate food security for the increasing population has raised a great threat globally Therefore it is imperative to find alternate solutions for enhancing agricultural sustainability through plant stress physiology The concept of plant stress physiology has been well established over the past 60 years due to the increasing trends of environmental stress Researchers have found that crop stress physiology has an association with two main areas one is

concerned with agronomy the other concerned with plant breeding The contents of the current book emphasize the integration of both breeding and agronomy strategies to ensure agricultural productivity and environmental safety under changing climate

**Vasopressin** Gerald Litwack, 2020-03-03 Vasopressin Volume 113 in the Vitamins and Hormones series highlights new advances in the field with this new volume presenting updates on timely topics including Diabetes Insipidus in Pregnancy Vasopressin Inactivation Role of Insulin Regulated Aminopeptidase Vasotocin and the Origins of the Vasopressin Oxytocin Receptor Gene Family Vasopressin V2 Receptor Ligand Recognition Development and Therapeutic Potential of Vasopressin Synthetic Analog V4Q5 dDAVP as a Novel Anticancer Agent Cellular Junctions and Vasopressin Vasopressin Actions in the Kidney Renin Angiotensin System and its Role in Hypertension and Renal Disease Oxytocin Vasopressin Like Neuropeptide Signaling in Insects and much more

*Handbook of Computational Chemistry* Jerzy Leszczynski, 2012-01-14 This handbook is a guide to current methods of computational chemistry explaining their limitations and advantages and providing examples of their applications The first part outlines methods the balance of volumes present numerous important applications

*Henry's Clinical Diagnosis and Management by Laboratory Methods E-Book* Richard A. McPherson, Matthew R. Pincus, 2011-09-06 Recognized as the definitive book in laboratory medicine since 1908 Henry's Clinical Diagnosis and Management by Laboratory Methods edited by Richard A McPherson MD and Matthew R Pincus MD PhD is a comprehensive multidisciplinary pathology reference that gives you state of the art guidance on lab test selection and interpretation of results Revisions throughout keep you current on the latest topics in the field such as biochemical markers of bone metabolism clinical enzymology pharmacogenomics and more A user friendly full color layout puts all the latest most essential knowledge at your fingertips Update your understanding of the scientific foundation and clinical application of today's complete range of laboratory tests Get optimal test results with guidance on error detection correction and prevention as well as cost effective test selection Reference the information you need quickly and easily thanks to a full color layout many new color illustrations and visual aids and an organization by organ system Master all the latest approaches in clinical laboratory medicine with new and updated coverage of the chemical basis for analyte assays and common interferences lipids and dyslipoproteinemia markers in the blood for cardiac injury evaluation and related stroke disorders coagulation testing for antiplatelet drugs such as aspirin and clopidogrel biochemical markers of bone metabolism clinical enzymology hematology and transfusion medicine medical microbiology body fluid analysis and many other rapidly evolving frontiers in the field Effectively monitor the pace of drug clearing in patients undergoing pharmacogenomic treatments with a new chapter on this groundbreaking new area Apply the latest best practices in clinical laboratory management with special chapters on organization work flow quality control interpretation of results informatics financial management and establishing a molecular diagnostics laboratory Confidently prepare for the upcoming recertification exams for clinical pathologists set to begin in 2016

**Trends in Veterinary Sciences** Cristiano Boiti, Adriana Ferlazzo, Alberto Gaiti, Antonio

Pugliese,2013-04-18 Veterinary science is continuously achieving important developments in all its fields as a result of continuous technological advances in diagnostic tools and applied biology This book contains 33 papers that were selected from those presented at the 65th Congress of the Italian Society for Veterinary Sciences held at Tropea Drapia in 2011 It provides a timely overview of the current progress being made by Italian researchers and is of great value to anyone interested in all fields of veterinary science both theoretical and applied ranging from animal health and care to animal production and food hygiene

*Henry's Clinical Diagnosis and Management by Laboratory Methods: First South Asia Edition\_E-book* Richard A. McPherson,2016-08-31 To interpret the laboratory results To distinguish the normal from the abnormal and to understand the merits and demerits of the assays under study The book attempts to train a laboratory medicine student to achievesound knowledge of analytical methods and quality control practices tointerpret the laboratory results to distinguish the normal from the abnormaland to understand the merits and demerits of the assays under study

Magnesium in the Central Nervous System Robert Vink,Mihai Nechifor,2011 The brain is the most complex organ in our body Indeed it is perhaps the most complex structure we have ever encountered in nature Both structurally and functionally there are many peculiarities that differentiate the brain from all other organs The brain is our connection to the world around us and by governing nervous system and higher function any disturbance induces severe neurological and psychiatric disorders that can have a devastating effect on quality of life Our understanding of the physiology and biochemistry of the brain has improved dramatically in the last two decades In particular the critical role of cations including magnesium has become evident even if incompletely understood at a mechanistic level The exact role and regulation of magnesium in particular remains elusive largely because intracellular levels are so difficult to routinely quantify Nonetheless the importance of magnesium to normal central nervous system activity is self evident given the complicated homeostatic mechanisms that maintain the concentration of this cation within strict limits essential for normal physiology and metabolism There is also considerable accumulating evidence to suggest alterations to some brain functions in both normal and pathological conditions may be linked to alterations in local magnesium concentration This book containing chapters written by some of the foremost experts in the field of magnesium research brings together the latest in experimental and clinical magnesium research as it relates to the central nervous system It offers a complete and updated view of magnesiums involvement in central nervous system function and in so doing brings together two main pillars of contemporary neuroscience research namely providing an explanation for the molecular mechanisms involved in brain function and emphasizing the connections between the molecular changes and behavior It is the untiring efforts of those magnesium researchers who have dedicated their lives to unraveling the mysteries of magnesiums role in biological systems that has inspired the collation of this volume of work

Physiology and Pathology of Chloride Transporters and Channels in the Nervous System F. Javier Alvarez-Leefmans,Eric Delpire,2009-08-22 The importance of chloride ions in cell physiology has

not been fully recognized until recently in spite of the fact that chloride Cl together with bicarbonate is the most abundant free anion in animal cells and performs or determines fundamental biological functions in all tissues For many years it was thought that Cl was distributed in thermodynamic equilibrium across the plasma membrane of most cells Research carried out during the last couple of decades has led to a dramatic change in this simplistic view We now know that most animal cells neurons included exhibit a non equilibrium distribution of Cl across their plasma membranes Over the last 10 to 15 years with the growth of molecular biology and the advent of new optical methods an enormous amount of exciting new information has become available on the molecular structure and function of Cl channels and carriers In nerve cells Cl channels and carriers play key functional roles in GABA and glycine mediated synaptic inhibition neuronal growth and development extracellular potassium scavenging sensory transduction neurotransmitter uptake and cell volume control Disruption of Cl homeostasis in neurons underlies pathological conditions such as epilepsy deafness imbalance brain edema and ischemia pain and neurogenic inflammation This book is about how chloride ions are regulated and how they cross the plasma membrane of neurons It spans from molecular structure and function of carriers and channels involved in Cl transport to their role in various diseases The first comprehensive book on the structure molecular biology cell physiology and role in diseases of chloride transporters channels in the nervous system in almost 20 years Chloride is the most abundant free anion in animal cells This book summarizes and integrates for the first time the important research of the past two decades that has shown that Cl channels and carriers play key functional roles in GABA and glycine mediated synaptic inhibition neuronal growth and development extracellular potassium scavenging sensory transduction neurotransmitter uptake and cell volume control The first book that systematically discusses the result of disruption of Cl homeostasis in neurons which underlies pathological conditions such as epilepsy deafness imbalance brain edema and ischemia pain and neurogenic inflammation Spanning topics from molecular structure and function of carriers and channels involved in Cl transport to their role in various diseases Involves all of the leading researchers in the field Includes an extensive introductory section that covers basic thermodynamic and kinetics aspects of Cl transport as well as current methods for studying Cl regulation spanning from fluorescent dyes in single cells to knock out models to make the book available for a growing population of graduate students and postdocs entering the field

**Advances in Bionanomaterials II** Stefano Piotto, Simona Concilio, Lucia Sessa, Federico Rossi, 2020-05-29 This book presents multidisciplinary research focusing on the analysis synthesis and design of bio and nanomaterials Merging biophysics biochemistry and bioengineering perspectives it discusses the basic properties of materials and their interaction with biological systems the development of new medical devices such as implantable systems and new algorithms and methods for modeling the mechanical physical and biological properties of biomaterials The book gathers the proceedings of the 3rd International Conference on Bio and Nanomaterials held on September 29 October 3 2019 on an MSC cruise ship navigating the Mediterranean Sea It particularly highlights

Horizon 2020 projects covering topics such as novel synthetic strategies for nanomaterials the implementation of bio and smart materials for pharmacological and medical purposes as well as environmental applications Intended for a broad audience of academics and professionals it offers a comprehensive and timely snapshot of the field of biomaterials In addition to a set of innovative theories together with the necessary practical tools for their implementation it also addresses the current challenges in the field fostering new discussions and possible future collaborations between diverse groups

*New Insights on Cerebrospinal Fluid* Pinar Kuru Bektasoglu, 2024-11-20 Cerebrospinal fluid as a diagnostic tool has widened its reach in clinical practice due to recent advances in liquid biopsy technology and molecular diagnostic techniques Nowadays the widespread use of molecular biology in clinical practice shapes our decision making processes and prognostic course at the bedside In this book we cover recent advances in cerebrospinal fluid analysis options and how these changes have shaped and will change our daily clinical practice Future technology is coming rapidly and these changes are helping humanity to be more precise and rapid in treating cerebrospinal fluid related pathologies I hope you will find some of your answers in this book about recent advances in cerebrospinal fluid as a diagnostic and prognostic tool

Aquaporins in Health and Disease Graca Soveral, Soren Nielsen, Angela Casini, 2018-10-30 Since the discovery of Aquaporin 1 AQP1 as a water channel many studies have revealed the importance of aquaporins in mammalian physiology and pathophysiology as well as plant and microbial biology The studies have also shown aquaporins as potential drug targets and targets for improving crop properties Written by an international group of contributors at the forefront of the field Aquaporins in Health and Disease New Molecular Targets for Drug Discovery presents the latest research advances in aquaporins and other major intrinsic protein MIP channels The first section of the book describes the general concepts of aquaporin channel function genomic research structure function analysis of aquaporins and glycerol facilitators and regulation by gating and trafficking including yeast aquaporin regulation and function The second section discusses the physiological and pathophysiological roles of aquaporins in humans and microbes The final section covers the development of inhibitors of aquaporin function The book s epilogue offers future perspectives and directions mainly in the area of aquaporin based diagnostics and therapeutics Stimulating future research on this important protein family this book facilitates a paradigm shift in the understanding and roles of aquaporin membrane proteins in all biological settings It encourages scientists to develop novel approaches for the treatment of human diseases based on aquaporin function or dysfunction

**Biophysics in the Cell** Thomas Bornschlöggl, Hendrik Dietz, 2025-08-19 This textbook is for all students of the natural sciences who want to understand and apply physical concepts to better describe fundamental cellular processes For example the phenomena of diffusion as well as the mechanics of macromolecules and of the cell membrane are treated and illustrated with many examples Furthermore the formation of fibrous proteins of the cytoskeleton as well as enzyme kinetics and the functioning of molecular motors are discussed This compact book builds on a two semester lecture entitled Biophysics in the Cell given at the Technical University of Munich To

emphasize different approaches and thus make them more comprehensible important formulas are often derived in different ways By the way sections highlighting historical or current backgrounds and the scientific zeitgeist of the respective research enrich the material in an entertaining way Attractive clear and modern illustrations give the book a special charm in addition to the technically up to date and comprehensibly presented content From the contents Origin and structure of cells basic concepts of biophysics and important basics of thermodynamics and statistical mechanics Passive motion by diffusion physical description of diffusion lattice models diffusion in a potential biochemical reactions Mechanics of beams polymers and membranes elastic properties of biological components forces bending stretching stretching and rupture of the cell membrane and cytoskeleton Active movement and enzyme kinetics functioning of enzymes molecular motors and the dynamics of fibre proteins in the cytoskeleton

*Bioinorganic Medicinal Chemistry* Enzo Alessio, 2011-02-25 This book gives a comprehensive overview about medicinal inorganic chemistry Topics like targeting strategies mechanism of action Pt based antitumor drugs radiopharmaceuticals are covered in detail and offer the reader an in depth overview about this important topic

**Reaction Rate Constant Computations** Keli Han, Tianshu Chi, 2014 The reaction rate constant plays an essential role a wide range of processes in biology chemistry and physics Calculating the reaction rate constant provides considerable understanding to a reaction and this book presents the latest thinking in modern rate computational theory The editors have more than 30 years experience in researching the theoretical computation of chemical reaction rate constants by global dynamics and transition state theories and have brought together a global pool of expertise discussing these in a variety of contexts and across all phases This thorough treatment of the subject provides an essential handbook to students and researchers entering the field and a comprehensive reference to established practitioners across the sciences providing better tools to determining reaction rate constants

**Heart Failure** Johann Bauersachs, Javed Butler, Peter Sandner, 2017-06-09 This special issue of the Handbook of Experimental Pharmacology on Heart Failure covers the entire spectrum of the field from the current understanding and definitions of heart failure to epidemiology and the importance of co morbidities clinical trial design and biomarkers as well as imaging technologies The main focus of this book is to review current and emerging heart failure therapies and potential targets for treatment

**Supportive Oncology E-Book** Mellar P. Davis, Petra Feyer, Petra Ortner, Camilla Zimmermann, 2011-02-11 Supportive Oncology by Drs Davis Feyer Ortner and Zimmermann is your practical guide to improving your patients quality of life and overall outcomes by integrating palliative care principles into the scope of clinical oncologic practice at all points along their illness trajectories A multidisciplinary editorial team representing the dual perspectives of palliative medicine and oncology offers expert guidance on how to effectively communicate diagnoses and prognoses with cancer patients and their families set treatment goals and manage symptoms through pharmacological therapies as well as non pharmacological therapies and counselling when appropriate Integrate complementary palliative principles as early as possible after diagnosis with guidance from a multidisciplinary



editorial team whose different perspectives and collaboration provide a well balanced approach Effectively communicate diagnoses and prognoses with cancer patients and their families set treatment goals and manage symptoms through pharmacological therapies as well as non pharmacological therapies and counseling when appropriate Improve patients quality of life with the latest information on pain and symptom management including managing side effects of chemotherapy and radiotherapy rehabilitating and counselling long term survivors and managing tumor related symptoms and other complications in the palliative care setting Prescribe the most effective medications manage toxicities and deal with high symptom burdens

The Top Books of the Year Aquaporins Handbook Of Experimental Pharmacology The year 2023 has witnessed a noteworthy surge in literary brilliance, with numerous compelling novels enthraling the hearts of readers worldwide. Lets delve into the realm of popular books, exploring the engaging narratives that have charmed audiences this year. The Must-Read : Colleen Hoover's "It Ends with Us" This touching tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover masterfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can prevail. Uncover the Best : Taylor Jenkins Reid's "The Seven Husbands of Evelyn Hugo" This intriguing historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reid's absorbing storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Aquaporins Handbook Of Experimental Pharmacology : Delia Owens' "Where the Crawdads Sing" This captivating coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens spins a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These top-selling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of engaging stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a brilliant and suspenseful novel that will keep you wondering until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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