

# **MEMBRANE FLUIDITY**

*Biophysical Techniques and Cellular Regulation*

*Edited by*

**Morris Kates  
and  
Arnis Kuksis**

# Membrane Fluidity Biophysical Techniques And Cellular Regulation

**John R. J. Sorenson**



## **Membrane Fluidity Biophysical Techniques And Cellular Regulation:**

*Membrane Fluidity* Morris Kates, Arnisa Kuksis, 2012-12-06 This book represents the proceedings of a Satellite Symposium of the XIth International Congress of Biochemistry on Control of Membrane Fluidity which was held on July 7 1979 at the Charles H Best Institute University of Toronto Toronto Canada The meeting was organized by M Kates and A Kuksis and was supported by the International Congress of Biochemistry The purpose of the meeting was to review recent progress in many different areas of investigation bearing on the role of lipids in the structural and functional property of the cell membrane commonly referred to as fluidity The aim was to emphasize the factors controlling membrane fluidity as studied in appropriate in vitro and in vivo experiments The Symposium included invited review papers and short papers offered by discussants In assembling the book no distinction has been made between the two types of presentations nor has any significance been attached to the chronological order of their presentation in the Symposium As a result it was possible to provide a much more coherent and continuous presentation than that available at the meeting

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**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 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 **Modulation**

**by Molecular Interactions** Rodney L. Levine, Ann Ginsburg, 2013-10-22 Current Topics in Cellular Regulation Volume 26 Modulation by Molecular Interactions covers various aspects of biochemical regulation that were presented in the International Symposium on the Molecular Basis of Cellular Regulation held at the National Institutes of Health on May 3-5 1984 The book discusses the coordination and control of cellular metabolism and function focusing on modulation by molecular interactions Biochemists molecular biologists geneticists microbiologists and physiologists will find the book invaluable Advances in Lipobiology, Volume 2 R.W. Gross, 1997-10-21 Advances in Lipobiology Volume 2 Current

Catalog National Library of Medicine (U.S.), First multi year cumulation covers six years 1965-70 **Psychrophiles: From Biodiversity to Biotechnology** Rosa Margesin, Franz Schinner, Jean-Claude Marx, Charles Gerday, 2007-12-08 Most scientists in the middle of the twentieth century would probably not have believed that life was possible at extreme values of environmental factors such as pH values close to 0 e.g. sulfurous environments or to 14 e.g. soda lakes salinities of 6 M NaCl e.g. Dead Sea hydrostatic pressures approaching 0.1 MPa deep sea and temperatures exceeding 100 °C thermal vents or hot springs or as low as 20 °C e.g. polar regions Of the current studies on extremophiles approximately 30 000 articles by the year 2007 almost two thirds have been performed on organisms adapted to outstanding temperatures but much more attention has been paid to thermophiles than to psychrophiles However over the past 10 years scientific publications on cold adapted microorganisms have increased by a factor of ten If one considers the extent of cold habitats psychrophiles i.e. cold loving organisms should largely lead in this comparison with thermophiles because a great proportion of the Earth's biosphere never reaches temperatures above 5 °C Nearly three quarters of the Earth is covered by oceans whose deep water masses irrespective of latitude are constantly between 2 and 4 °C The large continent of Antarctica also provides a permanently cold terrestrial environment as well as an aquatic niche in the surrounding ice that melts during the summer Other examples of cold habitats are permafrost soils high alpine soils cold deserts cold caves marine sediments snow glacier and sea ice

*Current Topics in Membranes and Transport*, 1982-06-24 *Current Topics in Membranes and Transport* **Inflammatory**

*Diseases and Copper* John R. J. Sorenson, 2012-12-06 In 1928 it was discovered that copper was essential for normal human metabolism A decade later in 1938 it was observed that patients with rheumatoid arthritis exhibited a higher than normal serum copper concentration that returned to normal with remission of this disease Thirteen years later it was found that copper complexes were effective in treating arthritic diseases The first report that copper complexes had antiinflammatory activity in an animal model of inflammation appeared twenty two years after the discovery of essentiality In 1976 it was suggested that the active forms of the antiarthritic drugs are their copper complexes formed in vivo This suggestion has been confirmed and extended in the interim in over 200 recent publications Individual biomedical scientists from many countries who have published in these areas recently saw a need for a meeting to exchange current re supporting new hypotheses We search results and discuss the evidence met on the University of Arkansas Medical Sciences campus in Little Rock Arkansas August 10 13 1981 Participants came from Australia England France Germany Israel Italy The Netherlands Norway Poland Scotland Sweden Switzerland Wales Zimbabwe and over twenty of the United States

**Recent Advances in Tryptophan Research** Graziella Allegri, Carlo V.L. Costa, Antonella Bertazzo, 2012-12-06 Wide and fascinating is the field of research on tryptophan a most versatile amino acid transformed as it is in our organism into many biologically active substances This volume contains the proceedings of the Eighth International Meeting on Tryptophan Research held at the University of Padova Padova Italy from June 25 to 29 1995 under the auspices of the University of Padova National Research Council Italian Chemical Society Division of Pharmaceutical Sciences Region of the Veneto and City of Padova The meeting was held in Padova to commemorate Prof Luigi Musajo twenty years after his death and the editors dedicate this book to him in recognition of his pioneering work in tryptophan metabolism Prof Osamu Hayaishi delivered the Musajo Memorial Award Lecture Tryptophan oxygenase and sleep Figure I shows the ISTRY President Prof Simon N Young presenting the Musajo Memorial Medal to Prof Hayaishi during the Opening Ceremony Two hundred scientists from twenty two countries participated in the meeting These proceedings contain 121 papers encompassing a variety of topics and disciplines

**Chromatography of Lipids in Biomedical Research and Clinical Diagnosis** A. Kuksis, 1987-01-01 This multi author volume provides an unprecedented in depth coverage of the separation identification and quantitation of simple and complex food and tissue fats and other lipids by chromatographic and mass spectrometric methods with emphasis on applications to biomedical research and clinical diagnosis It contains a total of 13 chapters written by scientists who are internationally recognized in their specific fields The volume covers analyses of molecular species of eicosanoids sterols and glycerolipids in healthy and diseased human tissues and in appropriate animal models The text complements the simpler group determinations of lipid classes commonly employed in clinical laboratories The volume anticipates the discovery of the specific metabolism of molecular species of complex glycerolipids and provides the medical researcher and clinical investigator with the means for dealing with it

International Symposium: Retroviruses and Human Pathology Robert C.

Gallo, Dominique Stehelin, Oliviero E. Varnier, 2012-12-06 For decades retroviruses have been riding the crest of a wave of experimental research directed toward the identification of an infectious agent of human neoplastic diseases In the early 1970s several scientists successfully demonstrated the presence of retroviruses in numerous animal species and proved their etiological role in some related diseases Corresponding findings in humans were somewhat discouraging Although financial support for this line of research declined a few dedicated retrovirologists survived and continued to collect more biological information and technological expertise that opened a new approach to the search for a human retrovirus The rewards came with the discovery that the genes responsible for neoplastic transformation oncogenes are of cellular origin and can be shuttled about by retroviruses and with the identification of a new family of Human T cell Lymphotropic retroViruses HTLV from patients with diseases ranging from leukemia to the acquired immunodeficiency syndrome AIDS An understanding of the role and significance of retroviruses in human pathology requires basic knowledge of the major animal systems studied With this perspective in mind we present here a survey that includes general overviews minireviews on each animal system studied with selected experimental reports and finally a stimulating review of the field of human retrovirology by many of the pioneer scientists who created it We are especially grateful to Profs C A Romanzi and G C Schito for promoting the organization of the Symposium On behalf of the Symposium Committee we thank E Soeri L Casarino G P Gesu M

**Immune Regulation** Marc Feldmann, N. A. Mitchison, 2012-12-06 Leukocyte culture conferences have a long pedigree This volume records some of the scientific highlights of the 16th such annual conference and is a witness to the continuing evolution and popularity of leukocyte culture and of immunology There is strong evidence of the widening horizons of immunology both technically with the obviously major impact of molecular biology into our understanding of cellular processes and also conceptually Traditionally the proceedings of these conferences have been published But have the books produced really recorded the major part of the conference the informal friendly but intense and some times heated exchanges that take place between workers in tackling very similar problems and systems and which are at the heart of every successful conference Unfortunately this essence cannot be incorporated by soliciting manuscripts For this reason we have changed the format of publication retaining published versions of the symposium papers but requesting the workshop chairmen to produce a summary of the major new observations and areas of controversy highlighted in their sessions as a vehicle for defining current areas of interest and debate Not an easy task as the workshop topics were culled from the abstracts submitted by the participants rather than being on predefined topics The unseasonal warmth in Cambridge was reflected in the atmosphere of the conference the organization of which benefited from the administrative skills of Jean Bacon Philippa Wells Mr Peter Irving and Mrs Phospholipids, 1982-01-01 The book discusses the essential chemistry of phospholipids along with an account of the metabolism The phospholipases and phospholipase A2 is explained since its structure and the mechanism of its action have been investigated in greater detail than any other phospholipid metabolising

enzyme The increasingly important topic of phospholipid exchange proteins is also treated Furthermore since the use of biochemically defined mutants shows great promise for the better understanding of phospholipid biosynthesis and function the book also discusses genetic control of the enzymes involved *Methods in Protein Sequence Analysis* · 1986 Kenneth A. Walsh, 1987-06-17 *Methods in Protein Sequence Analysis* 1986 brings together reports of the most recent methodology available to protein chemists for studying the molecular detail of proteins The papers in this volume constitute the proceedings of the Sixth International Conference on Methods in Protein Sequence Analysis which was held at the University of Washington in Seattle Washington on August 17 21 1986 This series of conferences has taken place during a period when new techniques in protein chemistry and molecular biology have enabled not only exploration of the control of protein function but also deduction of the genetic origin of proteins and laboratory generation of rare protein molecules for therapeutic and commercial use The current reports are focused on the means by which experimental questions can be answered rather than on the biological implications in specific systems The scope of the meeting was quite broad emphasizing microanalytical techniques and the relative merits of DNA sequencing mass spectrometry and more traditional degradation techniques A highlight of the meeting was the growing awareness of the role of mass spectrometry In the analysis of proteins The complementarity of protein sequencing and DNA sequencing techniques was apparent throughout the discussions and several papers dealt with the strategy of obtaining sequence information from small amounts of protein in order that appropriate oligonucleotide probes could be constructed and the encoding nucleic acids sequenced and manipulated

**Structure and Properties of Cell Membrane Structure and Properties of Cell Membranes** 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

**Regulation of Immune Gene Expression** Marc Feldmann, Andrew McMichael, 2012-12-06 This book encompasses the proceedings of a conference held at Trinity College Oxford on September 21 25 1985 organized by a committee comprised of Drs M Crumpton M Feldmann A McMichael and E Simpson and advised by many friends and colleagues The immune response gene workshops that took place were based on the need to understand why certain experimental animal strains were high responders and others were low responders It was assumed that identification of the immune response Ir genes and definition of their products would explain high and low responder status Research in the ensuing years has identified the Ir gene products involved in antibody responses as the Ia antigens or MHC Class II antigens These proteins are now well defined as members of the immunoglobulin gene superfamily and their domain structure is known Epitopes have been

defined by multiple mono clonal antibodies and regions of hypervariability identified Their genes have been identified and cloned The basic observation of high and low responsive ness to antigen is still not understood in mechanistic terms however at either the cellular or molecular level This is because the rate of progress in immune regulation has been far slower than in the molecular biology of the MHC Class II antigens This is not surprising since immune regulation is a very complex field at the crossroads of many disciplines

*Membrane Structure in Disease and Drug Therapy* Svante Cornell,2000-05-10 This study asserts that cellular and intracellular membranes are active in every aspect of the body s physiology and pathophysiology It compares secondary through to quaternary structures and protien sequences and guages their influence on health disease and drug therapy The book highlights the importance of correlations homologies and categori

*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



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