



Endotheliumdependent Hyperpolarizations

**E. Kenneth Weir, Joseph R. Hume, John
T. Reeves**



Endotheliumdependent Hyperpolarizations:

Endothelium-dependent Hyperpolarization and Relaxation of Vascular Smooth Muscle Peter Zygmunt, 1995

Endothelium-Dependent Hyperpolarizations Paul M. Vanhoutte, 2000-10-31 The existence of endothelium dependent hyperpolarization and endothelium derived hyperpolarizing factor was firmly established during 1995 at an international symposium held near Paris France This further volume reinforces the concept that EDHF as opposed to nitric oxide NO is of particular importance in smaller blood vessels and in addition underlines the multiplicity of other factors involved

Endothelium Dependent Hyperpolarizations will be of interest not only to physiologists and pharmacologists puzzling over the complexity of interactions between the endothelium and the underlying smooth muscle cells but also clinical researchers and physicians treating patients with cardiovascular diseases Endothelium-Derived Hyperpolarizing Factor Paul M.

Vanhoutte, 1996-12-13 **Pharmacological Control of Calcium and Potassium Homeostasis** T. Godfraind, G.

Mancia, M.P. Abbracchio, L. Aguilar-Bryan, S. Govoni, 2012-12-06 As the number of drugs acting on calcium and potassium channels grows there is a need for a continuous reappraisal of the cellular machinery controlling them The present volume provides an update on the basic knowledge the molecular targets of the two channels and the importance the drugs that bind them have as pharmacological tools and therapeutic agents This work was presented at the 6th International Symposium on PHARMACOLOGICAL CONTROL OF CALCIUM AND POTASSIUM HOMEOSTASIS BIOLOGICAL THERAPEUTICAL AND CLINICAL ASPECTS in Florence Italy on October 4-6 1994 Because of the recent advances in the field discussions on potassium channels were included for the first time At least six classes of voltage dependent calcium channels have been defined based on their physiological and pharmacological properties Among them L type channels mediating long lasting currents are better characterized Calcium homeostasis within the cell is not only regulated by calcium channels intracellular calcium stores in particular a pool contained in the lumen of specialized areas of the endoplasmic reticulum are rapidly exchanged with the cytoplasm and play a key role in the control of calcium homeostasis This area however has not yet been exploited from a therapeutic point of view Potassium channels are present in virtually every cell type excitable and nonexcitable and are distinguished by structural biophysical and pharmacological criteria Different classes including voltage gated ligand gated AP sensitive and G protein coupled among others have been defined by their primary regulatory and gating mechanisms **The Endothelium, Part II** Michel Félétou, 2011-05-01 The endothelium controls vascular tone by releasing various vasoactive substances Additionally another pathway associated with the hyperpolarization of both

endothelial and vascular smooth muscle cells contributes also to endothelium dependent relaxations EDHF mediated responses These responses involve an increase in the intracellular Ca concentration of the endothelial cells followed by the opening of Ca activated K channels of small and intermediate conductances SKCa and IKCa These channels show a distinct subcellular distribution suggesting that their activation could be elicited by distinct stimuli Following KCa activation the

endothelial hyperpolarization can be conducted to the underlying smooth muscle cells by electrical coupling through myo endothelial gap junctions In addition the potassium efflux can lead to the accumulation of potassium ions in the intercellular space and the subsequent activation of smooth muscle Kir2.1 and/or Na/K ATPase The hyperpolarization of the smooth muscle cells produces vascular relaxation predominantly by closing voltage gated calcium channels and vasodilatation EDHF mediated responses are altered in various pathologies or conversely act as a compensating mechanism when other endothelial pathways are impaired A better characterization of EDHF mediated responses should allow determining whether or not new drugable targets can be identified within this endothelial pathway for the treatment of cardiovascular diseases

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Nitric Oxide and the Cardiovascular System Joseph Loscalzo, Joseph A. Vita, 2000-03-29 Leading clinical and experimental investigators comprehensively review the chemistry/biochemistry/molecular biology/physiology and pathophysiology of nitric oxide in the cardiovascular systems These experts particularly illuminate nitric oxide biology its cardiovascular pathophysiology and its role in cardiovascular therapeutics Topics also included are the development of nitric oxide donors for the treatment of myocardial ischemia and thrombosis the development of gene therapeutic restoration of endothelial function in atherosclerosis and the application of nitric oxide biology to investigative arenas in cardiovascular medicine With its balanced presentation of basic and clinically relevant information Nitric Oxide and the Cardiovascular System provides a comprehensive authoritative guide for all those cardiovascular biologists cardiologists physiologists and cardiovascular surgeons engaged in today's clinical or experimental research

Potassium Channels in Cardiovascular Biology Stephen L. Archer, Nancy J. Rusch, 2001-05-31 Potassium channels K are membrane spanning proteins which serve many important functions and are a hotly debated topic in physiology This book highlights the latest discoveries on the role of K channels in the heart and blood vessels in normal physiology and a variety of disease states

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

Ion Flux in Pulmonary Vascular Control E. Kenneth Weir, Joseph R. Hume, John T. Reeves, 2012-12-06 6 Ions can pass through a single membrane channel at a rate of 10 ions/second Over the last decade the ability to measure ion flux so precisely and to document the opening and closing of individual ion channels has provided a powerful tool to those working on smooth muscle physiology and vascular reactivity The use of potassium channel blockers by Tom Lloyd in the 1960s and calcium channel blockers by Ivan McMurry in the 1970s indicated the importance of ion flux in regulating pulmonary vascular tone Recent advances in technology principally the patch clamp technique and fluorescent ion sensitive dyes now permit a more detailed description of physiologic mechanisms This volume arises from the Sixth Grover Conference on the Pulmonary Circulation a NATO Advanced Research Workshop held in Colorado in October 1992 A group of international scientists who are leaders in the field of ion flux focused their attention on the problems of the pulmonary vasculature The chapters in this book describe the

present state of knowledge of the movement and storage of ions in vascular endothelial and smooth muscle cells Those who are not familiar with the techniques of patch clamping and calcium imaging will find an introduction to these methods in the chapters by Leblanc and Wan and Archer et al The role of potassium channels in oxygen sensing illustrates the rapid progress which the study of ion currents has made possible

Platelets in Thrombotic and Non-Thrombotic Disorders Paolo Gresele, 2002-05-30 Platelets have become an important research target for clinicians and basic scientists in a range of medical disciplines This book reviews current science and applications in fields including thrombosis and hemostasis signal transduction and non thrombotic conditions such as inflammation allergy and tumor metastasis It is a detailed up to date highly referenced text for clinical scientists and physicians including recent developments in this rapidly expanding field It will be an essential reference for biomedical scientists and clinicians in hematology vascular medicine cardiology thrombosis and related disciplines

Microvascular Research: Biology and Pathology, Two-Volume Set David Shepro, 2005-11-03 The microvasculature refers to the smallest blood vessels arterial and venous that nurture the tissues of each organ Apart from transport they also contribute to the systematic regulation of the body In everyday terminology the microcirculation is where the action is Microcirculation is directly involved in such disease states as Alzheimers inflammation tumor growth diabetic retinopathy and wound healing plus cardiovascular fitness is directly related to the formation of new capillaries in large muscles Microvascular Research is the first book devoted exclusively to this vital systemic component of the cardiovascular system and provides up to date mini reviews of normal functions and clinical states The contributing authors are senior scientists with international reputation in their given disciplines This two volume set is a broad interdisciplinary work that encompasses basic research and clinical applications equally Broad coverage of both basic and clinical aspects of microvasculature research Contains 167 chapters from over 300 international authors Each chapter includes key figures and annotated references

EDHF Michel Feletou, Paul Vanhoutte, 2005-11-02 The advances made in vascular biology in the last 25 years have considerably changed the perception that one could have of the endothelial cells Once considered as a diffusion barrier preventing the access of the blood cells to the vascular matrix the endothelium is now recognized as playing a major role in the control of blood fluidity platelet aggregation and vascular tone but also in immunology inflammation angiogenesis and for serving as a metabolizing and an endocrine organ from the preface Cardiovascular diseases so prevalent in the Western world during the twentieth century could well become the scourge of the twenty first century in emerging countries as well as the West Endothelial dysfunction linked to an imbalance in the synthesis and or release of contracting and relaxing factors is often evoked to explain the initiation of the cardiovascular pathology or its development and perpetuation Two decades ago when nitric oxide was demonstrated to mediate endothelium dependent relaxations the vascular world seemed convinced that nitric oxide was the ultimate and sole explanation for such relaxations However not everyone agreed *EDHF* The Complete Story is the work of two leading researchers who did not accept that simple conclusion

but instead continued to search along with others for a deeper understanding of the ways in which endothelial cells communicate with the underlying smooth muscle to signal it to hyperpolarize. Now with most if not all of those ways uncovered, the authors offer this summary as a way of bringing closure to the quest. This monograph reports on the work of many researchers. It summarizes the significant recent discoveries concerning endothelium dependent hyperpolarizations which are likely to play a much more important role in cardiovascular physiology and pathology than was originally foreseen. Extensively illustrated with original diagrams and schematics that summarize the different steps of endothelium dependent hyperpolarization, the text is designed for vascular biologists and cardiologists as well as graduate students looking to gain an understanding of the intimate functioning of the blood vessel wall. *Edhf 2000* Paul M. Vanhoutte, 2003-09-02

Understanding the nature and role of endothelium derived hyperpolarizing factor appears to be crucial in the quest for improved treatments for hypertension, diabetes, ischemia, reperfusion and other vascular disorders. EDHF 2000 comprises the proceedings of the Third International Symposium on endothelium dependent hyperpolarizations. The first two days were devoted to Reviews of Physiology, Biochemistry and Pharmacology. M. P. Blaustein, H. Grunicke, E. Habermann, D. Pette, H. Reuter, B. Sakmann, M. Schweiger, E. M. Wright, 2006-04-11. P. J. Pearson, P. M. Vanhoutte. Vasodilator and Vasoconstrictor Substances Produced by the Endothelium. L. Dux. Muscle Relaxation and Sarcoplasmic Reticulum Function in Different Muscle Types. C. C. Ashley, P. J. Griffith, T. J. Lea, I. P. Mulligan, R. E. Palmer and S. J. Simnett. Barnacle Muscle Ca^{2+} Activation and Mechanics. *Edhf 2002* Paul M.

Vanhoutte, 2001-11-29. Understanding the nature and role of endothelium derived hyperpolarizing factor is crucial in the quest for improved treatments for hypertension, diabetes, ischemia, reperfusion and other vascular disorders. EDHF 2002 is based on the proceedings of the Fourth International Symposium on endothelium dependent hyperpolarizations. It will be of interest not only to physiologists and pharmacologists puzzled by the complexity of the interactions between the endothelium and underlying vascular smooth muscle cells but also clinical researchers and physicians treating patients with cardiovascular diseases.

Diabetes and Cardiovascular Disease Michael Johnstone, Aristidis Veves, 2023-06-01. This third edition of the book offers an up to date review of Diabetes Mellitus with a focus on both Micro and Macrovascular Disease. The text includes a review of the basic concepts of Diabetes and Vascular Disease including Endothelial Dysfunction, The Effect of Insulin on the Vascular System, The Mechanism of Atherosclerosis in Diabetes Mellitus and the Role of Inflammation on the Vascular Tree and The Role of the Renin Angiotensin Aldosterone System on Diabetes Mellitus. Chapters will discuss the Genetics of Type 2 Diabetes Mellitus as well as the Metabolic Syndrome. Other chapters discuss the Risk Factors of Diabetes and Vascular Disease including Hypertension, Dyslipidemia and Thrombosis. The book also reviews Microcirculation, Diabetic Nephropathy, Diabetic Retinopathy as well as the Epidemiology, Diagnosis and Treatment of Peripheral Vascular Disease, Diabetes and Coronary Artery Disease, Diabetes and Percutaneous Interventions, Diabetes and Cardiac Surgery and Diabetes and Heart Failure. Chapters conclude with a review of the present day Treatment of the Diabetic Patient. Diabetes and

Cardiovascular Disease 3rd Edition offers practicing physicians a cutting edge scientific and clinical review of diabetic cardiovascular disease providing both a deeper understanding of its pathology and all the day to day practical knowledge needed to treat patients effectively *Atherosclerosis, Hypertension and Diabetes* Grant N. Pierce, Makoto Nagano, Peter Zahradka, Naranjan S. Dhalla, 2012-12-06 This volume is devoted to atherosclerosis hypertension and diabetes three of the most important disease conditions in the world today Nutritional intervention cholesterol lowering agents lipids themselves particularly oxidized LDL protein modification by ADP ribose bone marrow study endothelial cell dysfunction angiotensin and the role of infection and inflammation are all discussed in the context of atherosclerotic cardiovascular disease The hypertension section focuses on factors that may be responsible for high blood pressure such as genetic predisposition vascular hyperplasia and remodeling insulin resistance neurological aspects such as hypothalamic peptides Also discussed are the possible contributions of the cellular function of the endothelium nutrition kidney dysfunction leptin and the brain Novel routes of drug delivery for treatment of hypertension is also a focus The risk factors and mechanisms responsible for diabetic vascular and cardiac dysfunction are discussed Lipid profile changes and fibrinolysis in diabetic patients is detailed along with adipogenesis diabetic cardiomyopathy energy metabolism in the diabetic heart vanadate as an alternative to insulin insulin resistance mechanisms and neurotransmitters as targets for the prevention of cardiovascular disease and diabetes Pharmacology and Therapeutics in the New Millennium S.K. Gupta, 2001-09-30 During the past several years tremendous advancements have been made in the field of pharmacology and therapeutics While new therapeutic strategies are coming up old ones are being improved by modifications or being replaced with newer ones The major topics covered in this book include endothelins current topics in cardiovascular research molecular pharmacology recent developments in cancer research antioxidants oxidants and human disease herbal drugs developments in neuropharmacology myelin biology and demyelinating disease pharmacovigilance role of cytokines in health and disease ocular pharmacology detoxification of xenobiotics biotransformation and transport and several other topics of current interest The aim of this book is to fulfill the needs of the basic and clinical researchers as well as the students particularly related to areas of current interest in pharmacology and therapeutics **Membranes in Pulmonary Vascular Disease**, 2018-10-22 Membranes in Pulmonary Vascular Disease Volume 82 the latest release in the Current Topics in Membranes series highlights new advances in the field with this new volume presenting interesting chapters from recognized experts on topics such as Sphingolipids in Vascular Lung Disease Endothelial Glycocalyx Cholesterol Regulation of Endothelial Cell Calcium Homeostasis in Pulmonary Hypertension Mechanosensitive Channels and Gap Junction Channels in EC Endothelial Protrusions in Junctional Integrity and Barrier Function Cortical Actin Dynamics in Endothelial Permeability Endothelial Microparticles and Exosomes Store Operated TRP Channels and Endothelial Responses and Caveolin and Endothelial NO signaling Provides the authority and expertise of leading contributors from an international board of authors Presents the latest release in the Current Topics in

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