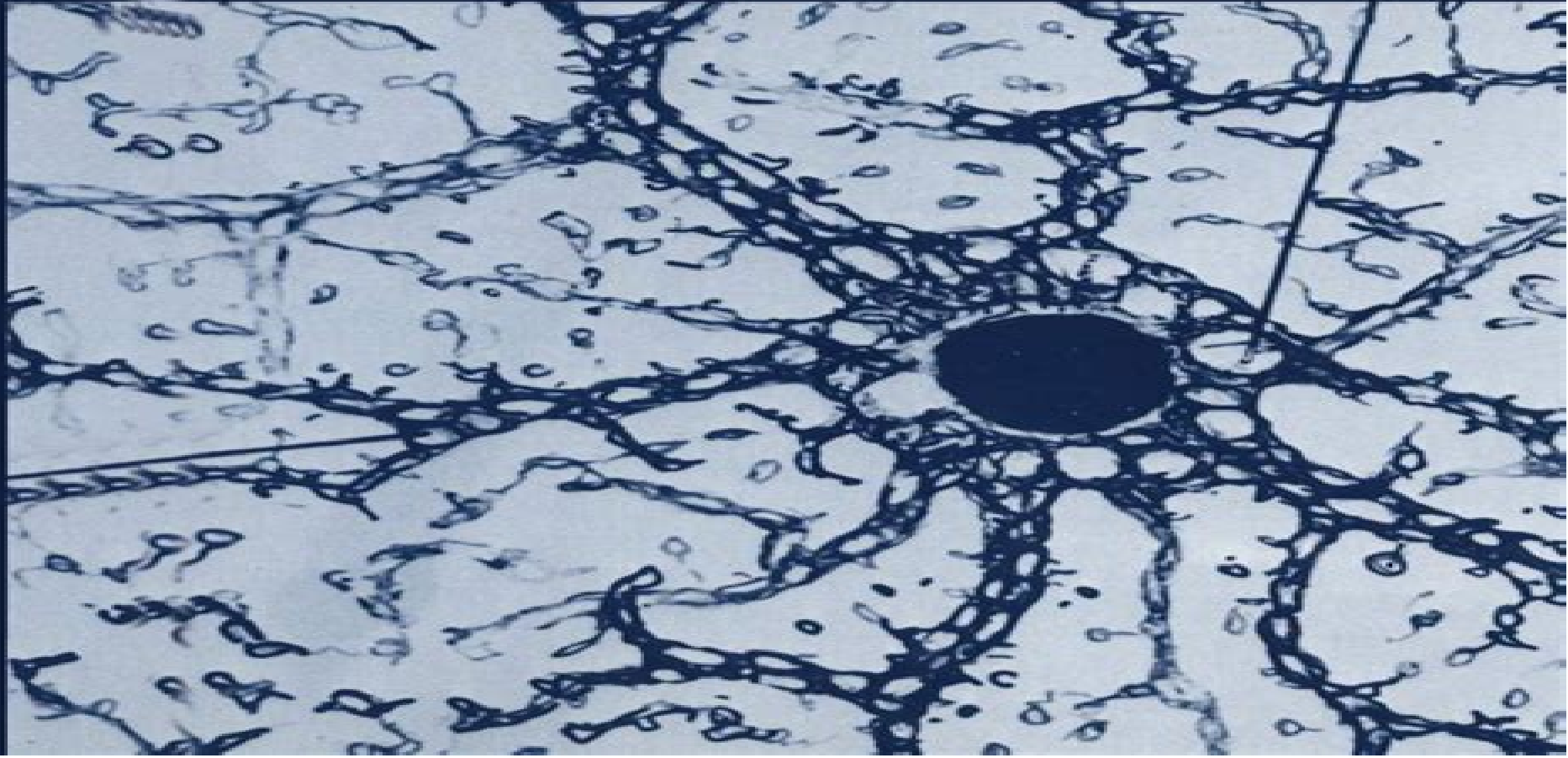


Chloride Channels and Carriers in Nerve, Muscle, and Glial Cells

Edited by

F. J. Alvarez-Leefmans and John M. Russell



Chloride Channels And Carriers In Nerve Muscle And Glial Cells

Nick Sperelakis



Chloride Channels And Carriers In Nerve Muscle And Glial Cells:

Chloride Channels and Carriers in Nerve, Muscle, and Glial Cells F.J. Alvarez-Leefmans, John M. Russell, 2013-06-29

This is a book about how Cl crosses the cell membranes of nerve muscle and glial cells Not so very many years ago a pamphlet rather than book might have resulted from such an endeavor One might ask why Cl the most abundant biological anion attracted so little attention from investigators The main reason was that the prevailing paradigm for cellular ion homeostasis in the 1950s and 1960s assigned Cl a thermodynamically passive and unspecialized role This view was particularly prominent among muscle and neuroscience investigators In searching for reasons for such a negative no pun intended viewpoint it seems to us that it stemmed from two key experimental observations First work on frog skeletal muscle showed that Cl was passively distributed between the cytoplasm and the extracellular fluid Second work on Cl transport in red blood cells confirmed that the Cl transmembrane distribution was thermodynamically passive and in addition showed that Cl crossed the membrane extremely rapidly This latter finding for a long time interpreted as being the result of a high passive chloride electrical permeability made it quite likely that Cl would remain at thermodynamic equilibrium These two observations were generalized and virtually all cells were thought to have a very high P_{Cl} and a thermodynamically passive Cl transmembrane distribution These concepts can still be found in some physiology and neuroscience textbooks

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

Cell Physiology Sourcebook F. Javier Alvarez-Leefmans, Eric Delpire, 2025-12-19 Written by leading experts in the field the fifth edition of the Cell Physiology Sourcebook Fifth Edition offers a critical comprehensive and multidisciplinary overview of essential aspects of cell physiology and biophysics spanning from bacterial and archaeal cells to mammalian cells and tissues The present edition incorporates new molecular insights without losing the integrative perspective of cell physiology and biophysics as well as its foundational concepts Our target readers are advanced students and researchers interested in understanding how cells work The history of this book goes back to Hugh Davson's classic A Textbook of General Physiology which reached its fourth and last edition in 1970 The successor of this influential work was Cell Physiology Sourcebook first published in 1995 and edited by the late Professor Nicholas Sperelakis with a foreword written by Davson At that time the knowledge of molecular and cell physiology became so vast that a single author's work like its predecessor was materially impossible Professor Sperelakis for whom we dedicate the present edition put together an impressive volume with the contribution of various experts in fundamental areas of the field until the 4th edition published in 2012 one year before his death This book's success and the gap it fills motivated the present editors to continue this project updating the entire book to reflect new developments Authored by leading experts in the field Illustrated with high quality color images A valuable resource for researchers and students in biomedical sciences covering fundamental and advanced cellular and molecular physiology and biophysics topics The book's content reflects current trends and developments in the field making it an essential read for those seeking a deeper understanding of cell function Clear concise and comprehensive the Cell Physiology Sourcebook is designed to complement medical physiology and biology textbooks It provides a deeper dive into key concepts making it an invaluable resource for students and researchers in biomedical sciences *Cell Physiology Source Book* Nick Sperelakis, 2012-01-11 Cell Physiology Source Book gathers together a broad range of ideas and topics that define the field It provides clear concise and comprehensive coverage of all aspects of cellular physiology from fundamental concepts to more advanced topics The 4e contains substantial new material Most chapters have been

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Neuroglia Helmut Kettenmann, Bruce R. Ransom, 2004-09-30 Neuroglia is the only comprehensive reference book on the basic biology and function of glial cells This long awaited second edition has been completely reorganized and rewritten to include the dramatic advances in this field since the first edition was published ten years ago The impact of the second edition will be greater than that of the first because the majority of neuroscientists now acknowledge that neuroglia are elemental to most if not all brain functions The second edition covers the entire field of glial research from the basic molecular and cellular principles of these cells to their involvement in neurological diseases including stroke Alzheimer's disease and multiple sclerosis It includes new chapters on transmitter release from exocytosis from glia glia derived stem cells glia and synaptic transmission glia and axon guidance an entirely new section on mechanisms of glial injury and several new chapters on the roles of glia in different diseases The new edition was written with both students and experts in mind It provides a basic introduction to the entire range of glial topics and detailed information with critical assessment of the research literature Neuroscience textbooks focus on the properties of neurons whereas this book fills the information void about the brain's other cells Neuroglia Second Edition is an essential reference source for newcomers including graduate students to neuroanatomy neurochemistry neurophysiology and molecular neurobiology It is also a vital companion for established researchers in these fields as well as clinicians in neurology neurosurgery psychiatry neuropathology and neuro oncology

Cell Physiology Sourcebook Nicholas Sperelakis, 2001-05-15 This completely revised and updated source book provides comprehensive and authoritative coverage of cell physiology and membrane biophysics Intended primarily as a text for advanced undergraduate and graduate students and as a reference for researchers this multidisciplinary book includes several new chapters and is an invaluable aid to scientists interested in cell physiology biophysics cell biology electrophysiology and cell signaling Includes broad coverage of both animal and plant cells Appendices review basics of the propagation of action potentials electricity and cable properties

Transmitter Amino Acid Receptors Eric A. Barnard, Erminio Costa, 1991

Handbook of Membrane Channels Camillo Peracchia, 1994 This handbook provides a

thorough account of recent directions in membrane channel research Each subject is covered in terms of channel biophysics pharmacology and molecular biology The introductory chapter reviews methodologies of molecular biology currently used for studying molecular structure and function of membrane channels and specific domains in channel proteins

Measurement and Manipulation of Intracellular Ions Jacob Kraicer, Samuel Jeffrey Dixon, 1995 **Current Topics in Membranes**, 1994 The Cumulative Book Index, 1991 A world list of books in the English language **Anionic Permeability of the Liver ER Membrane** Ashutosh Tripathy, 1993 **The Mechanism of GABAA Receptor Mediated Inhibition in Secretory Nerve Terminals** Shuanglin John Zhang, 1993 *Synapse, Transmission, Modulation* Norbert Elsner, Heinz Penzlin, 1991 **Gaba Mechanisms in Epilepsy** Godfrey Tunicliff, Beat U. Raess, 1991-10-24 This comprehensive book is based on a series of excellent articles written by experts that review analyze and discuss a variety of compelling lines of evidence which point to the idea that the inhibitory capacity of the central nervous system represented by GABA mediated neurotransmission is altered in certain convulsive disorders Each chapter begins with specialized topical reviews to lay the foundation for the ensuing material Topics include the role of GABA in CNS function clinical aspects of the epilepsies involvement of GABA in models of epilepsy the rationale for the use of GABA mimetics as anticonvulsants future anticonvulsant therapy and much more Energy Metabolism in Exercise and Sport David R. Lamb, Carl V. Gisolfi, 1992 **Canadian Journal of Physiology and Pharmacology**, 1992 **The Journal of Experimental Biology**, 1997 **Practical Electrophysiological Methods** Helmut Kettenmann, Rosemarie Grantyn, 1992-11-11 Designed to enable newcomers to electrophysiology to choose appropriate preparations and techniques for in vitro studies in vertebrate neurobiology Emphasizes techniques involving the glass micropipette and other recently developed methods supplementing easy to follow instructions with illustrative schemes examples of original records photomicrographs key word listings comprehensive reference tables and a list of suppliers and key equipment and reagents

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