

# Molecular Specialization and Symmetry in Membrane Function

**Edited by Arthur K. Solomon and Manfred Karnovsky**

**HARVARD BOOKS IN BIOPHYSICS**



Harvard University Press

# Molecular Specialization And Symmetry In Membrane Function

**JE Gale**



## **Molecular Specialization And Symmetry In Membrane Function:**

Molecular Specialization and symmetry in membrane function, 1976      *Molecular Specialization and Symmetry in Membrane Function* Arthur Kaskel Solomon, Manfred L. Karnovsky, 1978 Biological membranes have been under intensive investigation for several decades Despite very great experimental challenges membranes are at last beginning to reveal their secrets In this book leading investigators of membrane structure and function report on progress in three related fields specialization of membrane regions asymmetry in transport properties and differentiation of cell faces in epithelia Specialization at the Molecular Level is the subject of the first section in it the authors consider such problems as the biogenesis of membranes the geometry of protein lipid relationships and the physical properties of membrane receptor sites In the second section Asymmetry in Transport such topics as the sodium potassium pump proton translocation and anion transport are covered The last section is entitled Polar Faces in Epithelia and deals with the complex properties of ion transport across the complex membrane environment maintained by surfaces such as the renal tubular epithelia

*Molecular Specialization and Symmetry in Membrane Function* Symposium on Molecular Specialization and Symmetry in Membrane Function\$ (1976 : Harvard Medical School), 1978      *Structure and Function of Membrane Proteins* E. Quagliariello, F. Palmieri, 2014-05-21 *Structure and Function of Membrane Proteins* documents the proceedings of the International Symposium on Structure and Function of Membrane Proteins held in Selva di Fasano on May 23 26 1983 This compilation makes it possible to obtain more information on the structure of membrane proteins determining the structure in order to understand the function and mechanism of action that is only understood by knowledge of the atomic structure The gathering of data on the function of membrane proteins prior to knowledge of their structure is valuable for characterizing and defining the proteins Once the structure is known another stage of research will penetrate to the functional assignments of the structure Other topics covered include the physical methods for the structure function relationship identification and mapping of sites in membrane proteins and primary structure of transport proteins Tertiary structure and molecular shape of membrane proteins and structure function relationship in membrane proteins are also examined This book is a good source of information for students and individuals conducting research on biochemistry specifically on membrane proteins

**Molecular Neurobiology of the Olfactory System** F.L. Margolis, T.V. Getchell, 2013-11-11 The sense of smell and the olfactory system have been a subject of intrinsic interest for millenia Inquiry into the structure and function of the olfactory system is based on a long tradition that dates back at least to the ancient Greeks The mechanistic basis for the sensitivity and selectivity of this chemosensory detection system has always posed a challenge and remained largely a mystery Recently there has been a renaissance of interest in it and especially in the application of contemporary techniques of biochemistry and cellular and molecular biology In this volume current research utilizing these approaches is discussed in depth by a group of scientists who are among the current leaders in the applications of these techniques to the olfactory system These

authors address a wide range of questions that bear directly on the olfactory system but have broader biological implications as well. The various chapters have been grouped into five broad subject areas that emphasize diverse but related questions. Transduction and Ligand Receptor Interactions considers the biochemical bases of stimulus access interaction transduction elimination and information processing. *Current Topics in Membranes and Transport*, 1980-02-01 Current Topics in Membranes and Transport. **The Role of the Gastrointestinal Tract in Nutrient Delivery** Morris Green, 2012-12-02. The Role of the Gastrointestinal Tract in Nutrient Delivery contains the proceedings of the third annual Bristol Myers Symposium on Nutrition Research held on December 1-2, 1983 in Washington D C. Contributors focus on the knowledge and research findings concerning the role of the gastrointestinal tract in nutrient delivery. This text is organized into 15 chapters and addresses topics such as gastrointestinal motility, hormonal regulation of growth and function, the mechanisms of digestion and absorption, and the diverse effects of intestinal contents on nutrient absorption and antigenic response. The discussion begins with an overview of the gastrointestinal tract with emphasis on factors that affect the growth of gastrointestinal mucosa and the implications for nutrition. This book then turns to kinetic and biochemical parameters related to the development of several diseases of the gastrointestinal tract. The reader is also introduced to the basic aspects of organization of the systems in which peptides act as regulators of digestion, the role of endogenous prostaglandins in the gastrointestinal tract and gastric secretion. A chapter on the age-related functions of digestive tract organs concludes the book. This book will be of value to physicians and scientists as well as students and researchers who have an interest in the crucial role of the gastrointestinal tract in converting food into the nutrients the body uses to sustain its functions.

Structure and Properties of Cell Membranes Structure and Properties of Cell Membranes Gheorghe 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. **Membrane Fluidity in Biology** Roland C. Aloia, Joan M. Boggs, 2013-10-22. Membrane Fluidity in Biology Volume 4 Cellular Aspects provides a unique interpretation of membrane and cellular activity as well as cellular aspects of membrane fluidity. This book discusses the influence of membrane fluidity on enzyme activity, function of the sarcoplasmic reticulum in skeletal muscle, role of cholesterol in membrane function, phospholipid methylation, glycosyltransferases, and membrane fusion. The realm of normal cellular function and mechanisms involved in the modulation of cellular function by membrane lipids are also elaborated in this publication. This volume is intended for cell and molecular biologists and clinical medical scientists but is also beneficial to individuals researching on the effects of membrane lipids and fluidity in cellular function. *The Enzymes*

*of Biological Membranes* Anthony Martonosi, 2012-12-06 In the first edition of *The Enzymes of Biological Membranes* published in four volumes in 1976 we collected the mass of widely scattered information on membrane linked enzymes and metabolic processes up to about 1975 This was a period of transition from the romantic phase of membrane biochemistry preoccupied with conceptual developments and the general properties of membranes to an era of mounting interest in the specific properties of membrane linked enzymes analyzed from the viewpoints of modern enzymology The level of sophistication in various areas of membrane research varied widely the structures of cytochrome c and cytochrome b were known to atomic detail while the majority of membrane linked enzymes had not even been isolated In the intervening eight years our knowledge of membrane linked enzymes expanded beyond the wildest expectations The purpose of the second edition of *The Enzymes of Biological Membranes* is to record these developments The first volume describes the physical and chemical techniques used in the analysis of the structure and dynamics of biological membranes In the second volume the enzymes and metabolic systems that participate in the biosynthesis of cell and membrane components are discussed The third and fourth volumes review recent developments in active transport oxidative phosphorylation and photosynthesis

*Membrane Transport* Daniel C. Tosteson, 2013-05-27 This is a fascinating collection of personal accounts which is a must read for anyone interested in membrane transport or the history of the development of the current picture of membrane transport physiology This delightful book could serve variously as a history for investigators and historians or as a textbook for advanced students No biology or medical library should be without it **Rev Can Biol**, 1979 Phospholipids

Handbook Gregor Cevc, 2018-04-27 Employing a multidisciplinary approach to phospholipid research this work catalogues the current knowledge of this class of molecules and details the general chemical physical and structural properties of phospholipid monolayers and bilayers Phospholipid applications are also covered *Biomolecular Structure and Function* Paul Agris, 2012-12-02 *Biomolecular Structure and Function* covers the proceedings of the 1977 Cellular Function and Molecular Structure Biophysical Approaches to Biological Problems symposium It summarizes the application of several biophysical techniques to molecular research in biology This book starts by describing the use of deuterium labeled lipids as monitors of the degree of organization of membrane lipids It also describes the use of carbon 13 labeled lipids as indicators of molecular mobility It explains the lipid protein interactions involving two integral membrane proteins mitochondrial cytochrome oxidase and calcium dependent ATPase of muscle sarcoplasmic reticulum The book goes on to present NMR studies on the organization and conformation of phospholipids chloroplast membranes and erythrocyte membranes It also presents the ESR study of spectrin phospholipid associations It discusses the use of fluorescence probes electrokinetics neutron diffraction and ion theory studies of phospholipid protein association hormone disease and senescence effects on prokaryotic and eukaryotic cells Moreover this book presents the experiments and phosphorus 31 NMR methodology to simultaneously monitor the intracellular pH and phosphate metabolism in a beating heart functioning kidney or an intact

living microorganism This book then describes physical probing of intracellular fluidity and structural changes attending tissue or cell cycles It also relates relatively narrow lines in the hydrogen 1 NMR spectrum of the extremely viscous complex of the muscle protein troponin and highly polymerized tropomyosin Structure function studies of fibrous proteins such as collagen actin and myosin and active site analysis of enzymes are also presented Finally a wide variety of methodologies and technologies is exemplified This includes proton carbon fluorine phosphorus and lithium NMR spectroscopy spin labeling and EPR spectroscopy chemical studies light scattering and fluorescence and electron microscopy

**Membrane Physiology**  
 Thomas E. Andreoli, Darrell D. Fanestil, Joseph F. Hoffman, Stanley G. Schultz, 2012-12-06 Membrane Physiology Second Edition is a soft cover book containing portions of Physiology of Membrane Disorders Second Edition The parent volume contains six major sections This text encompasses the first three sections The Nature of Biological Membranes Methods for Studying Membranes and General Problems in Membrane Biology We hope that this smaller volume will be helpful to individuals interested in general physiology and the methods for studying general physiology 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

**Physiology of Membrane Disorders**  
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catholic sense the vectorial transfer of molecules either individually or as ensembles across biological interfaces the latter including those interfaces which separate different intracellular compartments the cellular and extracellular compartments and secreted fluids such as glomerular filtrate and extracellular fluids      **Ultrastructure, Macromolecules, and**

**Evolution** Lawrence S. Dillon, 2013-11-11 Thus far in the history of biology two and only two fundamental principles have come to light that pervade and unify the entire science the cell theory and the concept of evolution While it is true that recently opened fields of investigation have given rise to several generalizations of wide impact such as the universality of DNA and the energetic dynamics of ecology closer inspection reveals them to be part and parcel of either of the first two mentioned Because in the final analysis energy can act upon an organism solely at the cellular level its effects may be perceived basically to represent one facet of cell metabolism Similarly because the DNA theory centers upon the means by which cells build proteins and reproduce themselves it too proves to be only one more even though an exciting aspect of the cell theory In fact if the matter is given closer scrutiny evolution itself can be viewed as being a fundamental portion of the cell concept for its effects arise only as a consequence of changes in the cell's genetic apparatus accumulating over geological time Or if one wishes the diametrically opposite standpoint may be taken For if current concepts of the origin of life hold any validity the evolution of precellular organisms from the primordial biochemicals must have proceeded over many eons of time prior to the advent of even the most primitive cell      Exploring the Cell Membrane: Conceptual Developments

A. Kleinzeller, 2012-12-02 The suggestion for this collection of essays originated in part from a course given to graduate students at the University of Pennsylvania School of Medicine In sections of this course the conceptual developments in the fields of membrane transport and cellular respiration were traced to illustrate general aspects of the development of ideas in a scientific field Discussions with peers on the topic also greatly enhanced the development of the project as it is reflected in this book The volume reflects the breadth and scope of this rapidly developing field and is an excellent treatise of a historical evaluation of how this field has developed      Transport and Inherited Disease C. Toothill, N.R.R. Belton, 2012-12-06 Many

clinical problems of transport have been known for decades particularly those disorders involving the liver and kidney As a result of the dramatic increase in interest in transport at the membrane level the Society devoted its Seventeenth Symposium held at Leeds during September 1979 to Transport and Inherited Disease the result of that meeting forming the basis of this monograph For the occasion over a hundred members and guests of the Society were joined by many invited speakers from Europe and the USA to discuss this rapidly developing field with special reference to the direct interests of the Society in inherited metabolic disease The major theme of the meeting was opened with formal scientific presentations on membrane structure synthesis and the regulation of epithelial transport These were followed by discussions of specific problems of transport in brain kidney and red blood cells Almost all of these later lectures had clinical applications with cystic fibrosis and nephrogenic diabetes insipidus featuring as examples of the common inherited diseases The Hudson Memorial Lecture

was delivered by Professor H Bickel Heidelberg This outstanding review lecture on Phenylketonuri past present and future is reproduced in the Journal of the Society the Journal of Inherited Metabolic Disease Volume 3 No 4 pp 123 132 xiii xiv

PREFACE The members papers both oral and poster are also being reprinted in various issues of the Journal published by MTP Press Ltd Lancaster UK

*Chloride Transport in Biological Membranes* Jose Zadunaisky, 2012-12-02 Chloride Transport in Biological Membranes is a collection of papers that present advances and the state of knowledge in the transport of chloride and other anions across biological membranes The book includes papers that discuss topics such as the anion transport protein functional sites of the red cell anion exchange protein and anion and proton transport through lipid bilayers Also covered in the book are chloride transport in certain areas such as the renal tubule the gastric mucosa and the cornea the role of sodium in anion transport chloride reabsorption and the hormonal control of chloride secretion The text is recommended for biologists biochemists and practitioners in health science especially those who would like to know more about the processes involved in chloride transport



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## **Table of Contents Molecular Specialization And Symmetry In Membrane Function**

1. Understanding the eBook Molecular Specialization And Symmetry In Membrane Function
  - The Rise of Digital Reading Molecular Specialization And Symmetry In Membrane Function
  - Advantages of eBooks Over Traditional Books
2. Identifying Molecular Specialization And Symmetry In Membrane Function
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Molecular Specialization And Symmetry In Membrane Function
  - User-Friendly Interface
4. Exploring eBook Recommendations from Molecular Specialization And Symmetry In Membrane Function
  - Personalized Recommendations
  - Molecular Specialization And Symmetry In Membrane Function User Reviews and Ratings
  - Molecular Specialization And Symmetry In Membrane Function and Bestseller Lists
5. Accessing Molecular Specialization And Symmetry In Membrane Function Free and Paid eBooks

- Molecular Specialization And Symmetry In Membrane Function Public Domain eBooks
  - Molecular Specialization And Symmetry In Membrane Function eBook Subscription Services
  - Molecular Specialization And Symmetry In Membrane Function Budget-Friendly Options
6. Navigating Molecular Specialization And Symmetry In Membrane Function eBook Formats
    - ePub, PDF, MOBI, and More
    - Molecular Specialization And Symmetry In Membrane Function Compatibility with Devices
    - Molecular Specialization And Symmetry In Membrane Function Enhanced eBook Features
  7. Enhancing Your Reading Experience
    - Adjustable Fonts and Text Sizes of Molecular Specialization And Symmetry In Membrane Function
    - Highlighting and Note-Taking Molecular Specialization And Symmetry In Membrane Function
    - Interactive Elements Molecular Specialization And Symmetry In Membrane Function
  8. Staying Engaged with Molecular Specialization And Symmetry In Membrane Function
    - Joining Online Reading Communities
    - Participating in Virtual Book Clubs
    - Following Authors and Publishers Molecular Specialization And Symmetry In Membrane Function
  9. Balancing eBooks and Physical Books Molecular Specialization And Symmetry In Membrane Function
    - Benefits of a Digital Library
    - Creating a Diverse Reading Collection Molecular Specialization And Symmetry In Membrane Function
  10. Overcoming Reading Challenges
    - Dealing with Digital Eye Strain
    - Minimizing Distractions
    - Managing Screen Time
  11. Cultivating a Reading Routine Molecular Specialization And Symmetry In Membrane Function
    - Setting Reading Goals Molecular Specialization And Symmetry In Membrane Function
    - Carving Out Dedicated Reading Time
  12. Sourcing Reliable Information of Molecular Specialization And Symmetry In Membrane Function
    - Fact-Checking eBook Content of Molecular Specialization And Symmetry In Membrane Function
    - Distinguishing Credible Sources
  13. Promoting Lifelong Learning
    - Utilizing eBooks for Skill Development

- Exploring Educational eBooks

#### 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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