
PROTON PASSAGE ACROSS CELL MEMBRANES

Proton Passage Across Cell Membranes

Eva Sykova

A decorative red circular graphic with a gradient, appearing as a semi-circle or a stylized 'C' shape, located to the right of the author's name.

Proton Passage Across Cell Membranes:

Proton Passage Across Cell Membranes Gregory R. Bock, Joan Marsh, 2008-04-30 Regulation of intracellular pH is vital to all living cells This symposium covers the control of pH in muscle and nerve cells and the different mechanisms of acid transport across epithelial and other cell membranes Papers describe the development and application of microelectrodes and various techniques in molecular biology to the study of the mechanisms of protein transport Also discusses the significance of pH regulation for the action of hormones and growth factors

Ionic and Volume Changes in the Microenvironment of Nerve and Receptor Cells Eva Sykova, 2012-12-06 Stability of the internal environment in which neuronal elements are situated is unquestionably an important prerequisite for the effective transmission of information in the nervous system During the past decade our knowledge on the microenvironment of nerve cells has expanded The conception that the microenvironment of neurones comprises a fluid with a relatively simple and stable composition is no longer accepted the microenvironment is now envisaged as a dynamic structure whose composition shape and volume changes thereby significantly influencing neuronal function and the transmission of information in the nervous system The modern conception of the neuronal microenvironment is based on the results of research over the last 20 years The extracellular space ECS is comprehended not only as a relatively stable microenvironment containing neurones and glial cells Bernard 1878 but also as a channel for communication between them The close proximity of the neuronal elements in the CNS and the narrowness of the intercellular spaces provides a basis not only for interaction between the elements themselves but also between the elements and their microenvironment Substances which can cross the cell membranes can easily find their way through the microenvironment to adjacent cellular elements In this way the microenvironment can assure non synaptic communication between the relevant neurones Signalization can be coded by modulation of the chemical composition of the ECS in the vicinity of the cell membrane and does not require classic connection by axones dendrites and synapses

Oxygen Transport to Tissue XII J. Piiper, 2013-03-09 The International Society on Oxygen Transport to Tissue ISOTT was founded in 1973 to facilitate the exchange of scientific information among those interested in any aspect of the transport and or utilization of oxygen in tissues Its members span virtually all disciplines extending from various branches of clinical medicine such as anesthesiology ophthalmology and surgery through the basic medical sciences of physiology and biochemistry to most branches of the physical sciences and engineering The seventeenth annual meeting of ISOTT was held in 1989 for four days from July 21 to 24 at the Max Planck Institute for Experimental Medicine and the adjoining University Hospital Klinikum in Goettingen Federal Republic of Germany It attracted 147 active registrants and approximately 40 accompanying persons The very successful format originated by Dr Ian Longmuir in 1985 consisting of posters accompanied by an abbreviated oral summary was continued with slight modification Virtually all of the presentations utilized this format with each poster session preceded by a formal discussion during which the presenter

briefly reviewed the poster aided by a few slides All posters remained in place for the entire four days of the meeting

Mechanisms of Systemic Regulation: Acid–Base Regulation, Ion-Transfer and Metabolism Norbert Heisler, 2012-12-06 **Cellular and Molecular Approaches to Fish Ionic Regulation**, 1995-07-17 Many physiological processes are regulated by the movement of ions into and out of organs tissues and cells During the past decade a variety of new techniques and approaches have contributed to a deeper understanding of the myriad influences ions have on the function and structure of organisms From respiration and excretion to neurological control and metabolic processing ions and their regulation occupy a central role in physiology of fish as well as other organisms Comprehensive update of ionic regulation in fish Focuses on wide variety of organ systems and the influence of ions on organ system function Contributions from an international group 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 Cl 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 Nutritional Biochemistry Tom Brody, 1999 This real world approach allows students to come away with a realistically informed view of the basis for much of our understanding of nutritional biochemistry **The Ischemic Heart** Seibu Mochizuki, Nobuakira Takeda, Makoto Nagano, Naranjan S. Dhalla, 2007-11-23 Over the past three decades impressive progress in the field of pathogenesis prevention and therapy of ischemic heart disease has resulted in a marked decline in mortality in the Western World However the incidence of this devastating disease is on the rise in developing countries The Ischemic Heart is based upon a recent symposium in Tokyo on the subject This volume is organized into two sections i Pathophysiologic Mechanisms of Ischemia Reperfusion Injury and ii Preconditioning and Protection of Ischemia Reperfusion Injury and contains up to date information concerning the current concepts of ischemia reperfusion injury the sequence of events resulting in the loss of contractile dysfunction and mechanisms of cardioprotection by several drugs as

well as the role of ischemic preconditioning in attenuating problems associated with ischemia reperfusion injury **Airways**

Smooth Muscle: Peptide Receptors, Ion Channels and Signal Transduction David Raeburn, Mark A. Giembycz, 2012-12-06

Motility of Living Cells P. Cappuccinelli, 2012-12-06 Philosophers through the ages have made the astute observation that life in its many aspects appears to be continuously moving All things in the universe from the cosmic to the atomic level exhibit some form of movement Getting down to earth the capacity to move is also an essential feature of the biological world Movement was in fact synonymous with life at the time that Antony van Leeuwenhoek made the first simple microscope seventeenth century Using his primitive instrument he observed micro organisms which he called animalcules swimming through a drop of water and therefore he proclaimed that they seem to be alive We now know that movement in this form is not a prerequisite for life although it is a crucial aspect in many living organisms Realizing the general importance of motility in the biological world this book will try to focus on the motility at a cellular level Motility at a cellular level can take one of several forms movement of components within the cell itself or movement of the cell as a whole cell locomotion

Triglyceride, High Density Lipoprotein, and Coronary Heart Disease Naomi Miller, 1992 This bibliography is organized into sections on background relationship of high density lipoprotein triglyceride and coronary heart disease genetics and genetic syndromes secondary causes of high triglyceride and low high density lipoprotein measurement of high density lipoprotein and triglyceride evidence from clinical trials approach to high triglyceride and low high density lipoprotein and monographs

Cell Physiology Source Book Nicholas Sperelakis, 2011-11-29 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 thoroughly reworked The book includes chapters on important topics such as sensory transduction the physiology of protozoa and bacteria and synaptic transmission Authored by leading researchers in the field Clear concise and comprehensive coverage of all aspects of cellular physiology from fundamental concepts to more advanced topics Full color illustrations

Encyclopedia of Nonlinear Science Alwyn Scott, 2006-05-17 In 438 alphabetically arranged essays this work provides a useful overview of the core mathematical background for nonlinear science as well as its applications to key problems in ecology and biological systems chemical reaction diffusion problems geophysics economics electrical and mechanical oscillations in engineering systems lasers and nonlinear optics fluid mechanics and turbulence and condensed matter physics among others

Current Bibliographies in Medicine , 1988 *Bioinorganic Chemistry* Rosette M. Roat-Malone, 2007-10-05 An updated practical guide to bioinorganic chemistry Bioinorganic Chemistry A Short Course Second Edition provides the fundamentals of inorganic chemistry and biochemistry relevant to understanding bioinorganic topics Rather than striving to provide a broad overview of the whole rapidly expanding field this resource provides essential background material followed by detailed information on selected topics The goal is to give readers the

background tools and skills to research and study bioinorganic topics of special interest to them This extensively updated premier reference and text Presents review chapters on the essentials of inorganic chemistry and biochemistry Includes up to date information on instrumental and analytical techniques and computer aided modeling and visualization programs Familiarizes readers with the primary literature sources and online resources Includes detailed coverage of Group 1 and 2 metal ions concentrating on biological molecules that feature sodium potassium magnesium and calcium ions Describes proteins and enzymes with iron containing porphyrin ligand systems myoglobin hemoglobin and the ubiquitous cytochrome metalloenzymes and the non heme iron containing proteins aconitase and methane monooxygenase Appropriate for one semester bioinorganic chemistry courses for chemistry biochemistry and biology majors this text is ideal for upper level undergraduate and beginning graduate students It is also a valuable reference for practitioners and researchers who need a general introduction to bioinorganic chemistry as well as chemists who want an accessible desk reference

Practitioner's Guide to Psychoactive Drugs for Children and Adolescents John S. Werry, Michael G. Aman, 2013-11-11 information This book aims to do this for practitioners professionals in health welfare and education and interested laypersons including parents This is no easy task since the levels of technical knowledge vary from that of the special education teacher seeking information about the drugs that many such pupils will be receiving to that of the modern young child and adolescent psychiatrist whose grasp of the difficult fields of pharmacokinetics how drugs are absorbed distributed and eliminated and neurotransmitter physiology via which most psychoactive drugs work is daunting to the editors who grew up in the bucolic clinical empirical era Inevitably there are sections of the book that will prove too technical for any except the medically qualified but considerable effort has been applied to make much of the text especially that discussing the clinical uses and side effects of the drugs comprehensible to anyone used to getting information by reading We also take comfort in the fact that many of the major contributions in pediatric psychopharmacology have been made by nonmedical professionals notably psychologists suggesting that an audience beyond the medically qualified is practicable One other problem confronted us whether to organize the book by psycho pathological symptoms e g hyperactivity and disorders e g autism or by drugs

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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 thoroughly reworked The book includes chapters on important topics such as sensory transduction the physiology of protozoa and bacteria and synaptic transmission Authored by leading researchers in the field Clear concise and comprehensive coverage of all aspects of cellular physiology from fundamental concepts to more advanced topics Full color illustrations

Pharmacology Richard Finkel (PharmD.), Michelle Alexia Clark, Luigi X. Cubeddu, 2009 Lippincott s Illustrated Reviews

Pharmacology Fourth Edition enables rapid review and assimilation of large amounts of complex information about the essentials of medical pharmacology Clear sequential pictures of mechanisms of action actually show students how drugs work instead of just telling them As in previous editions the book features an outline format over 500 full color illustrations cross references to other volumes in the series and over 125 review questions Content has been thoroughly updated and a new chapter covers toxicology New to this edition will be a companion Website containing all of the illustrations fully searchable text and an interactive question bank **Cumulated Index Medicus** ,1989

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