

# Membrane Transport in Biology

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III

Transport Across  
Multi-Membrane Systems



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# Transport Across Multimembrane Systems

**Anthony Martonosi**



## **Transport Across Multimembrane Systems:**

**Transport Across Multi-membrane Systems** M. A. Bisson, Gerhard H. Giebisch, 1978-01-01      **Transport Across Multi-Membrane Systems** G. Giebisch, 2012-12-06 The contributions of this volume are concerned with transport phenomena in multimembrane systems and in simple epithelia. In addition to the very substantial progress that has been made in the area of transport of fluid and solutes across artificial model membranes in vitro and across simple symmetrical cell membranes, much has been learned from studies of transport phenomena in multi-membrane systems of higher complexity to be reviewed in this volume. It should be recalled that many of the fundamental conceptual and methodological problems of transport physiology have been successfully approached and defined by studying simple epithelia in vitro and that the direction that research has taken has been affected in a major way by the cellular transport models that have evolved from this approach. Since then, striking progress has been made in several areas. Not only have we been witnessing a keen and productive interest in the relationship between fine structure and transport behavior in multimembrane systems, but significant advancements have also been made in defining individual active and passive transport operations, in analyzing cell ion activities and transport pools, and in describing the differences in transport functions that underlie the membrane asymmetry and cell polarization of cells subserving directional transport.

**Transport Across Multimembrane Systems** Hans H. Ussing, 1978      Transport Across Multi-Membrane Systems Gerhard Giebisch, 1978      Membrane Transport in Biology, 1978      *Membrane Transport in Biology: Transport across multi-membrane systems* Gerhard H. Giebisch, D. C. Tosteson, Hans H. Ussing, 1978      **Membrane Transport Processes in Organized Systems** Thomas E. Andreoli, Darrell D. Fanestil, Joseph F. Hoffman, Stanley G. Schultz, 2012-12-06 *Membrane Transport Processes in Organized Systems* is a softcover book containing portions of *Physiology of Membrane Disorders*, Second Edition. The parent volume contains six major sections. This text encompasses the fourth and fifth sections: *Transport Events in Single Cells* and *Transport in Epithelia*. *Vectorial Transport through Parallel Arrays*. We hope that this smaller volume, which deals with transport processes in single cells and in organized epithelia, will be helpful to individuals interested in general physiology, transport in single cells and epithelia, and the methods for studying those transport processes.

THOMAS E. ANDREOLI, JOSEPH F. HOFFMAN, DARRELL D. FANESTIL, STANLEY G. SCHULTZ. VII. Preface to the Second Edition. The second edition of *Physiology of Membrane Disorders* represents an extensive revision and a considerable expansion of the first edition. Yet the purpose of the second edition is identical to that of its predecessor, namely, to provide a rational analysis of membrane transport processes in individual membranes, cells, tissues, and organs, which in turn serves as a frame of reference for rationalizing disorders in which derangements of membrane transport processes play a cardinal role in the clinical expression of disease. As in the first edition, this book is divided into a number of individual but closely related sections. Part V represents a new section where the problem of transport across epithelia is treated in some detail. Finally, Part VI, which analyzes clinical derangements, has been

enlarged appreciably Transport And Diffusion Across Cell Membranes Wilfred Stein,2012-12-02 Transport and Diffusion across Cell Membranes is a comprehensive treatment of the transport and diffusion of molecules and ions across cell membranes This book shows that the same kinetic equations with appropriate modification can describe all the specialized membrane transport systems the pores the carriers and the two classes of pumps The kinetic formalism is developed step by step and the features that make a system effective in carrying out its biological role are highlighted This book is organized into six chapters and begins with an introduction to the structure and dynamics of cell membranes followed by a discussion on how the membrane acts as a barrier to the transmembrane diffusion of molecules and ions The following chapters focus on the role of the membrane s protein components in facilitating transmembrane diffusion of specific molecules and ions measurements of diffusion through pores and the kinetics of diffusion and the structure of such pores and their biological regulation This book methodically introduces the reader to the carriers of cell membranes the kinetics of facilitated diffusion and cotransport systems The primary active transport systems are considered emphasizing the pumping of an ion sodium potassium calcium or proton against its electrochemical gradient during the coupled progress of a chemical reaction while a conformational change of the pump enzyme takes place This book is of interest to advanced undergraduate students as well as to graduate students and researchers in biochemistry physiology pharmacology and biophysics Some Aspects of Membrane Transport Systems ,1990 **Transport and Accumulation in Biological Systems** Eric James Harris,1972

*Multicomponent Mass Transport in Aqueous and Membrane Systems* George B. Wills,1968 **Channels, Carriers, and Pumps** Wilfred D. Stein,2012-12-02 For students as well as researchers this book describes the exciting new advances in the molecular biology of transport proteins and integrates this information with transport kinetics function and regulation Experimental data are linked with theory 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 Transport Phenomena and Living Systems Edwin N. Lightfoot,1973 Transport and Accumulation in Biological Systems ,1950 **Transport Phenomena in Biological Systems** George A. Truskey,Fan Yuan,David F. Katz,2004-12-01 Transport And Diffusion Across Cell Membranes Wilfred Stein,1986-03-28 Transport and Diffusion across Cell Membranes is a comprehensive treatment of the transport and diffusion of molecules and ions across cell membranes This book shows that the same kinetic equations with appropriate modification can describe all the specialized membrane transport systems the pores the carriers and the two classes of pumps The kinetic formalism is developed step by step and the features that make a system effective in carrying out its biological role are highlighted This book is organized into six chapters and begins with an introduction to the structure and dynamics of cell membranes followed by a discussion on how the membrane acts as a barrier to the transmembrane diffusion of molecules

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**The Enzymes of Biological Membranes** Anthony Martonosi,1976-06-01 Much of the information currently available on the transport systems of bacterial and animal cell membranes and their mode of coupling to metabolic supply of energy can be found in this volume Consideration of the participating enzymes dictated the choice of topics Several transport systems where little information is available on the enzymology of the process are not included while separate chapters deal with  $\gamma$  glutamyl transpeptidase and intestinal disaccharidases which meet many of the requirements of transport enzymes The volume also includes two chapters on photosynthetic membranes as a general introduction to the topic Other aspects of biological transport and photosynthesis will be developed in detail in a forthcoming volume now in preparation These chapters reveal the excitement and rapid advance of the field the daily reports of new concepts new techniques and new experimental findings which instantly interact to generate further progress Our aim was to provide a starting point for those who are just beginning and an opportunity for others to stop take stock and start in a new direction My warmest thanks to all who contributed to this volume

**Microbial membrane transport systems** ,1990 Current Topics in Membranes Arnost Kleinzeller,Douglas M. Fambrough,Dale J. Benos,1991-11

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