

**Current Topics
in Membranes and Transport**

VOLUME 37

**CHANNELS AND NOISE
IN EPITHELIAL TISSUES**

Guest Editors

**Sandy I. Helman
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ACADEMIC PRESS

Channels Noise In Epithelial Tissues

**James A. Schafer, Hans H. Ussing, Poul
Kristensen, Gerhard H. Giebisch**



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Channels and Noise in Epithelial Tissues Sandy I. Helman, Willy van Driessche, 1990 **Membrane Transport in Biology** James A. Schafer, Hans H. Ussing, Poul Kristensen, Gerhard H. Giebisch, 2013-03-07

Well over one decade has passed since the appearance of the original four volumes of *Membrane Transport in Biology*. Since the publication of the last volume there have been spectacular advances in this field. These advances have been in part the result of the application of exciting new methodologies and in part the result of new insights into the regulation and integration of transport processes. This volume as well as a sixth volume which is in preparation are intended to cover key areas in which the development has been particularly striking. For many years the trend in studies of membrane transport had been that of increasing specialization with regard to the transporter of interest and of the cell or tissue studied. This trend was supported by the enormous number of publications directed at understanding the cellular physiology of specific organ systems and tissues and also by the fact that different tissues often seemed to react so differently to the same conditions that mechanisms unique to each appear to be at play. One of the happy developments in recent years has been the realization that this apparent disparity of behaviors in different tissues is based on varying combinations of a limited number of transport mechanisms all mediated by the same or similar proteins. Some of these transport proteins have already been isolated and analyzed with respect to amino acid sequence whereas others are just entering this phase.

Voltage-Sensitive Ion Channels H. Richard Leuchtag, 2008-12-21

The goal of this book is to explore the complexity of a microscopic bit of matter that exists in a myriad of copies within our bodies: the voltage sensitive ion channel. We seek to investigate the way in which these macromolecules make it possible for the long fibers of our nerve and muscle cells to conduct impulses. These integral components of cell membranes are marvels of nature's evolutionary adaptation. To understand them we must probe the boundaries of physics and chemistry. Since function is intimately related to structure we examine the molecular structure of channels focusing on physical principles that govern all matter. With the application of genetic methods our knowledge of ion channels has broadened and deepened. In the hope that research can help ameliorate suffering we discuss the diseases that arise from channel malfunctions due to genetic mutations. This book is intended for students and scientists who are willing to travel into uncharted waters of an interdisciplinary science. We approach the subject of voltage sensitive ion channels from various points of view. This book seeks to give voice to the viewpoints of the physical and the biological scientist and to bridge gaps in terminology and background. Readers may find this book to have both elementary and advanced aspects. For the reader trained in the biological sciences it reviews background in physics and chemistry; for the reader trained in the physical sciences it reviews background in physiology and biochemistry.

Ion Transport in Vertebrate Colon W. Clauss, 2013-12-19

Studies on the colon not only serve medical interest or clinical purposes but are also a highly interesting subject of comparative physiology from which we can learn much about the basic principles in physiology. Presented here are examples of research on colonic ion transport of each

vertebrate group including the classical models of epithelia rat and rabbit and also on the special and unique features in fish amphibians reptiles birds and selected mammals such as the guinea pig Physiology and pathophysiology of ion transport in the human large intestine are as well covered as the use of colonic cell cultures as model systems for crypt cell properties

Basic Epithelial Ion Transport Principles and Function Kirk L. Hamilton, Daniel C. Devor, 2020-11-26 This book discusses unique ion channels and transporters that are located within epithelial tissues of various organs including the kidney intestine pancreas and respiratory tract As the authors show these channels and transporters play crucial roles in transepithelial ion and fluid transport across epithelia and their contribution to maintaining homeostasis Readers will be introduced to the fundamentals of ion transport in terms of function modelling regulation structure and pharmacology This is the first of three volumes highlighting the importance of epithelial ion channels and transporters in basic physiology and pathophysiology of human diseases This volume focuses on basic fundamentals of epithelial transport physiology There is a range of chapters dedicated to specific aspects of epithelial ion transport and cell function Accordingly the authors discuss techniques used to determine epithelial function principles of epithelia transport polarization of epithelial cells mathematical modelling of epithelial ion transport protein folding of ion channels degradation epithelial ion channels fundamentals of epithelial sodium potassium and chloride transport fundamentals of bicarbonate secretion volume regulation and microRNA regulation of epithelial channels and transporters Given its scope Volume 1 offers a valuable resource for physiology students scientists and clinicians alike

Current Topics in Membranes and Transport ,1991-01-18 Current Topics in Membranes and Transport

Gap Junctions: Molecular Basis of Cell Communication in Health and Disease ,1999-12-22 Since the first gap junction protein connexin was cloned over a decade ago more than a dozen connexin genes have been cloned Consequently a wealth of information on the molecular basis of gap junctional communication has been accumulated This book pays tribute to this exciting era in the history of cell communication research by documenting the great strides made in this field as a result of the merging of biophysics and molecular biology two of the most powerful approaches to studying the molecular basis of membrane channel behavior Twenty eight comprehensive chapters authored by internationally recognized leaders in the field discuss the biophysical physiological and molecular characteristics of cell to cell communication via gap junctions Key aspects of molecular structure formation gating conductance and permeability of vertebrate and invertebrate gap junction channels are highlighted In addition a number of chapters focus on recent discoveries that implicate connexin mutations and alterations of gap junctional communication in the pathogenesis of several diseases including the X linked Charcot Marie Tooth demyelinating disease some forms of inherited sensorineural deafness malignant transformation cardiac malformations and arrhythmia eye lens cataract and Chagas disease

Amiloride-Sensitive Sodium Channels: Physiology and Functional Diversity ,1999-05-04 Sodium reabsorbing epithelia play a major role in whole body sodium homeostasis Some examples of sodium regulating tissues include kidney

colon lung and sweat ducts Sodium transport across these membranes is a two step process entry through an amiloride sensitive sodium channel and exit via the ouabain sensitive sodium potassium ATPase The sodium entry channels are the rate limiting determinant for transport and are regulated by several different hormones The sodium channels also play a significant role in a number of disease states like hypertension edema drug induced hyperkalemia and cystic fibrosis

Amiloride Sensitive Sodium Channels Physiology and Functional Diversity provides the first in depth exchange of ideas concerning these sodium channels their regulation and involvement in normal and pathophysiological situations Summarizes current state of amiloride sensitive sodium channel field Analyzes structure function of epithelial sodium channels Discusses immunolocalization of epithelial sodium channels Examines hormonal regulation of sodium channels Discusses sodium channels in lymphocytes kidney and lung Considers mechanosensitivity of sodium channels Provides ideas on sodium channels and disease

Chemokines, Chemokine Receptors and Disease Lisa M. Schwiebert, 2005-09-02 This volume in the Current Topics in Membranes series discusses the biology of chemokines and their binding partners chemokine receptors in normal and disease related states Chemokines are small proteins that are important in normal immune responses Recent research demonstrates a role for these proteins in a variety of diseases such as heart disease allergy asthma and cancer As a result of the discovery of this link to disease the topic of chemokines and drugs that block their actions has become an intense area of study This book presents the topics of chemokines chemokine receptors and related pathologies in an integrated manner that provides the reader with a comprehensive and up to date knowledge of these topics Provides a comprehensive overview of the history molecular biology cell biology pharmacology physiology and pathophysiology of chemokines and their receptors Each chapter discusses future directions and unanswered questions of chemokine biology Serves as a road map for future research

The Eye's Aqueous Humor, 2008-11-03 Current Topics in Membranes provides a systematic comprehensive and rigorous approach to specific topics relevant to the study of cellular membranes Each volume is a guest edited compendium of membrane biology Guest edited by cell membrane experts Dynamic and thorough coverage of all aspects of the aqueous humor from inflow to outflow Provides the latest teachings on genomics and glaucoma Highlights new therapeutic strategies for the control of intraocular pressure

Free Radical Effects on Membranes, 2008-06-30 Current Topics in Membranes provides a systematic comprehensive and rigorous approach to specific topics relevant to the study of cellular membranes This volume consists of eleven chapters from experts in the field that encompass free radical effects on diverse membrane functions ranging from selective barrier functions controlling membrane protein function to discussing how the hydrophobic environment within membranes regulate free radical reactivity The focus is on articles discussing specific examples in which membranes from different cellular compartments e.g. plasma ER mitochondria and membrane proteins either regulate reactive species formation and reactivity or are specific targets of reactive species leading to alteration in function Provides overviews on biomembranes and the impact their

physico chemical properties have on reactive species reactivity Focuses is on reactive species and control of cell signaling pathways Illustrates the concept that different reactive species can modulate function of specific membrane ion channels in different tissues including sodium channels chloride channels sodium potassium ATPases and calcium channels in both plasma and intracellular organelle membranes

The Nociceptive Membrane ,2011-09-21 Membranes are essential cellular organelles They not only define cells and other organelles but also are critical in the cell function by selectively regulating the passage of molecules by acting as a matrix for other signaling molecules and as conduits of information transfer between the external environment and the cell interior This series was originally added in 1970 and has since provided a systematic comprehensive and rigorous approach to specific topics relevant to the study of cellular membranes Each volume is a guest edited compendium of membrane biology This series has been a mainstay for practicing scientists and students interested in this critical field of biology Articles covered in the volume include History of Ion Channels in the Pain Sensory System Historical Overview TRPV1 a Polymodal Sensor in the Nociceptor Terminal Nociceptive Signals to TRPV1 and its Clinical Potential Gating Sensitization and Desensitization of TRPV1 TRP Channels as Thermosensors ASIC Channels P2X Receptors in Sensory Neurons Voltage Gated Sodium Channels and Neuropathic Pain Voltage Gated Potassium Channels in Sensory Neurons

Molecular Biology of Membrane Transport Disorders Stanley G. Schultz,1996-06-30 The scope and depth of this book are excellent with in depth reviews that will be of benefit to both novice and expert alike An excellent text worthy of a place on any self respecting membranologists book shelf and I recommend it highly Trends in Biochemical Sciences Molecular Biology of Membrane Transport Disorders comprises the first compilation of papers on the important membrane transporters and ion channels with an emphasis on membrane transport disorders Internationally recognized leaders in the field provide a thorough understanding of the pathogenesis of clinical conditions that involve derangements in membrane transport processes at the molecular level This work is a valuable resource for medical and graduate students and researchers in the biomedical sciences as well as academic physicians in cardiology nephrology neurology and gastroenterology

Co-Transport Systems ,2012-12-31 Current Topics in Membranes is targeted towards scientists and researchers in biochemistry and molecular and cellular biology providing the necessary membrane research to assist them in discovering the current state of a particular field and in learning where that field is heading In this volume researchers are encouraged to fully explore topics and research related to co transport systems The authors and editors associated with the Current Topics in Membranes series are recognized as world renowned scientists in their respective fields making CTM one of the premier serials on membranes Field is cutting edge and a lot of the information is new to research community Wide breadth of topic coverage Contributors of high renown and expertise

Advances in Adrenergic Receptor Biology ,2011-08-03 This volume of Current Topics in Membranes focuses on adrenergic receptor biology beginning with a review of past successes and historical perspectives then further discussing current general trends in adrenergic receptor studies in

various contexts This publication also includes discussions of the role and relationship of adrenergic receptors to different systems and diseases establishing adrenergic receptor biology as a needed practical reference for researchers

Extracellular Nucleotides and Nucleosides: Release, Receptors, and Physiological & Pathophysiological Effects, 2003-09-10 Purinergic receptors are proteins that bind ATP as their extracellular ligand Once thought only as an intracellular molecule that provides energy ATP is also now considered an essential autocrine paracrine agonist that acts extracellularly within tissues and tissue microenvironments Receptors for ATP and its metabolites so called purinergic receptors are essential membrane receptors that transduce the extracellular signal carried by ATP Many cell types or tissues express multiple types of these receptors often on the same cell This volume will cover the history and overall impact of extracellular ATP signaling methods to detect ATP release and signaling the molecular and cell biology of purinergic receptors the pharmacology of purinergic receptors the ion channel biophysics and biochemistry of P2X purinergic receptor channels and the physiology and pathophysiology of purinergic receptors Key Features Organized and written by world renowned experts Covers state of the art experimental methods Has broad appeal to basic and clinical scientists the biotech industry and pharmaceutical research companies *Ion Transport by Epithelia* Stanley G. Schultz, 1981 *Current Topics in Membranes* Kim E. Barrett, Mark Donowitz, 2001 This title contains comprehensive reviews of novel information in intestinal transport including control of nutrition in gene regulation There are diagrammatic representations of key concepts and processes Additionally this volume offers new insight at a molecular level into the basis of intestinal disease The topics covered in this book also relate to other epithelial organs such as the lungs kidney and biliary system [Aquaporins](#), 2001-04-04 Aquaporins summarizes the present knowledge in this expanding field of research starting with the structural analysis of water channel proteins Subsequent chapters begin with mammalian aquaporins examining physiology and pathophysiology analysis of knock out model animals and the regulation of aquaporin function Also covered is the distribution and regulation of aquaporins in plants and the function of water and glycerol channels in microbial systems Comprehensive treatment of a topical research field Authored by world leaders in the field Covers structural biology and physiology Covers different experimental and biological systems Chapters on plant and microbial systems Extensive treatment of mammalian physiology and pathophysiology Structural analysis excellently illustrated **Peptide-Lipid Interactions** Sidney A. Simon, Thomas J. McIntosh, 2002-03-26 This volume contains a comprehensive overview of peptide lipid interactions by leading researchers The first part covers theoretical concepts experimental considerations and thermodynamics The second part presents new results obtained through site directed EPR electron microscopy NMR isothermal calorimetry and fluorescence quenching The final part covers problems of biological interest including signal transduction membrane transport fusion and adhesion Key Features world renowned experts state of the art experimental methods monolayers bilayers biological membranes theoretical aspects and computer simulations rafts synaptic transmission membrane fusion

signal transduction

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