

# **BIOMEMBRANES**

## **Volume 1**

**Edited by**

**Lionel A. Manson**

# Biomembranes Volume 5

**Parvez I. Haris, Dennis Chapman**



## **Biomembranes Volume 5:**

**Membrane Fluidity** Morris Kates, 2012-12-06 The aim of this book is to bring together in one volume the current research and thought on the concept of membrane fluidity as a biological phenomenon The invited articles are intended to review recent developments in the areas of membrane research covered and to summarize the current concepts and theories in those areas The authors have been given ample opportunity to present their thoughts and speculation on membrane fluidity and related phenomena in a more expanded form than is usually possible in reviews of this type It is hoped that this approach will have a stimulating effect on research and theoretical development in the biomembrane field The chapters in this book are arranged in three sections the first of which covers physical studies of membrane fluidity and related phenomena on the molecular level Included are chapters on intermolecular hydrogen bonding between membrane lipids thermal analysis of membranes application of fluorescence and NMR spectrometry to the study of membrane fluidity and the effect of drugs and other compounds on membrane stability and fluidity The second section deals with the regulation of membrane fluidity in microorganisms plants and higher organisms by factors such as temperature fatty acid chain length lipid desaturation and polar head group structure

**Membrane Transport** Arnost Kotyk, 2012-12-06 Not many years ago problems of membranes and transport attracted the attention of but a few dozen enthusiasts mainly physiologists who recognize the significance of membranes for the stabilization of the general steady state of organisms The first symposium organized some fifteen years ago could boast of the attendance of perhaps fifty scientists the remaining fifty were not yet sure that membranes was the topic of their choice ranging in specialization from physical chemistry to bacterial genetics who clairvoyantly decided to study what now has become the number one subject at most congresses of biophysics physiology and even biochemistry and microbiology As is the case with many rapidly developing fields the interest in membranes and transport seems to be growing out of bounds and the whole field of membrane biology interdisciplinary as it is has penetrated into the realms of a number of branches of physics chemistry and biology Its subject is primarily biological and although much has been done in the world to increase the exactness of biology over the past thirty years one cannot strive for a rigorous mathematical description of biological phenomena since as M H

**Aharon Katzir Memorial Volume** Henryk Eisenberg, Ephraim Katchalski-Katzir, Lionel A. Manson, 2012-12-06 It was a warm sunny morning in Rehovot The sky was clear as it always is in June As I walked to the Institute that morning too many cars were passing by too many people were hurrying onto the Institute's grounds No one was smiling acquaintances were recognized by a slight nod of the head When I turned the corner a few people already had gathered on the lawn in front of the Jacob Ziskind building This number was to swell to thousands before the service was over We were to be joined by the President of Israel its first Prime Minister many members of the cabinet and other great near great working colleagues and residents of the town The purpose of all this activity was written on everyone's face and underlined by the casket that lay in the rotunda of the building His wife was

sitting there his children his brother his students both past and present One could hear the silence of the participants I stood inside for a while overlooking the rotunda A long line of mourners filed by offering their sympathies to the family Suddenly a woman dressed in black fell to her knees in front of Rina sobbing It was the wife of the Japanese Ambassador to Israel I moved to join the crowd outside People were standing on the lawn gingerly trying to avoid stepping on a flower

**Bacterial Membranes and the Respiratory Chain** N. S. Gelman, 2012-12-06 The most valuable service Dr Gelman and her colleagues have performed for the many investigators of bacterial membrane systems in producing their first excellent monograph on The Respiratory Apparatus of Bacteria in 1966 has been continued and expanded in the preparation of this volume The authors have brought together in a single volume much of the detail of investigations of bacterial membranes at the ultrastructural level and the chemical and biochemical organizational levels The approach in bringing together this rapidly increasing volume of discovery has been both comprehensive and systematic with a constant awareness of the importance of the molecular and functional properties and relationships existing in various bacterial membranes The monograph naturally reflects the authors interest and their own intimate involvement in the elucidation at the molecular level of the respiratory chains organized in the prokaryotic bacterial membrane system It is entirely appropriate that the chapter devoted to this topic should occupy a substantial proportion of this monograph Indeed had this volume been prepared at this very moment that proportion would have been even greater as the work in Intestinal Absorption D. H. Smyth, 2013-03-09 It might be asked if there is a need for yet another large review on Intestinal Absorption and the answer is that this is still a rapidly expanding field of interest both from the medical and scientific points of view There is ample evidence for this in the number of papers which continue to be published and the bulletin on Intestinal Absorption issued by the Biomedical Information Project of the University of Sheffield lists about 150 titles per month and there is still no sign of any diminution in this rate There are in fact so many papers that those interested in intestinal absorption have to be specialists in one particular field but must at the same time be aware of the general developments in the subject as a whole The last major review was the excellent volume in the American Handbook published in 1968 already six years ago and indeed a number of the contributors to that volume have taken part in the present work Some observations made in the introduction to a volume of the British Medical Bulletin on Intestinal Absorption some years ago are still pertinent Progress in the experimental sciences is not continuous but proceeds in phases of rapid expansion alternating with periods of slower growth *Biomembrane Structures* Parvez I. Harris, Dennis Chapman, 1998 Biological membranes play a significant role in a range of biological processes such as ion transport and signal transduction Over the years much effort has been devoted towards developing an understanding of biomembrane structure The study of this subject is now reaching an important stage This is because at last the full three dimensional structure of certain membrane proteins is beginning to be resolved In the past three dimensional structures of membrane proteins were difficult to obtain as only two dimensional

crystals were available In recent years satisfactory crystals have been obtained and X ray diffraction techniques have been applied This has led to the three dimensional structures of the photosynthetic reaction centres porins and more recently the structure of cytochrome oxidase Of course not all membrane proteins are readily crystallisable and some are not even available in sufficient quantities to obtain the necessary crystals or to carry out biophysical experiments In some cases e g the voltage gated potassium ion channel membrane proteins their structure has been proposed mainly on the basis of molecular biology methods This has prompted the search for alternative approaches for characterising biomembrane structure Molecular biological studies are providing a wealth of information on a number of different membrane proteins Combining the information derived from such studies with molecular modelling is becoming extremely useful for relating structure to function Development of other approaches include synthesis and structure function analysis of peptides corresponding to functionally important domains of membrane proteins This book presents a series of Chapters discussing how a combination of molecular biological biophysical and theoretical molecular modelling techniques are helping us to obtain a much clearer picture of biomembrane structure After an introductory Chapter on the Principles of membrane Protein Structure the book is divided into two sections one dealing with crystallographic approaches and the other non crystallographic approaches such as NMR AFM SPR and FTIR spectroscopy Chapters dealing with the recently solved crystal structure of cytochrome oxidase and bacteriorhodopsin are presented The book contains contributions from leading membrane scientists describing their latest studies It provides an up to date coverage of the developments in the field of biomembranes with particular emphasis on membrane proteins

**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 5 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

Biomembrane Transport Lon J. Van Winkle, 1999-05-20 Biomembrane Transport covers the fundamental principles of biomembrane transport proteins

including thermodynamics and kinetics structure and catalytic mechanism and regulation and integration classification The book considers recent advances in transport protein structure and function along with established concepts The importance of biomembrane transport to regulation and interorgan nutrient flows and metabolism is covered as well as classical and modern techniques for characterizing transport The book also contains a classification scheme for all known transport proteins according to their functions and amino acid residue sequence similarities Considers recent advances in transport protein structure and function along with established concepts Distinguishes the similarities and differences in the mechanisms of action of transport proteins Provides an up to date discussion of the thermodynamics and kinetics of biomembrane transport Discusses regulation of biomembrane transport Details the importance of biomembrane transport to regulation and interorgan nutrient flows and metabolism Contains a classification scheme for all known transport proteins according to their functions and amino acid residue sequence similarities Presents classical and modern techniques for characterizing transport

ATPases A.G. Lee,1996-12-17 Volume 5 of Biomembranes covers an important group of membrane proteins the ATPases The P type ATPases couple the hydrolysis of ATP to the movement of ions across a membrane and are characterized by the formation of a phosphorylated intermediate Included are the plasma membrane and muscle sarcoplasmic reticulum  $\text{Ca}^{2+}$  ATPases the Na K ATPase the gastric H K ATPase the plasma membrane H ATPase of fungi and plants the  $\text{Mg}^{2+}$  transport ATPase the Salmonella typhimurium and the K ATPase of Escherichia coli KdpB The other important classes of ATPase in eukaryotic systems are the vacuolar H ATPases and the F<sub>0</sub>F<sub>1</sub> ATP synthase and in bacteria the anion translocating ATPases responsible for resistance to arsenicals and antimonials and the Na  $\text{Mg}^{2+}$  ATPase of Acholeplasma Finally eukaryotic systems contain a variety of ectonucleotidases important for example in hydrolysis of extracellular ATP released as a cotransmitter from cholinergic and adrenergic nerve terminals Volume 5 of Biomembranes explores structure function relationships for these membrane bound ATPases

**Wound Healing** Vlad

Alexandrescu,2016-10-12 Outstanding scientific advances over the last decades unceasingly reveal real complexity of wound healing process astonishing in its staged progression as life is unfolding itself This natural course of tissue repair seems to bear thousands of overlapping molecular and macroscopic processes that nowadays only start to unfold to our knowledge The present volume collecting recent scientific references proposes to readers a two folded audacious goal First an updated design of intimate cellular mechanisms is entailed in tissue regeneration that emanates from the first section of the book Next a multidisciplinary therapeutic perspective that focuses on macroscopic healing throughout the second part of this work adds clinically integrated observation Practical diagnostic and treatment information is appended in each chapter that may equally help experienced clinicians or dedicated students and researchers in broadening essential breaking points of their work It is the wish of all multidisciplinary experts who gather prominent author s panel of this volume to incorporate latest medical reports and compel limits of current understanding for better tissue regeneration limb salvage and improved quality

of life of our patients      **Microfluidics Based Microsystems** S. Kakaç,B. Kosoy,D. Li,A. Pramuanjaroenkij,2010-09-10 This volume contains an archival record of the NATO Advanced Study Institute on Microfluidics Based Microsystems Fundamentals and Applications held in e me Izmir Turkey August 23 September 4 2009 ASIs are intended to be high level teaching activity in scientific and technical areas of current concern In this volume the reader may find interesting chapters and various microsystems fundamentals and applications As the world becomes increasingly concerned with terrorism early spot detection of terrorist s weapons particularly bio weapons agents such as bacteria and viruses are extremely important NATO Public Diplomacy division Science for Peace and Security section support research Advanced Study Institutes and workshops related to security Keeping this policy of NATO in mind we made such a proposal on Microsystems for security We are very happy that leading experts agreed to come and lecture in this important NATO ASI We will see many examples that will show us Microfluidics usefulness for rapid diagnostics following a bioterrorism attack For the applications in national security and anti terrorism microfluidic system technology must meet the challenges To develop microsystems for security and to provide a comprehensive state of the art assessment of the existing research and applications by treating the subject in considerable depth through lectures from eminent professionals in the field through discussions and panel sessions are very beneficial for young scientists in the field      Bacterial Membranes and the Respiratory Chain Nina Samoilovna Gel'man,Marina Arturovna Lukoïanova,Dmitrii Nikolaevich Ostrovskii,1975-08 The most valuable service Dr Gel man and her colleagues have performed for the many investigators of bacterial membrane systems in producing their first excellent monograph on The Respiratory Apparatus of Bacteria in 1966 has been continued and expanded in the preparation of this volume The au thors have brought together in a single volume much of the detail of investiga tions of bacterial membranes at the ultrastructura11eve1 and the chemical and biochemical organiza11eve1s The approach in bringing together this rap idly increasing volume of discovery has been both comprehensive and system atic with a constant awareness of the importance of the molecular and func tional properties and relationships existing in various bacterial membranes The monograph naturally reflects the authors interest and their own inti mate involvement in the elucidation at the molecular level of the respiratory chains organized in the prokaryotic bacterial membrane system It is entirely appropriate that the chapter devoted to this topic should occupy a substantial proportion of this monograph Indeed had this volume been prepared at this very moment that proportion would have been even greater as the work in      **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

**Advances in Biomembranes and Lipid Self-Assembly**, 2025-07-01 Advances in Biomembranes and Lipid Self Assembly Volume 41 highlights new advances in the field with this new volume presenting interesting chapters written by an international board of authors Provides the authority and expertise of leading contributors from an international board of authors Presents the latest release in Advances in Biomembranes and Lipid Self Assembly series

Real-Time Systems, Architecture, Scheduling, and Application Seyed Morteza Babamir, 2012-04-11 This book is a rich text for introducing diverse aspects of real time systems including architecture specification and verification scheduling and real world applications It is useful for advanced graduate students and researchers in a wide range of disciplines impacted by embedded computing and software Since the book covers the most recent advances in real time systems and communications networks it serves as a vehicle for technology transition within the real time systems community of systems architects designers technologists and system analysts Real time applications are used in daily operations such as engine and break mechanisms in cars traffic light and air traffic control and heart beat and blood pressure monitoring This book includes 15 chapters arranged in 4 sections Architecture chapters 1 4 Specification and Verification chapters 5 6 Scheduling chapters 7 9 and Real word applications chapters 10 15

**Advances in Candida albicans**, 2021-11-17 Candida albicans a fungal pathobiont is the major component of the microbiota communities in healthy adults It resides in the host's gastrointestinal tract and mouth and can become pathogenic via overgrowth under a variety of conditions This book reviews recent knowledge and the latest research on C albicans including the mechanism of candidiasis infection host response antifungal strategies biofilms genetics and molecular epidemiology of immune responses

Advances in Biomembranes and Lipid Self-Assembly Aleš Iglič, Michael Rappolt, Patricia Losada Perez, 2022-11-23 Advances in Biomembranes and Lipid Self Assembly Volume 36 serial highlights new advances in the field with this new volume presenting interesting chapters Each chapter is written by an international board of authors Provides the authority and expertise of leading contributors from an international board of authors Presents the latest release in Advances in Biomembranes and Lipid Self Assembly series Updated release includes the latest information on Advances in Biomembranes and Lipid Self Assembly

**Drug Discovery and Development** Izet Kapetanović, 2011-12-16 Drug discovery and development process aims to make available medications that are safe and effective in improving the length and quality of life and relieving pain and suffering However the process is very complex time consuming resource intensive requiring multi disciplinary expertise and innovative



approaches There is a growing urgency to identify and develop more effective efficient and expedient ways to bring safe and effective products to the market The drug discovery and development process relies on the utilization of relevant and robust tools methods models and validated biomarkers that are predictive of clinical effects in terms of diagnosis prevention therapy and prognosis There is a growing emphasis on translational research a bidirectional bench to the bedside approach in an effort to improve the process efficiency and the need for further innovations The authors in the book discuss the current and evolving state of drug discovery and development

**Functional Heterogeneities in Biomembranes** Rainer A.

Böckmann,Robert Ernst,Falk Nimmerjahn,2021-09-01

Electrochemistry H. R. Thirsk,1989-03-31 Specialist Periodical

Reports provide systematic and detailed review coverage of progress in the major areas of chemical research Written by experts in their specialist fields the series creates a unique service for the active research chemist supplying regular critical in depth accounts of progress in particular areas of chemistry For over 80 years the Royal Society of Chemistry and its predecessor the Chemical Society have been publishing reports charting developments in chemistry which originally took the form of Annual Reports However by 1967 the whole spectrum of chemistry could no longer be contained within one volume and the series Specialist Periodical Reports was born The Annual Reports themselves still existed but were divided into two and subsequently three volumes covering Inorganic Organic and Physical Chemistry For more general coverage of the highlights in chemistry they remain a must Since that time the SPR series has altered according to the fluctuating degree of activity in various fields of chemistry Some titles have remained unchanged while others have altered their emphasis along with their titles some have been combined under a new name whereas others have had to be discontinued

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