

MOLECULAR BASIS OF MEMBRANE TRANSPORT

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Molecular Basis Of Biomembrane Transport

Arnost Kotyk



Molecular Basis Of Biomembrane Transport:

Molecular Biology of Membrane Transport Disorders Stanley G. Schultz, 1996-06-30 The scope and depth of this book are excellent with in depth reviews that will be of benefit to both novice and expert alike An excellent text worthy of a place on any self respecting membranologists book shelf and I recommend it highly Trends in Biochemical Sciences Molecular Biology of Membrane Transport Disorders comprises the first compilation of papers on the important membrane transporters and ion channels with an emphasis on membrane transport disorders Internationally recognized leaders in the field provide a thorough understanding of the pathogenesis of clinical conditions that involve derangements in membrane transport processes at the molecular level This work is a valuable resource for medical and graduate students and researchers in the biomedical sciences as well as academic physicians in cardiology nephrology neurology and gastroenterology *Molecular Basis of Membrane Transport* ,1986 *Cell Membrane Transport* Arnost Kotyk, 2012-12-06 It is not a particularly rewarding task to engage in writing a book on a subject which is undergoing a rapid and potentially revolutionary development but on the other hand the investigation of transport of substances into and out of cells has reached a stage of maturity or at least of self realization and this fact alone warrants a closer examination of the subject No one will doubt at present that the movement mostly by selective translocation of substances ranging from hydrogen ions to deoxyribo nucleic acids across the cell surrounding barriers represents one of the salient features of a living cell and that if we are permitted to go so far the cessation of the selective transport processes might be considered as the equivalent of cell death Hardly anybody will question the premise that cell and tissue differentiation within the ontogenetic development of an organism is closely associated with properties of the outer cell face Perhaps no serious scholar will attempt to refute the concept that membranes with characteristic morphology and composition represent the architectural framework for the whole cell And probably no experienced biologist will raise objections to the belief that many physiological processes like nervous impulse conduction and other electrical phenomena of cells and tissues or their volume changes are associated with membrane regulated shifts of ions and molecules

Research Awards Index ,1986 **Membrane Receptors, Dynamics, and Energetics** K. Wirtz, 2012-12-06 *Biomedical Index to PHS-supported Research: pt. A. Subject access A-H* ,1992

Subject Index of Current Research Grants and Contracts Administered by the National Institute of General Medical Sciences National Institute of General Medical Sciences (U.S.). Division of Research Grants, 1976 **Research Grants Index** National Institutes of Health (U.S.). Division of Research Grants, 1975 **Biomedical Index to PHS-supported Research** ,1991 **Current Catalog** National Library of Medicine (U.S.), First multi year cumulation covers six years 1965 70 Forthcoming Books Rose Arny, 1989-09 **National Library of Medicine Current Catalog** National Library of Medicine (U.S.), 1989 Subject Index of Current Research Grants and Contracts Administered by the National Institute of General Medical Sciences National Institute of General Medical Sciences (U.S.), 1975 *Genetic and*

Cellular Bases of Congenital Renal Dysfunction, 1970

The Movement Of Molecules Across Cell Membranes Wes

Stein, 2012-12-02 The Movement of Molecules across Cell Membranes provides an understanding of the molecular basis of the movement of substances across the cell membrane by discussing the composition and structure of cell membranes. Comprised of nine chapters, the book starts by discussing the theory of irreversible thermodynamics to membrane transport, followed by a discussion of the Eyring analysis of diffusion. It then discusses the model for movement into and across the cell membranes. Other chapters focus on the existence of pores in the red cell membranes and the ion movement across the erythrocyte membranes. The book's final chapter considers the four classifications of membrane-based models, which include the mobile carrier model, the pore model, and the two classes of enzyme models. This book is intended for research students, research workers, biochemists, biophysicists, and physiologists. Pharmacologists in the clinical field, as well as research workers in agriculture, will also find this book invaluable.

Genetic Diseases of the Kidney Richard P. Lifton, Stefan

Somlo, Gerhard H. Giebisch, Donald W. Seldin, 2009-02-25 Genetic approaches have revolutionized our understanding of the fundamental causes of human disease by permitting the identification of specific genes in which variation causes or contributes to susceptibility to or protection from disease. More than 2,000 disease genes have been identified in the last 20 years, providing important new insight into the pathophysiology of diseases in every field of medicine. *Genetic Diseases of the Kidney* offers expert insight into the role of genetic abnormalities in the pathogenesis of abnormal kidney function and kidney disease. Genetic abnormalities are carefully presented within the appropriate physiologic context so that readers will understand not only which genes are linked to which diseases but also which pathways lead from a genetic disturbance to the systemic appearance of disease. Lays the essential foundation of mammalian genetics principles for medical professionals with little or no background in genetics. Analyzes specific renal diseases, both monogenic disorders confined to the kidney and systemic diseases with renal involvement, and explains their genetic causes. World-renowned editors and authors offer expert frameworks for understanding the links between genes and complex clinical disorders, i.e., lupus, diabetes, HIV, and hypertension.

Seldin and Giebisch's The Kidney Robert J. Alpern, Steven C. Hebert, 2007-10-10 A classic nephrology

reference for over 20 years, *Seldin and Giebisch's The Kidney* is the acknowledged authority on renal physiology and pathophysiology. The fourth edition follows the changed focus of nephrology research to the study of how individual molecules work together to affect cellular and organ function, emphasizing the mechanisms of disease. With over 40 new chapters and over 1,000 illustrations, this edition offers the most in-depth discussion anywhere of the physiologic and pathophysiologic processes of renal disease. Comprehensive, authoritative coverage progresses from molecular biology and cell physiology to clinical issues regarding renal function and dysfunction. If you research the development of normal renal function or the mechanisms underlying renal disease, *Seldin and Giebisch's The Kidney* is your number one source for information. Offers the most comprehensive coverage of fluid and electrolyte regulation and dysregulation in 51 completely revised

chapters unlike Brenner Rector's The Kidney which devotes only 7 chapters to this topic Includes 3 sections 31 chapters devoted to regulation and disorders of acid base homeostasis and epithelial and nonepithelial transport regulation Brenner Rector's only devotes 5 chapters to these topics Previous three editions edited by Donald Seldin and Gerhard Giebisch world renowned names in nephrology The title for the fourth edition has been changed to reflect their considerable work on previous editions and they have also written the forward for this edition Over 20 million adults over age 20 have chronic kidney disease with the number of people diagnosed doubling each decade making it America's ninth leading cause of death

Comprehensive Biophysics, 2012-04-12 Biophysics is a rapidly evolving interdisciplinary science that applies theories and methods of the physical sciences to questions of biology Biophysics encompasses many disciplines including physics chemistry mathematics biology biochemistry medicine pharmacology physiology and neuroscience and it is essential that scientists working in these varied fields are able to understand each other's research Comprehensive Biophysics Nine Volume Set will help bridge that communication gap Written by a team of researchers at the forefront of their respective fields under the guidance of Chief Editor Edward Egelman Comprehensive Biophysics Nine Volume Set provides definitive introductions to a broad array of topics uniting different areas of biophysics research from the physical techniques for studying macromolecular structure to protein folding muscle and molecular motors cell biophysics bioenergetics and more The result is this comprehensive scientific resource a valuable tool both for helping researchers come to grips quickly with material from related biophysics fields outside their areas of expertise and for reinforcing their existing knowledge Biophysical research today encompasses many areas of biology These studies do not necessarily share a unique identifying factor This work unites the different areas of research and allows users regardless of their background to navigate through the most essential concepts with ease saving them time and vastly improving their understanding The field of biophysics counts several journals that are directly and indirectly concerned with the field There is no reference work that encompasses the entire field and unites the different areas of research through deep foundational reviews Comprehensive Biophysics fills this vacuum being a definitive work on biophysics It will help users apply context to the diverse journal literature offering and aid them in identifying areas for further research Chief Editor Edward Egelman E I C Biophysical Journal has assembled an impressive world class team of Volume Editors and Contributing Authors Each chapter has been painstakingly reviewed and checked for consistent high quality The result is an authoritative overview which ties the literature together and provides the user with a reliable background information and citation resource

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Membranes Wes Stein, 1967-01-28 The Movement of Molecules across Cell Membranes provides an understanding of the molecular basis of the movement of substances across the cell membrane by discussing the composition and structure of cell membranes Comprised of nine chapters the book starts by discussing the theory of irreversible thermodynamics to membrane transport followed by a discussion of the Eyring analysis of diffusion It then discusses the model for movement

into and across the cell membranes Other chapters focus on the existence of pores in the red cell membranes and the ion movement across the erythrocyte membranes The book s final chapter considers the four classifications of membrane based models which include the mobile carrier model the pore model and the two classes of enzyme models This book is intended for research students research workers biochemists biophysicists and physiologists Pharmacologists in the clinical field as well as research workers in agriculture will also find this book invaluable **Whitaker's Books in Print** ,1990

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