

BIOMEMBRANES

Volume 1

Edited by

Lionel A. Manson

Biomembranes Volume 7

Edward Korn



Biomembranes Volume 7:

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

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

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

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 Biomembrane Structures Parvez I. Haris, 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 *Molecular*

Basis of Biomembrane Transport Ferdinando Palmieri, Ernesto Quagliariello, 1988 **Signal Transduction During Biomembrane Fusion** Danton H. O'Day, 2012-12-02 Signal Transduction during Biomembrane Fusion begins with three review articles that put the problem of signal transduction and biomembrane fusion into a general perspective Each subsequent chapter begins with an introduction which reviews past work on a specific biological system The authors current research is then detailed The chapters conclude with final comments wherein the contributors express viewpoints about the general significance and progression of their work This book comprises 12 chapters with the first focusing on signal transduction during biomembrane fusion The succeeding chapters then discuss the focal membrane fusion model osmotic phenomena in membrane fusion cell signaling and regulation of exocytosis at fertilization of the egg and signal transduction during exocytosis in mast cells Other chapters cover protein kinase c and granule membrane fusion GTP binding proteins and formation of secretory vesicles and signal transduction during phagocytosis The remaining chapters discuss calcium signal transduction pathway and myoblast fusion phospholipid metabolism during calcium regulated myoblast fusion protein kinase c membrane protein phosphorylation and calcium influx in chick embryo skeletal myoblast fusion and signal transduction and cell fusion in dictyostelium This book will be of interest to practitioners in the fields of neurobiology zoology and the biological sciences *Catalog of Copyright Entries. Third Series* Library of Congress. Copyright Office, 1977 **Current**

Topics in Membranes and Transport, 1982-01-06 Current Topics in Membranes and Transport *Biology Bulletin of the Academy of Sciences of the USSR. Akademiiã nauk SSSR.*, 1984 *Biomembranes* Lionel A. Manson, 1971 Vol 2 contains Proceedings of the Symposium on Membranes and the Coordination of Cellular Activities Catlinburg Tenn April 5 8 1971

Blue Light Effects in Biological Systems H. Senger, 2012-12-06 Four years ago The Blue Light Syndrome was published as the Proceedings of the 1 st International Conference on the Effect of Blue Light in Plants and Microorganisms Subsequently the interest in this fascinating and growing field of research has further increased as is reflected by numerous publications Blue light effects cover such a wide spectrum of organisms responses and methods that communication among scientists with backgrounds in biology biochemistry and biophysics is particularly necessary These facts not only justified but demanded calling the Blue Light Family together again In spite of many financial problems the second conference attracted 113 active members from 19 countries The 2nd International Conference on The Effect of Blue Light in Plants and

Microorganisms was held in July 1984 like the first at the University of Marburg The organizer could again rely on the help of the International Advisory Committee W Briggs Stanford M Furuya Tokyo J Gressel Rehovot S Miyachi Tokyo W Rau Miinchen J Schiff Waltham P S Song Lubbock The very generous financial assistance from the DFG and the support of the Philipps Universität Marburg and its Sonderforschungsbereich Zellenergetik and Zelldifferenzierung were the prerequisites to organizing the conference The present book consists of 56 original papers The partitioning into eight chapters is always a problem The grouping of different aspects of the papers into these chapters has not always been obvious so that one or the other contribution could possibly fit in another chapter *Transport Across Single Biological Membranes* D.C.

Tosteson, 2012-12-06 This second Volume in the series on Membrane Transport in Biology contains a group of essays on transport across single biological membranes separating the inside and outside of cells or organelles We have not attempted to include material on all types of plasma and intracellular membranes but rather have emphasized structures which have been studied relatively thoroughly Four chapters describe transport of different types of molecules and ions across the plasma membranes of mammalian red cells Two essays concern the excitable membranes of nerve and muscle cells while the remaining four chapters treat transport across several types of intracellular membranes Water makes up more than two thirds of the mass of most living cells The transport of water between the inside and outside of cells and organelles is important for the function of these structures As a result of investigations in many laboratories over the past four decades our picture of the water permeability of the red cell membranes is rather detailed when compared to the water permeability of other biological membranes In Chapter 1 R I Macey describes this picture and also considers the permeability of red cell membranes to non electrolytes including metabolic substrates such as sugars amino acids purines and nucleosides

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 Biomembrane Frontiers Thomas Jue, Subhash H. Risbud, Marjorie L.

Longo, Roland Faller, 2009-06-13 This is the second book in the Handbook of Modern Biophysics series dedicated to fundamental topics and new applications in biophysics This book on biomembranes covers theory and application and includes problem sets references and guides for further study **Methods in Membrane Biology** Edward Korn, 2012-12-06 Many of the methods now in general use in membrane biology and not already discussed in satisfactory detail elsewhere have been covered in the eight previously published volumes of this series Much of this ninth volume is occupied by one authoritative chapter an unusually thorough and critical review of a relatively new and highly specialized technology that has gained rapid acceptance immunofluorescence and immunoelectron microscopy These are powerful experimental tools applicable in fields much broader than membrane research and employing methods drawn from widely diverse disciplines such as organic chemistry protein chemistry immunology and fluorescence and electron microscopy The temptation to use these superficially and deceptively simple but fundamentally complex methods uncritically is almost overwhelming The chapter by de Petris a pioneer in the field is as necessary as it is rigorous and it should long be the standard in this area of research The second chapter in this volume is a more specialized review by Matus of the procedures for the preparation and characterization of the highly differentiated junctional regions of brain plasma membranes These methods are central to the rapidly growing field of neurobiochemistry membrane biochemistry at perhaps its most intricate

Abiotic Stress Response in Plants Arun Shanker, B. Venkateswarlu, 2011-08-29 Plants unlike animals are sessile This demands that adverse changes in their environment are quickly recognized distinguished and responded to with suitable reactions Drought heat cold and salinity are among the major abiotic stresses that adversely affect plant growth and productivity In general abiotic stress often causes a series of morphological physiological biochemical and molecular changes that unfavorably affect plant growth development and productivity Drought salinity extreme temperatures cold and heat and oxidative stress are often interrelated these conditions singularly or in combination induce cellular damage To cope with abiotic stresses of paramount significance is to understand plant responses to abiotic stresses that disturb the homeostatic equilibrium at cellular and molecular level in order to identify a common mechanism for multiple stress tolerance This multi authored edited compilation attempts to put forth an all inclusive biochemical and molecular picture in a systems approach wherein mechanism and adaptation aspects of abiotic stress are dealt with The chief objective of the book hence is to deliver state of the art information for comprehending the effects of abiotic stress in plants at the cellular level *Advances in Planar Lipid Bilayers and Liposomes* A. Leitmannova Liu, 2011-08-09 *Advances in Planar Lipid Bilayers and Liposomes* Volume 7 continues to include invited chapters on a broad range of topics covering both main arrangements of the reconstituted system namely planar lipid bilayers and spherical liposomes The invited authors present the latest results in this exciting multidisciplinary field of their own research group Many of the contributors working in both fields over many decades were in close collaboration with the late Prof H Ti Tien the founding editor of this book series There are also

chapters written by some of the younger generation of scientists included in this series This volume keeps in mind the broader goal with both systems planar lipid bilayers and spherical liposomes which is the further development of this interdisciplinary field worldwide Contributions from newcomers and established and experienced researchers Exploring theoretically and experimentally the planar lipid bilayer systems and spherical liposomes Indispensable source of information for new scientists

Biochemistry of Sensory Functions L. Jaenicke, 2012-12-06 This volume contains the Proceedings of the 25th Mosbach Colloquium the general theme of which is the Biochemistry of Sensory Functions It was intended continuing the silver tradition of these Colloquia to provide the uninitiated biochemist with an insight into the current status of a line of research in Molecular Biology which more than many other fields in Biochemistry has maintained its contacts with and respect for Physiology The speakers were asked to attempt to outline their topic sufficiently to define the fundamentals and to build up upon this basis the more sophisticated details of their own studies It is for the reader to evaluate how well both organizer and participants have attained this end These Proceedings not only mirror the hubs around which several groups of scientists wheel but may also serve as a source of literature references and for the advanced student as an introduction to this highly up to date branch of Biochemistry although no index is provided as the table of contents is considered sufficient to locate most of the subjects

Bacterial Membranes and the Respiratory Chain Nina Samoilovna Gel'man, Marina Arturovna Lukoianova, 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 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

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