



Biological Membranes

**Dennis Chapman, Donald Francis
Hoelzl Wallach**



Biological Membranes:

An Introduction to Biological Membranes William Stillwell, 2013-04-20 An Introduction to Biological Membranes From Bilayers to Rafts covers many aspects of membrane structure function that bridges membrane biophysics and cell biology Offering cohesive foundational information this publication is valuable for advanced undergraduate students graduate students and membranologists who seek a broad overview of membrane science Brings together different facets of membrane research in a universally understandable manner Emphasis on the historical development of the field Topics include membrane sugars membrane models membrane isolation methods and membrane transport Biological Membranes Roger Harrison, 2013-11-22 to the Second Edition RESEARCH INTO MEMBRANE ASSOCIATED PHENOMENA HAS EXPANDED VERY greatly in the five years that have elapsed since the first edition of Biological Membranes was published It is to take account of rapid advances in the field that we have written the present edition There is now general acceptance of the fluid mosaic model of membrane structure and of the chemiosmotic interpretation of energetic processes and our attention has shifted from justifying these ideas to explaining membrane functions in their terms Much more information has become available concerning the role of the plasma membrane in the cell s recognition of and response to external signals and this is reflected in the increased coverage of these topics in the book The general form of the book remains the same As before a list of suggested reading sub divided by chapter is provided and this has been expanded to include a greater proportion of original papers The book is still primarily designed as an advanced undergraduate text and also to serve as an introduction for post graduate workers entering the field of membrane research We have taken cognizance of the comments of many reviewers colleagues and students on the first edition and thank them for their contributions In particular we wish to acknowledge our colleagues R Eiseenthal G D Holman D W Hough and A H Rose Dr C R

Biological Membranes: Structure, Biogenesis and Dynamics Jos A.F. Op den Kamp, 2013-06-29 The Advanced Study Institute on Structure Biogenesis and Dynamics of Biological Membranes held in Cargese from June 14 26 1993 has been dealing with four major topics in membrane biochemistry today lipid dynamics and lipid protein interactions protein translocation and insertion intracellular traffic and protein structure and folding The lecturers discussed these topics starting from several disciplines including biochemistry cell biology genetics and biophysics This way an interdisciplinary and very interesting view on biological membrane systems was obtained At first an extensive overview of mainly biophysical techniques which can be used to study dynamic processes in membranes was presented Sophisticated approaches such as ESR and NMR have been applied successfully to unravel details of specific lipid protein interactions x ray analysis provides detailed structural information of several proteins and the possible implications for protein functions Information obtained this way is complemented by studies on mechanisms and kinetics of protein folding The latter information is indispensable when discussing protein translocation and insertion processes in which folding and unfolding play essential roles Extensive insight

was offered in the complicated machinery of phospholipid biosynthesis. In particular, the application of sophisticated genetic techniques has allowed a better understanding of the mechanisms regulating the synthetic machinery and detailed studies on a variety of mutants lacking one or more of the essential enzymes have resulted in the beginning of a bL.

Introduction to Biological Membranes Mahendra Kumar Jain, 1988-01-18 Covers the basic properties of biological membranes in terms of the underlying biophysical properties. Emphasizes the intrinsic molecular logic and intermolecular interactions that underly the functions of biomembranes. Chapter coverage includes a working model for the structure of a biomembrane, molecular properties of phospholipids in biomembranes, properties of lipid-water systems including polymorphism and phase properties, proteins and carbohydrates in bilayers, translocation across bilayers by solubility, diffusion, transmembrane potential, and much more. Many recent developments are discussed, such as transbilayer conformation of proteins, single channel conductance, the receptor-mediated endocytosis, and others. Contains many tables, figures, and over 500 key references up to the end of 1986.

An Introduction to Biological Membranes William Stillwell, 2016-06-30 Introduction to Biological Membranes: Composition, Structure, and Function, Second Edition is a greatly expanded revision of the first edition that integrates many aspects of complex biological membrane functions with their composition and structure. A single membrane is composed of hundreds of proteins and thousands of lipids, all in constant flux. Every aspect of membrane structural studies involves parameters that are very small and fast. Both size and time ranges are so vast that multiple instrumentations must be employed, often simultaneously. As a result, a variety of highly specialized and esoteric biochemical and biophysical methodologies are often utilized. This book addresses the salient features of membranes at the molecular level, offering cohesive foundational information for advanced undergraduate students, graduate students, biochemists, and membranologists who seek a broad overview of membrane science. Significantly expanded coverage on function, composition, and structure. Brings together complex aspects of membrane research in a universally understandable manner. Features profiles of membrane pioneers detailing how contemporary studies originated. Includes a timeline of important discoveries related to membrane science.

Structure and Function of Biological Membranes Lawrence I. Rothfield, 2014-06-28 *Structure and Function of Biological Membranes* explains the membrane phenomena at the molecular level through the use of biochemical and biophysical approaches. The book is an in-depth study of the structure and function of membranes. It is divided into three main parts. The first part provides an overview of the study of the biological membrane at the molecular level. Part II focuses on the detailed description of the overall molecular organization of membranes. The third part covers the relationship of the molecular organization of membranes to specific membrane functions, discusses catalytic membrane proteins, presents the role of membranes in important cellular functions, and looks at the membrane systems in eukaryotic cells. Biochemists, cell physiologists, biologists, researchers, and graduate and postdoctoral students in the field of biology will find the text a good reference material.

Biological Membranes: Structure, Biogenesis and Dynamics Jos A.F. Op den Kamp, 1994-04-28 The

Advanced Study Institute on Structure Biogenesis and Dynamics of Biological Membranes held in Cargese from June 14 26 1993 has been dealing with four major topics in membrane biochemistry today lipid dynamics and lipid protein interactions protein translocation and insertion intracellular traffic and protein structure and folding The lecturers discussed these topics starting from several disciplines including biochemistry cell biology genetics and biophysics This way an interdisciplinary and very interesting view on biological membrane systems was obtained At first an extensive overview of mainly biophysical techniques which can be used to study dynamic processes in membranes was presented Sophisticated approaches such as ESR and NMR have been applied successfully to unravel details of specific lipid protein interactions x ray analysis provides detailed structural information of several proteins and the possible implications for protein functions Information obtained this way is complemented by studies on mechanisms and kinetics of protein folding The latter information is indispensable when discussing protein translocation and insertion processes in which folding and unfolding play essential roles Extensive insight was offered in the complicated machinery of phospholipid biosynthesis In particular the application of sophisticated genetic techniques has allowed a better understanding of the mechanisms regulating the synthetic machinery and detailed studies on a variety of mutants lacking one or more of the essential enzymes have resulted in the beginning of a bL

Cell Membranes Lukas Buehler, 2015-06-17 Cell Membranes offers a solid foundation for understanding the structure and function of biological membranes The book explores the composition and dynamics of cell membranes discussing the molecular and biological diversity of its lipid and protein components and how the combinatorial richness of both components explains the chemical mechanical and self renewing properties of cell membranes Cell Membranes is a valuable resource for advanced undergraduate students graduate students and professionals *Biological Membranes* John B. C. Findlay, W. Howard Evans, 1987 Each animal and plant cell can be constructed of at least ten distinctive types of membrane whose isolation and characterization are now feasible using the wide ranging techniques presented in this book Both newly developed and more established methods for the analysis of proteins and lipids and for the investigation of their topography are described in detail Also provided are procedures for the reconstitution and characterization of membrane systems Particular attention has been paid to immunological approaches for isolating and analyzing membranes and their components and for screening expression systems in molecular cloning Those biophysical and physico chemical techniques which have added much to our understanding of membrane structure and function are also included The text therefore provides a comprehensive collection of modern techniques and approaches used in the study of biological membranes The Structure of Biological Membranes Philip L. Yeagle, 2004-06-28 Recent research has provided an abundance of new information on membrane biochemistry Now more than ever it is essential to update our current understanding of membrane structure and function to fully appreciate and apply these findings Completely revised and updated to reflect advances in the field The Structure of Biological Membranes The Structure of Biological Membranes, Third Edition Philip L. Yeagle, 2011-07-18

Biological membranes provide the fundamental structure of cells and viruses. Because much of what happens in a cell or in a virus occurs on or across biological membranes, the study of membranes has rapidly permeated the fields of biology, pharmaceutical chemistry, and materials science. *The Structure of Biological Membranes*, Third Edition, provides readers with an understanding of membrane structure and function that is rooted in the history of the field and brought to the forefront of current knowledge. The first part of the book focuses on the fundamentals of lipid bilayers and membrane proteins. Three introductory chapters supply those new to the field with the tools and conceptual framework with which to approach the state-of-the-art chapters that follow. The second part of the book presents in-depth analyses of focused subjects within the study of membranes, covering topics that include: Phase behavior of lipid bilayers; Lipid bilayers as an isolated structure; Cholesterol's role in cell biology; Lateral organization of membranes; The role of membrane lipids in initial membrane protein folding; Membrane protein synthesis and assembly of oligomeric membrane proteins; Membrane protein stability with relationships to function and protein turnover; Membrane protein function using a transport protein; Interactions between membrane proteins and membrane lipids. A final chapter pulls together many of the topics, examining in detail the complexity inherent in the synthesis and assembly of lipids and proteins in mitochondrial membranes. With contributions from leading researchers, this completely revised and updated third edition reflects recent advances in the field of biological membranes. It offers a valuable resource for students as well as structural biologists, biophysicists, cell biologists, biochemists, and researchers in the pharmaceutical and biotechnology industries.

What's New in This Edition: Three accessible chapters introduce students to the field of biological membranes. Completely revised and updated chapters present current topics in membrane research.

Biological Membranes Dennis Chapman, Donald Francis Hoelzl, Wallach, 1968

Transport Across Natural and Modified Biological Membranes and its Implications in Physiology and Therapy Julita Kulbacka, Saulius Satkauskas, 2017-10-04

This book elucidates the mechanisms involved in biological membrane functions. It describes the new modalities and characterization for basic in vitro as well as computer models of biological membranes. Biological membranes are analyzed in terms of advances in molecular dynamics. The individual chapters provide an in-depth analysis of images from various biological models. The potential of membrane models in the context of treatment trials is discussed. The authors present new insights and current concepts for treatment procedures: nanocarriers, electroporation, channel blockers.

Biological Membranes in Toxicology E. C. Foulkes, 1998-12-17

Using this concise yet complete introduction to all aspects of biological membranes and their responses to toxicants, the reader will understand the role of cell membranes in controlling uptake, distribution, extrusion, and excretion of toxic xenobiotics. The book also covers the historical background and critically evaluates some of the experiments.

Biological Membranes Kenneth M. Merz, Benoit Roux, 2012-12-06

The interface between a living cell and the surrounding world plays a critical role in numerous complex biological processes. Sperm-egg fusion, virus-cell fusion, exocytosis, endocytosis, and ion permeation are a few examples of processes involving membranes. In

recent years powerful tools such as X ray crystallography electron microscopy nuclear magnetic resonance and infra red and Raman spectroscopy have been developed to characterize the structure and dynamics of biomembranes Despite this progress many of the factors responsible for the function of biomembranes are still not well understood The membrane is a very complicated supramolecular liquid crystalline structure that is largely composed of lipids forming a bilayer to which proteins and other biomolecules are anchored Often the lipid bilayer environment is pictured as a hydrophobic structureless slab providing a thermodynamic driving force to partition the amino acids of a membrane protein according to their solubility However much of the molecular complexity of the phospholipid bilayer environment is ignored in such a simplified view It is likely that the atomic details of the polar head group region and the transition from the bulk water to the hydrophobic core of the membrane are important An understanding of the factors responsible for the function of biomembranes thus requires a better characterization at the molecular level of how proteins interact with lipid molecules of how lipids affect protein structure and of how lipid molecules might regulate protein function

Permeability of Biological Membranes Gaspar Banfalvi, 2016-02-10 This book deals with biological membranes focuses on permeabilization and pays particular attention to reversible permeabilization to maintain the viability and physiological conditions of the cells Selective permeability of biological membranes also known as semipermeability partial permeability or differential permeability allows molecules to diffuse pass by passive and active or by other types of transport processes mediated by proteins The first chapter of the book deals with the composition of biological membranes characterizes cellular membranes of prokaryotic eukaryotic cells membranes of cellular organelles and the function of biological membranes The second chapter provides an overview of bilayer permeability selectivity of permeabilization and cellular transport processes Chapter 3 overviews different cell manipulations that aim to make cells permeable while maintaining not only the structural but also the functional integrity of cells The last chapter deals with applications particularly with reversible permeabilization to study macromolecular DNA RNA poly ADP ribose biosynthetic processes replication gene expression visualization of replicons intermediates of chromosome condensation genotoxic chromatin changes upon treatment with heavy metals and different types of irradiation The interdisciplinary aspects of the book contribute to the understanding of the structure of nucleic acids replicative intermediates Okazaki fragments RNA primer mechanism subphases of replication and repair synthesis replicons gene expression chromosome condensation generated a wealth of information that will attract a wide readership The natural audience engaged in DNA research including genetics cell and molecular biology chemistry biochemistry medicine pharmacy will find essential material in the book

Structure of Biological Membranes Sixten Abrahamsson, 2013-03-08 Since 1965 the Nobel Foundation sponsors through grants from the Bank of Sweden Tercentenary Fund Symposia on subjects which are considered to be of central scientific importance and for which new results of a special interest have been reached The aim of these Symposia is to bring together by personal invitation a limited number of leading scientists from various

countries to discuss the current research situation within the field and to define the most urgent problems to be solved. One of the most important fields in modern biomedical research concerns the structure and function of biological membranes. Research on this subject is very active and important; scientific contributions appear at an increasing rate. It was therefore considered highly appropriate to devote Nobel Symposium 34 to the structure of membranes in order to get an expert summary of what is now known in the field. The Symposium was held at Hotel Billingeus in Skovde about 150 km from Goteborg, Sweden, from June 7 to 11, 1976. In addition to the grant from the Nobel Foundation, financial support was received from the Nobel Institute of Chemistry of the Royal Academy of Sciences and from the Science Fund of Wilhelm and Martina Lundgren. The Symposium was attended by some 50 scientists. The papers in this Volume had been distributed in advance to all participants. Therefore only summary presentations needed to be given at the Symposium, and the main emphasis was put on discussions.

Physical Principles of Biological Membranes Fred M. Snell, 1970 **Biological Membranes** Bernard S. Brown, 1996. This booklet covers how membranes are organized, how membrane structure was proved, how membranes are made, how large particles and messages cross membranes, and how to study membranes.

The Living Barrier Roy J. Levin, 2013-10-22. *The Living Barrier: A Primer on Transfer across Biological Membranes* provides information pertinent to the movement of molecules across cell membranes. This book covers a variety of topics including cell membrane, membrane transfer, water transfer, and movement of charged solutes. Organized into nine chapters, this book begins with an overview of the basic ideas of the cell membrane and reviews the experimental evidence about the structure of the cell membrane. This text then reviews the classical electron microscope pictures of membranes. Other chapters consider the interactions between electrical potentials and the movements of charged substances, which make the membrane transfer of these substances much more complicated than those of neutral molecules. This book discusses as well the aspects of water structure and its influence on membrane permeability. The final chapter deals with the methods by which membranes are synthesized. This book is a valuable resource for biochemists, physiologists, pharmacologists, and botanists.

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