

Membrane Fluidity And Cholesterol

J. Robin Harris

Biological Effects of Cholesterol Oxides Shi-Kaung Peng, Robert J. Morin, 1991-11-22 In recent years, researchers have accumulated a growing body of evidence linking cholesterol oxides with human diseases such as atherosclerosis and cancer. This book presents what is presently known about the biological activities of cholesterol oxides and is intended to stimulate thinking in new areas of diet-heart or diet-cancer research. Topics discussed include the oxidation of cholesterol, methods of analysis of cholesterol oxides, cholesterol oxide content in foods, effects of cholesterol oxides on cell membranes, and cytotoxicity of cholesterol oxides. The book will be an essential reference source for researchers working directly with cholesterol and cholesterol oxides, as well as researchers concerned with the wider aspects of chemistry, biology, and medicine.

Membrane Physiopathology Ghassan Bakaili, 2012-12-06 The need for publishing a comprehensive review of a number of different membrane pathologies of muscle and non-muscle cells in illnesses ranging from diabetes to heart disease and cancer lies on to the fact that there are several books dealing with the properties of normal cell membranes, although there are very few books focussing on the abnormal membrane behavior. Since the membrane is the critical outer barrier of a cell, this membrane could be the first structure to be affected in some diseases. Research is advancing at the cellular level at a very rapid rate. We can now address questions such as: How and by what is the mechanism underlying membrane ion channel and receptor dysfunction leading to abnormal cell function? and What substances cause dysfunction in specific ion channels or receptors?. Such questions bring together the microscopic world of the cell with the macroscopic manifestation of disease. We believe that a book such as this one would help researchers, physicians, and students to better understand the relationship between cell membrane dysfunction and abnormal function of the cell and tissue. This book is intended for practicing clinicians and academic researchers, as well as resident physicians, medical students and graduate students. Hopefully, such a treatise will help to fill an important gap between basic science and clinical science. We are greatly indebted to all the distinguished and highly qualified researchers from university and industrial milieus who contributed to this book. Finally, we would like to thank the publishers for their confidence and cooperation in making this book available for the medical sciences.

Cholesterol Regulation of Ion Channels and Receptors Irena Levitan, Francisco Barrantes, 2012-06-12 Examines new

research on the role of cholesterol in regulating ion channels and receptors and its effect on health. Drawing together and analyzing all the latest research findings, this book explores the role of cholesterol in the regulation of ion channels and receptors, including its pathological effects. It is the first book to comprehensively describe the complex mechanisms by which cholesterol regulates two major classes of membrane proteins. Moreover, it sheds new light on how cholesterol affects essential cellular functions such as the contraction of the heart, propagation of nerve impulses, and regulation of blood pressure and kidney function. Written and edited by leading pioneers in the field, *Cholesterol Regulation of Ion Channels and Receptors* is divided into three parts: Part I, *Cholesterol Regulation of Membrane Properties*, introduces the heterogeneity of cholesterol distribution in biological membranes and the physical and biological implications of the formation of cholesterol-rich membrane domains. Part II, *Cholesterol Regulation of Ion Channels*, examines the mechanisms underlying cholesterol sensitivities of ion channels, including the regulation of ion channels by cholesterol as a boundary lipid. Part III, *Cholesterol Regulation of Receptors*, explores the latest discoveries concerning how cholesterol regulates distinct types of receptors, including G-protein coupled receptors, LDL and scavenger receptors, and innate immune system receptors. Increased levels of cholesterol represent a major health risk. Understanding cholesterol regulation of ion channels and receptors is essential for facilitating the development of new therapeutic strategies to alleviate the impact of pathological cholesterol conditions. With this book as their guide, readers have access to the most current knowledge in the field.

Cholesterol Binding and Cholesterol Transport Proteins: J. Robin Harris, 2010-03-10 Knowledge of cholesterol and its interaction with protein molecules is of fundamental importance in both animal and human biology. This book contains 22 chapters, dealing in depth with structural and functional aspects of the currently known and extremely diverse unrelated families of cholesterol-binding and cholesterol transport proteins. By drawing together this range of topics the Editor has attempted to correlate this broad field of study for the first time. Technical aspects are given considerable emphasis, particularly in relation cholesterol reporter molecules and to the isolation and study of membrane cholesterol- and sphingomyelin-rich raft domains. Cell biological, biochemical and clinical topics are included in this book, which serve to emphasize the acknowledged and important benefits to be gained from the study of cholesterol and cholesterol-binding proteins within the biomedical sciences and the involvement of cholesterol in several clinical disorders. It is hoped that by presenting this topic in this integrated manner that an appreciation of the fact that there is much more that needs to be taken into account, studied and understood than the widely discussed bad and good cholesterol associated, respectively, with the low- and high-density lipoproteins, LDL and HDL.

Membrane Fluidity in Biology Roland C. Aloia, Joan M. Boggs, 2013-09-24 *Membrane Fluidity in Biology, Volume 3: Disease Processes* focuses on the relationship of membrane lipid alterations and membrane fluidity to various pathological conditions, providing unique phenomenological conceptualizations of disease states. This book compiles comprehensive

reviews on topics such as respiratory distress syndrome, diabetes and receptor function, muscular dystrophies, atherosclerosis, alcohol-membrane effects, and lymphocyte function and cancer. This publication also evaluates the interplay between membrane lipid alterations and membrane fluidity and abnormal cellular function, emphasizing how possible alterations in membrane lipids and cholesterol, and consequent changes in membrane fluidity can influence normal cellular activity and lead to pathological cellular function. This volume is intended for molecular and cellular biologists, clinician-scientists struggling with an understanding of the mechanisms of pathological processes, and biophysicists seeking research problems in pathology to study.

Mobility and Proximity in Biological Membranes S. Damjanovich, 2018-01-18 Cell surface membranes have long been characterized as two-dimensional fluids whose mobile components are randomized by diffusion in the plane of the membrane bilayer. Recent research has indicated that cell surface membranes are highly organized and ordered and that important functional units of membranes appear as arrays of interacting molecules rather than as single, freely diffusing molecules. *Mobility and Proximity in Biological Membranes* provides an overview of the results obtained from biophysical methods for probing the organization of cell surface membranes. These results are presented in the context of detailed treatments of the theory and the technical demands of each of the methods. The book describes a versatile and easily applied mode for investigating molecular proximities in plasma membranes in a flow cytometer. Its analysis of lipid fluidity and viscosity of membranes and the rotational mobility of proteins offers intimate insight into the physical chemistry of biological membranes. The electrophysiology of lymphocytes is presented with focus on its importance in different diseases. New techniques are described, and new data, new possibilities, and future trends are presented by world experts. This book's chapters can serve both as guides to the existing literature and as starting points for new experiments and approaches associated with problems in membrane function.

The Neurobehavioral Treatment of Epilepsy David I. Mostofsky, Yngve Loyning, 2013-07-04 This volume is a first of its kind, addressed principally to the professional reader. While it is not intended to be exhaustive, its aim is to sketch a broad picture of some of the nondrug and nonsurgical treatment strategies with a demonstrated basis in conventional scientific method. Likewise, though it does not include all those who have contributed to the emergence of this exciting new field, it assembles those authors whose seminal work has earned them international reputations. This volume's declared purpose is to provide a state-of-the-art guide to methods and techniques in the behavioral treatment of epilepsy and to their basis in theory. The editors hope that it will catalyze the evolution of their acceptance as standard elements, where appropriate, in the clinical activities of independent practitioners, clinics, and agencies that service those with convulsive disorders.

Basic Concepts in Biochemistry: A Student's Survival Guide Hiram F. Gilbert, 2000 *Basic Concepts in Biochemistry* has just one goal: to review the toughest concepts in biochemistry in an accessible format so your understanding is thorough and

complete.--BOOK JACKET.

Membrane Biomechanics ,2020-10-23 Membrane Biomechanics, Volume 86, the latest release in the Current Topics in Membranes series, highlights new advances in the field, with this new volume presenting interesting chapters on Lipid bilayers: phase behavior and mechanics, Molecular mechanisms of cell membrane structure modification by omega-3 fatty acids, Mechanical properties of magnetoliposomes, Mechanosensitive ion channels and membrane tension, From cell membrane to the nuclear membrane through modulation of cytoskeleton, Endothelial stiffness in dyslipidemia and aging, Vascular smooth muscle stiffness in aging and vascular disease, Mechanobiology of macrovesicle release and activation, Interplay of membrane cholesterol and substrate on vascular smooth muscle mechanics, and more. - Provides the authority and expertise of leading contributors from an international board of authors - Presents the latest release in the Current Topics in Membranes series - Includes the latest information on Membrane Biomechanics

Textbook of Membrane Biology Rashmi Wardhan,Padmashree Mudgal,2018-01-10 This book provides a comprehensive overview of the basic principles, concepts, techniques and latest advances in the field of biomembranes and membrane-associated processes. With new emerging technologies and bioinformatics tools, this is a promising area for future study and research. The book discusses the composition, fluidity and dynamic nature of phospholipid bilayers, which vary with cell/organelle type and function. It describes the various types of transport proteins that facilitate the transport of polar and nonpolar molecules across the membrane actively or passively via ion-channels or through porins. It also explores the many cellular functions membranes participate in: (1) energy transduction, which includes the electron transport chain in inner membrane of mitochondria and bacterial cytoplasmic membrane and photosynthetic electron transport in thylakoid membranes in chloroplast and photosynthetic bacterial membranes; (2) cell-cell communication involving various signal transduction pathways triggered by activated membrane receptors; (3) cell-cell interactions involving various types of adhesion and receptor proteins; (4) nerve transmission involving opening and closing of voltage gated ionic channels; and (5) intracellular transport involving the processes of endocytosis, exocytosis, vesicular transport of solutes between intracellular compartments, membrane fusion and membrane biogenesis.

Sterols and Bile Acids ,1985-01-01 Sterols and Bile Acids

Molecular Cell Biology Harvey F. Lodish,2008 The sixth edition provides an authoritative and comprehensive vision of molecular biology today. It presents developments in cell birth, lineage and death, expanded coverage of signaling systems and of metabolism and movement of lipids.

Fluorescence Studies on Biological Membranes Herwig J. Hilderson,2012-12-06 As stated by its first editor, Dr. D. B. Roodyn, the primary goal of the series Subcellular Biochemistry is to achieve an integrated view of the cell by bringing together results from a wide range of different techniques and disciplines. This volume deals with the applications of

fluorescence spectroscopy to membrane research. It seeks to present complementary biochemical and bio physical data on both the structure and the dynamics of biological membranes. Biophysics and biochemistry are improving more and more in their ability to study biomembranes, overlapping somewhat in this area and explaining the functioning of the whole cell in terms of the properties of its individual components. Therefore, we have brought together an international group of experts in order to report on and review advances in fluorescence studies on biological membranes, thereby highlighting subcellular aspects. The first chapters present a critical evaluation of the current applications of dynamic and steady-state fluorescence techniques. Subsequent chapters discuss more specific applications in cells, biological membranes, and their constituents (lipids, proteins).

Biochemistry of Lipids, Lipoproteins and Membranes J.E. Vance, Dennis E. Vance, 1991-12-17 The second edition of this book on lipids, lipoprotein and membrane biochemistry has two major objectives - to provide an advanced textbook for students in these areas of biochemistry, and to summarise the field for scientists pursuing research in these and related fields. Since the first edition of this book was published in 1985 the emphasis on research in the area of lipid and membrane biochemistry has evolved in new directions. Consequently, the second edition has been modified to include four chapters on lipoproteins. Moreover, the other chapters have been extensively updated and revised so that additional material covering the areas of cell signalling by lipids, the assembly of lipids and proteins into membranes, and the increasing use of molecular biological techniques for research in the areas of lipid, lipoprotein and membrane biochemistry have been included. Each chapter of the textbook is written by an expert in the field, but the chapters are not simply reviews of current literature. Rather, they are written as current, readable summaries of these areas of research which should be readily understandable to students and researchers who have a basic knowledge of general biochemistry. The authors were selected for their abilities both as researchers and as communicators. In addition, the editors have carefully coordinated the chapters so that there is little overlap, yet extensive cross-referencing among chapters.

Membrane Lipidomics for Personalized Health Carla Ferreri, Chrysostomos Chatgililoglu, 2015-06-26 Lipidomics is an important aspect of personalized medicine in relation to nutrition and metabolism. This approach has become important due to the substantial presence of nutraceuticals in the market, since it gives personalized criteria on how to choose the right nutraceutical strategy for both prevention and for quality of life. This multi-disciplinary textbook uses a simple and practical approach to provide a comprehensive overview of lipidomics and their connection with health and nutrition. The text is divided into two parts: - Part 1 outlines the basics of lipidomics and focuses on the biochemical and nutritional aspects with descriptions of the analytical methods employed for the examination of cell membrane fatty acid composition. - Part 2 familiarizes the reader with the use of membrane lipidomic diagnostics in practical health care, using health conditions as examples to introduce the concept of lipidomic profiles in different physiological and pathological situations including

prevention. Through the various properties of membrane lipidomics, readers will be able to combine the molecular status of the cell membrane with the evaluation of the subject for personalized nutritional and nutraceutical strategies. Membrane Lipidomics for Personalized Health will be beneficial to biologists, biochemists and medical researchers, as well as health care professionals, pharmacists, and nutritionists seeking in-depth information on the topic.

Membrane Biology and Bioenergetics Mr. Rohit Manglik, 2024-06-24 Studies membrane structure, transport mechanisms, and bioenergetics, focusing on ATP synthesis and cellular energy processes in biology.

General Principles Ronald Aloia, 2012-12-02 Membrane Fluidity in Biology, Volume 2: General Principles provides an introduction to the fundamental concepts of membrane fluidity. Key topics discussed include lateral phase separations and phase transitions; hydrophobic and electrostatic effects of membrane lipid-protein interactions; isothermal phase transitions and the effects of ionic factors; and the influence of such components as cholesterol, phospholipids, fatty acids, and cellular water on the parameters of membrane fluidity. Each of these topics is elaborated in detail to provide a unique insight into the factors influencing the thermal molecular motions of membrane components, and hence cellular membrane function. Because such activities as membrane transport, enzyme kinetics, and receptor function are modulated by the physical state of the membrane lipids and proteins, a thorough comprehension of the molecular aspects of membrane fluidity is necessary to evaluate the arcane aspects of membrane-related cellular activities. This book will be useful to scientists and researchers concerned with the molecular principles of cellular and organelle function. It also provides an appropriate background for Volume 3, Cellular Aspects and Disease Processes, and for subsequent discussion of the relationship of membrane fluidity to environmental parameters, drugs, anesthetics, and other exogenous agents.

Organization of Prokaryotic Cell Membranes Bijan K. Ghosh, 2018-01-18 This book has information about prokaryotes, prokaryotes are single-celled organisms that are the earliest and most primitive forms of life on earth. As organized in the Three Domain System, prokaryotes include bacteria and archaeans. Some prokaryotes, such as cyanobacteria, are photosynthetic organisms and are capable of photosynthesis. There are sections in this book that explain the role of membranes in transport, about bioenergetics of bacteria cells, Mycoplasma, immunology of bacteria membrane and receptors.

Structure and Properties of Cell Membrane 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.

The Pharmacological Effect of Lipids III Jon J. Kabara,1989

Unveiling the Energy of Verbal Artistry: An Mental Sojourn through **Membrane Fluidity And Cholesterol**

In a world inundated with displays and the cacophony of fast communication, the profound energy and mental resonance of verbal beauty usually disappear into obscurity, eclipsed by the constant onslaught of noise and distractions. Yet, nestled within the musical pages of **Membrane Fluidity And Cholesterol**, a charming work of fictional brilliance that pulses with raw feelings, lies an wonderful trip waiting to be embarked upon. Written with a virtuoso wordsmith, this mesmerizing opus manuals viewers on an emotional odyssey, gently revealing the latent potential and profound impact embedded within the intricate internet of language. Within the heart-wrenching expanse of the evocative examination, we shall embark upon an introspective exploration of the book is key subjects, dissect their fascinating publishing model, and immerse ourselves in the indelible effect it leaves upon the depths of readers souls.

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