



# Proton And Calcium Pumps

**Harvey Lodish**



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The Proton and Calcium Pumps: Proceedings of the International Symposium on Mechanisms of Proton and Calcium Pumps Held in Padova, Italy, 1977 International Symposium on Mechanisms of Proton and Calcium Pumps,1978   **The Proton and Calcium Pumps** G. F. Azzone,1978   **The Proton and Calcium Pumps** G. F. Azzone,M. Avron,J. C. Metcalfe,E. Quagliariello,N. Siliprandi,1978   THE PROTON AND CALCIUM PUMPS- PAPERS PRESENTED AT THE INTERNATIONAL SYMPOSIUM ON MECHANISMS OF PROTON AND CALCIUM PUMPS. ,   **The Proton and Calcium Pumps** G. F. Azzone,1978   *The Proton and Calcium Pumps* Mordhay Avron,G. F. Azzone,1978   Channels, Carriers, and Pumps Wilfred D. Stein,Thomas Litman,2014-12-09 An introduction to the principles of membrane transport How molecules and ions move across the cell membrane by simple diffusion and by making use of specialized membrane components channels carriers and pumps The text emphasizes the quantitative aspects of such movement and its interpretation in terms of transport kinetics Molecular studies of channels carriers and pumps are described in detail as well as structural principles and the fundamental similarities between the various transporters and their evolutionary interrelationships The regulation of transporters and their role in health and disease are also considered Provides an introduction to the properties of transport proteins channels carriers and pumps Presents up to date information on the structure of transport proteins and on their function and regulation Includes introductions to transport kinetics and to the cloning of genes that code transport proteins Furnishes a link between the experimental basis of the subject and theoretical model building   **Molecular Mechanisms of Water Transport Across Biological Membranes** Wilfred D. Stein,Thomas Zeuthen,2002-04-02 International Review of Cytology presents current advances and comprehensive reviews in cell biology both plant and animal Authored by some of the foremost scientists in the field each volume provides up to date information and directions for future research This volume looks at water movements from a wide range of levels It examines how water interacts with the major components of the cell including proteins and lipids It discusses how water moves across cell membranes by diffusion how it is channelled across these membranes or in certain cases pumped across and how water movements are controlled This book demonstrates how water and ion movements are closely linked in order to provide a better understanding of their behavior Essential Physical chemistry of water at biological interfaces Up to date reviews of water behavior in cells Water in integrated systems Current information on water channels across membranes   Molecular Cell Biology Harvey Lodish,2004 The fifth edition provides an authoritative and comprehensive vision of molecular biology today It presents developments in cell birth lineage and death expanded coverage of signaling systems and of metabolism and movement of lipids   **Herb, Nutrient, and Drug Interactions** Mitchell Bebel Stargrove,Jonathan Treasure,Dwight L. McKee,2007-12-06 Presenting detailed evidence based coverage of the most commonly encountered therapeutic agents in modern clinical practice this resource is designed to help you safely and effectively integrate herbal nutrient and drug therapy for your patients or clients

Combining pharmaceuticals with herbs or supplements may complement or interfere with a drug's therapeutic action or may increase adverse effects. Additionally, drug-induced depletion of nutrients can occur. Comprehensive clinical data, quick reference features, and the insight and expertise of trusted authorities help you gain a confident understanding of how herbal remedies and nutritional supplements interact with pharmaceuticals and develop safe individualized treatment strategies for your patients. More than 60 comprehensive monographs of herb-drug and nutrient-drug interactions cover the most commonly used herbs and nutrients in health-related practice and help you coordinate safe, reliable therapy. Each herb and nutrient monograph features summary tables and concise practical suggestions that provide quick and easy reference and complement the systematic review and in-depth analysis. References included on the bound in CD provide high-quality evidence-based support. Unique icons throughout the text differentiate interactions evidence and clinical significance. Up-to-date information keeps you current with the latest developments in pharmacology, nutrition, phytotherapy, biochemistry, genomics, oncology, hematology, naturopathic medicine, Chinese medicine, and other fields. A diverse team of authoritative experts lends valuable transdisciplinary insight.

**Current Catalog** National Library of Medicine (U.S.), First multi-year cumulation covers six years 1965-70. *Physiology of the Heart* Arnold M. Katz, 2010-11-09. Dr. Arnold Katz's internationally acclaimed classic *Physiology of the Heart* is now in its thoroughly revised Fifth Edition, incorporating the latest molecular biology research and extensively exploring the clinical applications of these findings. In the single-authored expert voice that is this book's unique strength, Dr. Katz provides a comprehensive overview of the physiological and biophysical basis of cardiac function, beginning with structure and proceeding to biochemistry, biophysics, and pathophysiology in arrhythmias, ischemia, and heart failure. Emphasis is on the interrelationships of basic processes among the cell, cardiac muscle function, and the biophysics of contractile and electrical behavior. This edition includes new material on cell signaling and molecular biology.

### **Structure and Properties of Cell Membrane Structure and Properties of Cell Membranes**

Benga, 2018-01-18. This book provides in-depth presentations in membrane biology by specialists of international repute. The volumes examine world literature on recent advances in understanding the molecular structure and properties of membranes, the role they play in cellular physiology and cell-cell interactions, and the alterations leading to abnormal cells. Illustrations, tables, and useful appendices complement the text. Those professionals actively working in the field of cell membrane investigations, as well as biologists, biochemists, biophysicists, physicians, and academicians, will find this work beneficial.

**Handbook of Plant Science, 2 Volume Set** Keith Roberts, 2007-12-10. Plant Science, like the biological sciences in general, has undergone seismic shifts in the last thirty or so years. Of course, science is always changing and metamorphosing, but these shifts have meant that modern plant science has moved away from its previous, more agricultural and botanical context to become a core biological discipline in its own right. However, the sheer amount of information that is accumulating about plant science and the difficulty of grasping it all, understanding it, and evaluating it intelligently has never

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The Proton and Calcium Pumps ,1978 *Computational and Experimental Insights in Redox-Coupled Proton Pumping in Proteins* Vivek Sharma,Petra Imhof,Petra Hellwig,2021-10-29 **The Transporter Factsbook** Jeffrey Griffith,Clare Sansom,1997-12-22 How do you keep track of basic information on the proteins you work with Where do you find details of their physicochemical properties amino acid sequences and structure Are you tired of scanning review articles primary papers and databases to locate that elusive fact The Academic Press FactsBook Series has established itself as the best source of easily accessible and accurate facts about protein groups Described as a growing series of excellent manuals by Molecular Medicine Today and essential works of reference by Trends in Biochemical Sciences the FactsBooks have become the most popular comprehensive data resources available Using an easy to follow format the FactsBooks will keep you up to date with the latest advances in structure amino acid sequences physicochemical properties and biological activity Meticulously researched and compiled by experts in the field keeping abreast of developments has never been so easy The Transporter FactsBook contains entries covering almost 800 transporters Organized into 55 families of structurally related transporters this volume includes ATPases ABC transporters H dependent antiporters and symporters Na dependent antiporters and symporters and other transporters such as mitochondrial transporters Nomenclature biological sources and substrates Phylogenetic relationships Predicted structures Physical and genetic characteristics Multiple amino acid sequence alignments Database accession numbers Key references

CRISP Thesaurus ,1989 *Structural Dynamics of Membrane Proteins* Xuejun Cai Zhang,2025-03-05 This book takes a comprehensive approach to exploring the connection between Membrane proteins MPs structures and functions employing the principles of chemical kinetics It systematically presents the physical properties and biological significance of electrostatic membrane potential while also analyzing the structure function relationships within various MP families based on the principle of membrane potential driving force among other novel concepts To enhance understanding the functional mechanisms of MPs are explained in accessible language and illustrated with simplified models Whether utilized as a supplementary textbook for undergraduate and postgraduate students specializing in molecular biology and physics or as a reference guide for researchers in related fields this book offers valuable insights into the intricate world of structural biology

**Membrane Biochemistry** E. Carafoli,G. Semenza,2012-12-06 This manual collects in the form of laboratory protocols a series of experiments in the field of

Membrane Transport and Membrane Bioenergetics It represents the experience accumulated during four advanced courses held at the Department of Biochemistry of the Swiss Federal Institute of Technology on behalf of Federation of European Biochemical Societies FEBS in the years 1975 through 1978 The idea of collecting the experiments into a laboratory manual developed as a response to a demand from the students who took part in the courses Further motivation came with the finding that in planning the laboratory sessions the teaching staff had no organized modern source of information in the literature The experiments presented cover most areas of importance in the subject matter Their presentation has been continuously modified in the course of the four years during which the manual took shape to accommodate to experience and various suggestions In their present form all of the experiments described have been repeatedly practiced to optimize their execution Efforts have been made to combine in the manual classical experiments and techniques which require relatively unsophisticated instrumentation and can therefore be carried out in most laboratories with more modern experiments and relatively newer technologies In its present form the manual should therefore provide a useful tool in the hands of researchers and laboratory teachers at different levels of sophistication and instrumentation

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