

Potassium Channels in Normal and Pathological Conditions



J. Verwecke, P.P. van Bogaert, F. Vondrick
(eds.)

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Ernst M. Jucker



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Potassium Channels in Normal and Pathological Conditions J. Vereecke, P. P. van Bogaert, Fons Verdonck, 1995

Mechanically Gated Channels and their Regulation Andre Kamkin, Ilya Lozinsky, 2012-12-05 The volume dwells on the major issues of mechanical stress influencing the ion channels and intracellular signaling pathways This book is a unique collection of reviews outlining current knowledge and future developments in this rapidly growing field In our opinion the book presents not only the latest achievements in the field but also brings the problem closer to the experts in related medical and biological sciences as well as practicing doctors Knowledge of the mechanisms which underlie these processes is necessary for understanding of the normal functioning of different living organs and tissues and allows to predict changes which arise due to alterations of their environment and possibly will allow to develop new methods of artificial intervention We also hope that presenting the problem will attract more attention to it both from researchers and practitioners and will assist to efficiently introduce it into the practical medicine

Adrenal Cortex: From Physiology to Disease Pierre Val, Antoine Martinez, 2016-07-18 The adrenal gland plays essential roles in the control of body homeostasis stress and immune responses The adrenal cortex represents up to 90% of the gland and is specialised in the production of mineralocorticoids glucocorticoids and adrenal androgens This production is tightly coordinated and results from a unique zonal organisation Although our knowledge of the molecular mechanisms controlling adrenal steroidogenesis is quite extensive for decades the mechanisms of adrenal cortex development cellular homeostasis and renewal have remained elusive The advent of new high throughput technologies and sophisticated genetic approaches has brought tremendous progress in our understanding of how the adrenal cortex achieves and maintains its particular organisation The aim of this *Frontiers in Endocrinology* Topic is to provide readers with a snapshot of our current knowledge on adrenal physiology and how deregulations of these processes result in adrenal diseases This includes but is not limited to basic research on adrenal development cell lineage identification progenitor cells tissue renewal control of differentiation and zonation and clinical research on the identification of disease related genes

Chemical Abstracts Service Source Index American Chemical Society. Chemical Abstracts Service, 1907 A key source to journal and conference abbreviations in the sciences Although it focuses on chemistry other scientific and engineering disciplines are also well represented In addition to the abbreviation and full title each entry also contains publishing info title changes language and frequency of publication and libraries owning that title Over 130 000 entries representing more than 70 000 publications dating back to 1907 are included

Molecular Genetics of Cardiac Electrophysiology C. Berul, Jeffrey A. Towbin, 2000-04-30 The molecular basis for atrial fibrillation continues to be largely unknown and therapy remains unchanged aimed at controlling the heart rate and preventing systemic emboli with anticoagulation Familial atrial fibrillation is more common than previously suspected While atrial fibrillation is commonly associated with acquired heart disease a significant proportion of individuals have early onset without other forms of heart

disease referred to as lone atrial fibrillators It is also well recognized that atrial fibrillation occurs on a reversible or functional basis without associated structural heart disease such as with hyperthyroidism or of atrial fibrillation following surgery It remains to be determined what percentage in these individuals is familial or due to a genetic predisposition Mapping the locus for familial atrial fibrillation is the first step towards the identification of the gene Isolation of the gene and subsequent identification of the responsible molecular genetic defect should provide a point of entry into the mechanism responsible for the familial form and the common acquired forms of the disease and eventually provide more effective therapy We know that the ionic currents responsible for the action potential of the atrium is due to multiple channel proteins as is electrical conduction throughout the atria Analogous to the ongoing genetic studies in patients with familial long QT syndrome it is highly likely that defects in each of these channel proteins will be manifested in familial atrial fibrillation

The Node of Ranvier Joy Zagoren, 2012-12-02 The Node of Ranvier is a collection of studies about the function morphology and development of the node of Ranvier from experts of different disciplines The book covers topics such as the evolution of the structure and structure and function of the nodes of Ranvier membrane specialization at the nodes of Ranvier and catch binding Also included in the book are studies about the structural and functional relationships of ion conduction in the myelinated and demyelinated axon functional organization of potassium channels in axons the effects of pathological conditions and toxins on nodes of Ranvier and nodelike membranes at extranodal sites Physiologists biochemists pharmacologists cell biologists neurologists and neuropathologists who would like to find out more and make a study about the node of Ranvier will find the text helpful and relevant

Dermatotoxicology Klaus Peter Wilhelm, Hongbo Zhai, Howard I. Maibach, 2012-09-27 The foundational reference in dermal toxicology this classic text has been completely revised to bring it up to date in the new Eighth Edition with almost a third of its chapters being newly added The structure of the text has also been reorganized to enable easier location of a topic of interest With contributions from leading international ex

Human Papillomavirus and Related Diseases Davy Vanden Broeck, 2012-01-25 Cervical cancer is the second most prevalent cancer among women worldwide and infection with Human Papilloma Virus HPV has been identified as the causal agent for this condition The natural history of cervical cancer is characterized by slow disease progression rendering the condition in essence preventable and even treatable when diagnosed in early stages Pap smear and the recently introduced prophylactic vaccines are the most prominent prevention options but despite the availability of these primary and secondary screening tools the global burden of disease is unfortunately still very high This book will focus on epidemiological and fundamental research aspects in the area of HPV and it will update those working in this fast progressing field with the latest information

Heart Physiology and Pathophysiology Yoshihisa Kurachi, Andre Terzic, Michael V. Cohen, 2000-10-09 Heart Physiology and Pathophysiology 4E provides the foundation for the scientific understanding of heart function and dysfunction and bridges the gap between basic cardiovascular science and clinical cardiology This comprehensive text covers all the

important aspects of the heart and vascular system The most important and relevant disorders are presented with emphasis on the mechanisms involved The first three editions of this book developed a reputation as the leading reference in cardiovascular science for researchers and academic cardiologists This recent edition has been updated expanded and includes a number of new contributors It has also been remodeled to expand its usage as a text reference for cardiology residents practicing cardiologists and graduate students Key Features The most comprehensive book available on this topic Clear concise and complete coverage of all important aspects of cardiovascular physiology pathophysiology Completely updated version of the foremost reference on cardiovascular science including new information on pathophysiology and electrophysiology Useful tool in bridging the gap between basic science pathophysiology and clinical cardiology **Nerve,**

Organ, and Tissue Regeneration: Research Perspectives Fredrick Seil,2012-12-02 Nerve Organ and Tissue Regeneration Research Perspectives presents the proceedings of a symposium held in Harpers Ferry West Virginia on September 21 24 1982 This book explores the neural and nonneural areas of regeneration with emphasis on the nervous system Organized into six parts encompassing 22 chapters this compilation of papers examines the commitment of the Veterans Administration to deal with the clinical problem of spinal cord injury by establishing 19spinal cord injury treatment and rehabilitation centers throughout the United States This book then discusses the characteristics of the neuronal response to axon injury which vary from cellular hypertrophy and heightened metabolism to cell death Other chapters consider the three phases of axonal regeneration including sprout formation elongation and maturation The final chapter deals with the structural and functional alterations that developed when the length of the mammalian intestine is shortened by excision or by pass of a long segment This book is a valuable resource for biologists orthopedic surgeons and neuroscientists

Adrenergic System and Ventricular Arrhythmias in Myocardial Infarction J. Brachmann,A. Schömig,2012-12-06 This book presents new aspects on electrophysiological mechanisms and catecholaminergic contributions in the setting of acute and chronic myocardial ischemia Special emphasis is placed on the full scope from basic molecular and cellular mechanisms to experimental models of close clinical proximity A number of internationally distinguished scientists present their latest findings in this significant research area within the perimeter of cardiovascular disease which continues to lead mortality statistics in most industrialized countries Contents of this book cover in addition to other subjects release and uptake of catecholamines in ischemia regulation of receptors adrenergic contribution to ventricular arrhythmias and mechanisms of ischemic malignant arrhythmias as well as underlying changes in membrane currents and the electrophysiological response to beta adrenergic blocking drugs In addition to original contributions a number of editorial chapters are included for conclusions and future development in these areas *na* Andreas Reichenbach,Andreas Bringmann,2011-02-18 M ller cells make up just 0 005% of the cells in our central nervous system They do not belong to the more esteemed family of neuronal cells but to the glia a family of cells that until recently were seen as mere filling material

between the neurons Now however all that has changed Sharing the insights of more than a quarter century of research into Müller cells Drs Andreas Reichenbach and Andreas Bringmann of Leipzig University make a compelling case for the central role Müller cells play Everyone agrees that the eye is a very special and versatile sense organ yet it has turned out in recent years that Müller cells are peculiar and multipotent glial cells In the retina of most vertebrates and even of many mammals Müller cells are the only type of macroglial cells thus they are responsible for a wealth of neuron supportive functions that in the brain rely upon a division of labour among astrocytes oligodendrocytes and ependymal cells Even beyond such a role in the central nervous system as model glia Müller cells are adapted to several exciting roles in support of vision They deliver the light stimuli to the photoreceptor cells in the inverted vertebrate retina aid the processing of visual information and are responsible for the homeostatic maintenance of the retinal extracellular milieu In Müller Cells in the Healthy and Diseased Retina aimed not just at neurobiologists but at anyone concerned with retinal degeneration every angle of Müller cells is covered from an introduction to their basic properties through their roles as light cables and shock absorbers to the part they play in diseases and disorders of the eye Once these have all been covered in detail the authors move on to discuss the future direction of research into these small but potent cellular phenomena About the Authors Dr Andreas Reichenbach was born in 1950 in Leipzig Germany He studied medicine and specialized as a physiologist working on the mammalian retina Since 1984 he has focused his efforts and those of a growing number of fellows in his team on Müller cell research He has held a professorship at Leipzig University since 1994 After studying biology Dr Andreas Bringmann 1960 worked in the field of systemic neurophysiology until he was inspired in 1996 by Andreas Reichenbach to research the most interesting cell the Müller cell He is now in the Department of Ophthalmology of the University of Leipzig where he is the head of the Basic Research Laboratory

Progress in Drug Research Ernst M. Jucker, 2012-12-06 Jay A Glasel Drugs the human genome and individual based medicine Vera M Kolb Herbal medicine of Wisconsin Indians Paul L Skatrud The impact of multiple drug resistance MDR proteins on chemotherapy and drug discovery John W Ford Edward B Stevens J Mark Treherne Jeremy Packer and Mark Bushfield Potassium channels Gene family therapeutic relevance high throughput screening technologies and drug discovery David T Wong and Frank P Bymaster Dual serotonin and noradrenaline uptake inhibitor class of antidepressants Potential for greater efficacy of just hype Satya P Gupta Advances in QSAR studies of HIV 1 reverse transcriptase inhibitors

Patch Clamp Technique - Current Methods and Future Prospects, 2024-12-11 This book provides a comprehensive guide to both established and innovative methodologies for exploring ion channel function across various applications Each chapter begins with a helpful introduction to orient nonexpert readers providing background and context for the methods discussed followed by detailed step by step protocols for practical implementation Topics covered include techniques such as macropatch recordings bilayer recordings dynamic clamp organotypic slice culture as well as advanced approaches like combined in vivo patch clamp recording with optogenetics and multielectrode array technology

Ion Channel Trafficking and Cardiac Arrhythmias Marcel A.G. van der Heyden, Brian P. Delisle, Baoxin Li, Hugues Abriel, 2018-12-06 A well adjusted expression of cardiac ion channels at the sarcolemma is of crucial importance for normal action potential formation and thus cardiac function The cellular processes that transport channel proteins from the endoplasmic reticulum towards specified regions on the sarcolemmal membrane and subsequently take them from the plasma membrane to the protein degradation machinery are commonly known as trafficking The research field recognizes that aberrant channel trafficking stands at the basis of many congenital and acquired arrhythmias The collection of papers in this eBook provides state of the art insight into the world of ion channel trafficking research **Principles of Safety Pharmacology** Michael K. Pugsley, Michael J Curtis, 2015-06-19 This book illustrates in a comprehensive manner the most current areas of importance to Safety Pharmacology a burgeoning unique pharmacological discipline with important ties to academia industry and regulatory authorities It provides readers with a definitive collection of topics containing essential information on the latest industry guidelines and overviews current and breakthrough topics in both functional and molecular pharmacology An additional novelty of the book is that it constitutes academic pharmaceutical and biotechnology perspectives for Safety Pharmacology issues Each chapter is written by an expert in the area and includes not only a fundamental background regarding the topic but also detailed descriptions of currently accepted validated models and methods as well as innovative methodologies used in drug discovery ***Modelling the Short QT Syndrome Gene Mutations*** Ismail Adeniran, 2014-06-11 The Short QT Syndrome SQTs is characterized by abbreviated QT intervals on the electrocardiogram increased risk of cardiac arrhythmias and sudden death Although several gene mutations have been identified in SQT patients the role of these mutations in promoting arrhythmogenesis is still not completely understood Consequently this thesis employs multidisciplinary approaches to develop a 3D virtual heart which is then used to elucidate how the short QT syndrome facilitates and maintains ventricular arrhythmias and to determine its effects on ventricular mechanical contraction The findings in this thesis provide a comprehensive and mechanistic explanation for a number of gene mutations associated with potassium channels in terms of susceptibility to arrhythmia The multiphysics models developed provide a powerful platform for identifying the root causes of various arrhythmias and investigating therapeutic interventions for these diseases The thesis was examined by Prof Chris Huang of the University of Cambridge the most authoritative figure in cardiac electrophysiology who has described the work as outstanding **Seldin and Giebisch's The Kidney** Robert J. Alpern, Michael J. Caplan, Orson W. Moe, 2012-12-31 A classic nephrology reference for over 25 years Seldin and Giebisch's The Kidney is the acknowledged authority on renal physiology and pathophysiology In this 5th edition such new and powerful disciplines as genetics and cell biology have been deployed to deepen and widen further the explanatory framework Not only have previous chapters been extensively updated but new chapters have been added to incorporate additional disciplines Individual chapters for example now provide detailed treatment of the significance of cilia the role of

stem cells is now given special consideration Finally there has been a significant expansion of the section of pathophysiology incorporating the newer findings of cell biology and genetics If you research the development of normal renal function or the mechanisms underlying renal disease Seldin and Giebisch's The Kidney is your number one source for information Offers the most comprehensive coverage on the market of fluid and electrolyte regulation and dysregulation in 85 completely revised chapters and 10 new chapters Includes 4 sections 62 chapters devoted to regulation and disorders of acid base homeostasis and epithelial and nonepithelial transport regulation Includes foreword by Donald Seldin and Gerhard Giebisch world renowned names in nephrology and editors of the previous three editions

Electrical Diseases of the Heart Ihor Gussak, Charles Antzelevitch, Arthur A.M. Wilde, Brian D. Powell, Michael J. Ackerman, Win-Kuang Shen, 2013-04-22 Electrical Disease of the Heart 2nd Edition volume 1 provides a valuable insight to the latest developments in the field of cardiac electrophysiology and clinical electrocardiology Each chapter includes up to date results of studies aimed at providing an understanding of the electrical function of the heart in health and disease established and evidence based knowledge of clinical outcomes areas of controversy and future trends This book is highly relevant to a broad audience ranging from medical and graduate students to clinicians and scientists

Modulation of Oxidative Stress in Heart Disease Sajal Chakraborti, Naranjan S. Dhalla, Madhu Dikshit, Nirmal K. Ganguly, 2019-11-10 This book highlights the multifaceted roles of Reactive Oxygen Species ROS in modulating normal cellular and molecular mechanisms during the development of different types of heart disease Each chapter in the book deals with the role that altered redox homeostasis plays in the pathophysiology of heart disease In addition the book explains how reactive oxidant species interact with their targets and provides novel strategies for attenuating oxidative stress induced types of heart disease The book not only covers ROS induced response in heart disease at the cellular level but also demonstrates that an imbalance of redox states has its roots in our genes and explains the ways gene expression is regulated In turn it reviews potential sources of ROS their pathological effects on the heart and potential sites for therapeutic interventions

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