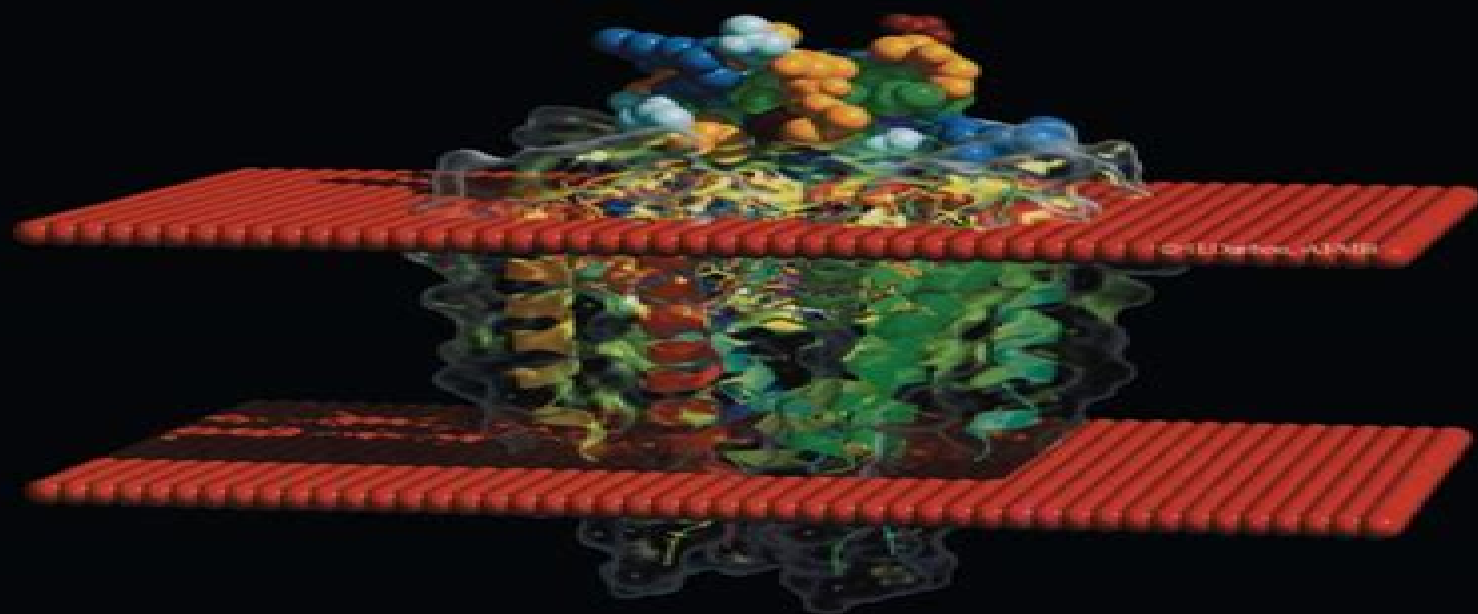


# POTASSIUM CHANNELS IN CARDIOVASCULAR BIOLOGY



Edited by  
Stephen L. Archer and Nancy J. Rusch

# Potassium Channels In Cardiovascular Biology

**Dennis V. Cokkinos**



## **Potassium Channels In Cardiovascular Biology:**

**Potassium Channels in Cardiovascular Biology** Stephen L. Archer, Nancy J. Rusch, 2012-12-06 Potassium channels K are membrane spanning proteins which serve many important functions and are becoming a hot topic in physiology K channels determine or modulate many functions of vascular smooth muscle endothelial and inflammatory cells and thus are central to regulation of arterial tone and control of cell proliferation They are also promising targets for antihypertensive treatments with drugs which open and close specific types of K channels making for an active field of research With their ability to control vascular tone voltage gated K channels play a significant role in both pulmonary and systemic hypertension as well as in cardiac arrhythmias This book will highlight the latest discoveries by leading researchers pertaining to the role of K channels in the heart and blood vessels in normal physiology and a variety of disease states Cardiovascular Biology of Purines Geoffrey Burnstock, James G. Dobson Jr., Bruce T. Liang, Joel Linden, 2012-12-06 Following many years when a great deal of attention was directed towards the intracellular roles of purines there is expanding interest in the field of extracellular purinergic signalling In this book we focus on the actions of purines in cardiovascular biology where it is clear that they play major roles in both normal and pathophysiological conditions Activation of different purinoceptor subtypes by purines can regulate cardiac contractility and electrical activity modulate catecholamine mediated responses both pre and post junctionally trigger and mediate ischaemic preconditioning cause vasodilation and vasoconstriction and enhance endothelial proliferation and apoptosis as well as inhibit platelet and neutrophil function This book covers the cardiovascular actions mediated by the major P1 and P2 subclasses of purinoceptors and emphasizes the interactions between these two signalling systems Cardiovascular Biology of Purines covers topics ranging from molecular and cellular to systemic and clinical It also aims to highlight how basic advances have led to the identification of novel targets for cardiovascular therapeutic developments We hope that our book will prove to be timely and helpful **Ion Channels in the Pulmonary Vasculature** Jason X. J. Yuan, 2005-05-12 This volume presents a global overview of the role of ion flux via transmembrane ion channel proteins in the regulation of pulmonary vascular tone and in the vascular remodeling processes associated with pulmonary vascular disease offering a comprehensive review of the multiple families of ion channels that have been identified and characterized in **Cardiac Repolarization** Ihor Gussak, Charles Antzelevitch, Stephen C. Hammill, Win K. Shen, Preben Bjerregaard, 2003-03-13 A comprehensive review of all the latest developments in cardiac electrophysiology focusing on both the clinical and experimental aspects of ventricular repolarization including newly discovered clinical repolarization syndromes electrocardiographic phenomena and their correlation with the most recent advances in basic science The authors illuminate the basic electrophysiologic molecular and pharmacologic mechanisms underlying ventricular repolarization relate them to specific disease conditions and examine the future of antiarrhythmic drug development based on both molecular and electrophysiological properties They also fully review the clinical presentation and management of specific cardiac

repolarization conditions      **Cardiovascular Pharmacology: Heart and circulation** ,2010-11-26 Cardiovascular disease remains a major cause of death and disability in developed countries and increasingly so in the developing world Presented in this volume of Advances in Pharmacology are some of the most promising possibilities for treating large numbers of individuals afflicted with these conditions Contains up to date reviews of the most important emerging cardiovascular therapies written by world leaders in the field      **Practical Methods in Cardiovascular Research** Stefan Dhein,Friedrich Wilhelm Mohr,Mario Delmar,2006-02-28 Scientists working or planning to work in the field of cardiovascular research will welcome Methods in Cardiovascular Research as the reference book they have been waiting for Not only general aspects of cardiovascular research are well presented but also detailed descriptions of methods protocols and practical examples Written by leading scientists in their field chapters cover classical methods such as the Langendorff heart or working heart models as well as numerous new techniques and methods Newcomers and experienced researchers alike will benefit from the troubleshooting guide in each chapter the extensive reference lists for advanced reading and the great practical experience of the authors Methods in Cardiovascular Research is a must have for anybody with an interest in cardiovascular research      **Encyclopedia of Cardiovascular Research and Medicine** ,2017-11-27 Encyclopedia of Cardiovascular Research and Medicine Four Volume Set offers researchers over 200 articles covering every aspect of cardiovascular research and medicine including fully annotated figures abundant color illustrations and links to supplementary datasets and references With contributions from top experts in the field this book is the most reputable and easily searchable resource of cardiovascular focused basic and translational content for students researchers clinicians and teaching faculty across the biomedical and medical sciences The panel of authors chosen from an international board of leading scholars renders the text trustworthy contemporary and representative of the global scientific expertise in these domains The book s thematic structuring of sections and in depth breakdown of topics encourages user friendly easily searchable chapters Cross references to related articles and links to further reading and references will further guide readers to a full understanding of the topics under discussion Readers will find an unparalleled one stop resource exploring all major aspects of cardiovascular research and medicine Presents comprehensive coverage of every aspect of cardiovascular medicine and research Offers readers a broad interdisciplinary overview of the concepts in cardiovascular research and medicine with applications across biomedical research Includes reputable foundational content on genetics cancer immunology cell biology and molecular biology Provides a multi media enriched color illustrated text with high quality images graphs and tables      **Molecular Biology of Membrane Transport Disorders** Thomas E. Andreoli,A.M. Brown,D.M. Fambrough,Joseph F. Hoffman,Stanley G. Schultz,Michael J. Welsh,2013-11-11 When the six of us gathered to start planning for what was to be the Third Edition of Physiology of Membrane Disorders it was clear that since 1986 when the Second Edition appeared the field had experienced the dawning of a new era dominated by a change in focus from phenomenology to underlying mechanisms propelled by the

power of molecular biology In 1985 detailed molecular information was available for only three membrane transporters the lac permease bacterial rhodopsin and the acetylcholine receptor During the decade that has since elapsed almost all of the major ion channels and transport proteins have been cloned sequenced mutagenized and expressed in homologous as well as heterologous cells Few if any of the transporters that were identified during the previous era have escaped the probings of the new molecular technologies and in many instances considerable insight has been gained into their mechanisms of function in health and disease Indeed in some instances novel unexpected transporters have emerged that have yet to have their functions identified The decision to adopt the new title Molecular Biology of Membrane Transport Disorders was a natural outgrowth of these considerations

**Biomedical Index to PHS-supported Research**, 1995 Advancements in Cardiovascular Research and Therapeutics: Molecular and Nutraceutical Perspectives V. V. Sathibabu Uddand Rao, Parim Brahma Naidu, 2022-10-13 This reference summarizes recent advancements in knowledge about cardiovascular disease and pharmacology The goal of the book is to inform readers about recent findings on cardiovascular therapeutics and how to conduct experiments to evaluate natural products It presents 10 chapters that cover basic clinical research on cardiovascular diseases and therapeutic agents derived from natural sources The book concludes with a series of experiments that demonstrate the methods to test the ameliorative effects of 3 phytochemicals Biochanin A red clover Zingiberene ginger oil and Betaine sugar beet Key Features 10 chapters that highlight recent research cardiovascular medicine and pharmacology Covers knowledge about basic cardiovascular physiology congestive heart failure treatment and the treatment of heart inflammation Covers uses benefits and drawbacks of numerous rodent and non rodent animal models for studying CVD Updates readers about 21st century CRISPR cas9 technology and its uses in CVD Covers the significance of Indian Ayurvedic techniques on the cardiovascular system Covers information about nutraceuticals for CVD therapy Includes experiments to evaluate 3 phytochemicals for the treatment of different heart diseases such as hypertension obesity cardiomyopathy and the mitigation of inflammatory cytokines in myocardial infarction This book is an informative resource for cardiologists and researchers working in the field of cardiovascular pharmacology It also helps readers to understand the benefits of herbal medications that are commonly available for consumption in homes

*Introduction to Translational Cardiovascular Research* Dennis V. Cokkinos, 2014-11-06 The term Translational Research reflects today's integration of basic research bench findings with the clinical practice of medicine and in a wider scope the application of results from the individual patient bedside to entire populations for the improvement of public health This book offers future researchers a stimulus in many aspects of cardiovascular research so as to promote their interest in future fields of cardiovascular disease diagnosis and treatment Introduction to Translational Cardiovascular Research discusses the fundamental and important aspects of the topic It describes the renin angiotensin aldosterone system the beta adrenergic receptors and the hypothalamic pituitary adrenal axis while covering genetic polymorphisms both generally and specifically as regards the vascular endothelium and

the use of microRNAs As such this book will be relevant to young physicians nurses and other scientists engaged in the clinical cardiovascular field who want to added research oriented dimension to their efforts towards better understanding and practicing of medicine It also aims to attract young basic researchers who want to develop a better comprehension of the organism as a whole man or animal that they are investigating

**Reviews and Perspectives in Physiology 2001** The Physiological Society,2001-07-13 This volume brings together the Perspectives and Topical Reviews published during 2000 in The Journal of Physiology with the intention of making their content as accessible as possible to both students and researchers in physiology The Journal of Physiology publishes original research papers that illustrate new physiological principles and mechanisms with an emphasis on human and mammalian physiology It is among the most rapidly published journals in its field and has one of the highest citation indexes in physiology

Emerging Applications, Perspectives, and Discoveries in Cardiovascular Research Malhotra, Ashim,Soni, Shivani,2017-01-25 Scientific developments in recent years have led to significant strides and advancements within the medical field By integrating these findings into medical practice optimal healthcare can be delivered to the public Emerging Applications Perspectives and Discoveries in Cardiovascular Research is a comprehensive reference source for the latest academic material on the exploration of cardiovascular diseases and provides an interdisciplinary examination of novel developments and applications for cardiovascular sciences Highlighting a range of diverse topics such as pharmacology pathophysiology and alternative medicine this book is ideally designed for researchers professionals practitioners graduate students and academics interested in the latest medical advancements

**Cumulated Index Medicus** ,1994 *Current Pharmaceutical Design* ,1995-12 *Cardiac Mechanobiology in Physiology and Disease* Markus Hecker,Dirk J. Duncker,2023-04-19 This book presents the latest findings in the field of cardiac mechanobiology in health and disease Cardiac mechanobiology provides knowledge of all aspects of mechanobiology of the heart Cardiomyogenesis is discussed as well as the mechanobiology of cardiac remodeling and regeneration The molecular mechanisms of mechanoperception and mechanotransduction in cardiomyocytes are explained as well as stretch induced differentiation of cardiomyocytes derived from induced pluripotent stem cells This volume of the series Cardiac and Vascular Biology complements the volume Vascular Mechanobiology in Physiology and Disease volume 8 published in this series The book is aimed at clinicians as well as researchers in cardiovascular biology bioengineering and biophysics and also represents an educational resource for young researchers and students in these fields

**Novel Therapeutic Targets for Antiarrhythmic Drugs** George Edward Billman,2010-01-05 Profiles potential treatment approaches for cardiac arrhythmias Cardiac arrhythmias of ventricular origin are responsible for the deaths of nearly half a million Americans each year while atrial fibrillation accounts for about 2 3 million cases per year at a rate that is projected to increase 2 5 fold over the next half century Effectively managing these cardiac rhythm disorders remains a major challenge for both caregivers and the pharmaceutical industry Filling a gap in the current literature Novel Therapeutic Targets for

Antiarrhythmic Drugs presents the latest treatments for cardiac arrhythmias alongside comprehensive presentations of basic cardiac physiology and pharmacology. Written by leading experts in their research areas, this invaluable resource offers both practitioners and researchers a one-stop guide that brings together previously dispersed information. The text consists of four sections. Section One comprehensively reviews basic cardiac electrophysiology, the mechanisms responsible for arrhythmias in the setting of ischemia, and basic pharmacology of antiarrhythmic drugs. Section Two addresses safety pharmacology, including the concept of repolarization reserve, safety challenges, and regulatory issues for the development of novel antiarrhythmic drugs. Section Three describes several novel pharmacological targets for antiarrhythmic drugs, including both ion channel and non-ion channel targets. Section Four describes promising non-pharmacological antiarrhythmic interventions, including selective cardiac neural disruption or nerve stimulation, aerobic exercise training, and diet omega-3 fatty acids. Offering an unparalleled look at the current state and future direction of cardiac arrhythmia treatment, *Novel Therapeutic Targets for Antiarrhythmic Drugs* provides an important resource to advanced students, working researchers, and busy professionals alike.

*Ion Channels—Advances in Research and Application: 2012 Edition*, 2012-12-26. *Ion Channels Advances in Research and Application 2012 Edition* is a ScholarlyEditions eBook that delivers timely, authoritative, and comprehensive information about Ion Channels. The editors have built *Ion Channels Advances in Research and Application 2012 Edition* on the vast information databases of ScholarlyNews. You can expect the information about Ion Channels in this eBook to be deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed, and relevant. The content of *Ion Channels Advances in Research and Application 2012 Edition* has been produced by the world's leading scientists, engineers, analysts, research institutions, and companies. All of the content is from peer-reviewed sources, and all of it is written, assembled, and edited by the editors at ScholarlyEditions and available exclusively from us. You now have a source you can cite with authority, confidence, and credibility. More information is available at <http://www.ScholarlyEditions.com>.

Biomedical Index to PHS-supported Research: pt. A. Subject access A-H, 1994. 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.

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