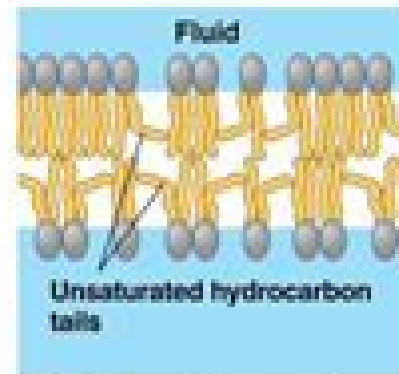
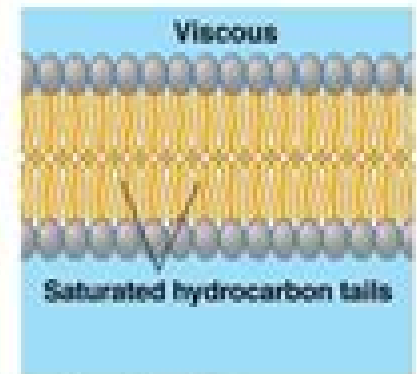


Membrane fluidity

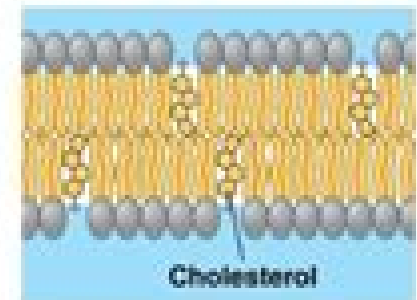
- **Low temps:** phospholipids w/unsaturated tails (kinks prevent close packing)
- **Cholesterol** resists changes by:
 - ◆ limit fluidity at high temps
 - ◆ hinder close packing at low temps
- **Adaptations:**
 - ◆ bacteria in hot springs (unusual lipids);
 - ◆ winter wheat (↑ unsaturated phospholipids) –adapted to cold winter



(a) Unsaturated versus saturated hydrocarbon tails



(b) Cholesterol within the animal cell membrane



Biomembranes Vol 12 Membrane Fluidity

Lester Packer



Biomembranes Vol 12 Membrane Fluidity:

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 **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 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

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 *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 in 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 **Glycolipids, Phosphoglycolipids, and**

Sulfoglycolipids Morris Kates, 2013-06-29 The early history and development of the field of glycolipids was concerned mainly with the predominant glycolipids found in higher animal tissues namely the glycosphingolipids as has been extensively

documented by J N Kanfer and S Hakomori in Volume 3 of this series The major glycolipids in organisms of the plant kingdom however such as bacteria yeasts and fungi algae and higher plants are glycoglycerolipids although glycosphingolipids are also present as minor components in these organisms except for bacteria It is of interest that one of the pioneers in glycosphingolipid research Herbert E Carter also pioneered the discovery and structural elucidation of the plant galactosyldiacylglycerols This class of glycolipids is present in chloroplast membranes and must surely be one of the most ubiquitous and abundant natural substances in the world thereby deserving the attention of lipid biochemists It is therefore surprising to learn that in contrast to the glycosphingolipids which were discovered in the 1870s glycoglycerolipids were not discovered until the 1950s Since that time investigations of the structure and distribution of these glycolipids have proceeded at an exponentially increasing rate and much information is now available for representatives of many genera of bacteria yeasts algae and higher plants Glycoglycerolipids have also been identified in animal cells particularly in the brain testes and sperm

Lipid Polymorphism and Membrane Properties, 1997-10-02 The major lipid components of biological membranes can undergo many diverse and fascinating morphological rearrangements Studies of these diverse phases and the manner in which they are formed tends to alter the properties of ordinary bilayer membranes This book examines the structural and biological roles of lipids forming non lamellar structures Key Features Characterization of non lamellar structures Protein activity and membrane properties Analysis of membrane fusion Affect of non lamellar forming lipids on biological systems

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 biophysical 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

Vitamin E in Health and Disease Lester Packer, 2023-06-14 Probes developments and trends in research and clinical applications of vitamin E discussing its chemistry and biochemistry and natural occurrence in nuts seeds whole grains and vegetable and fish liver oils The book covers new findings on the role of vitamin E as a biological response modifier

Biomembranes: Physical aspects Meir Shinitzky, 1993 **Liquid Interfaces In Chemical, Biological And Pharmaceutical Applications** Alexander G. Volkov, 2001-01-30 Provides a comprehensive treatment of surface chemistry

and its applications to chemical engineering biology and medicine Focuses on the chemical and physical structure of oil water interfaces and membrane surfaces Details interfacial potentials ion solvation and electrostatic instabilities in double layers

Adaptations to Salinity and Dehydration R. Kirsch, B. Lahlou, 1987-07-03 **Temperature Adaptation of Biological Membranes** Andrew R. Cossins, Society for Experimental Biology (Great Britain), 1994 This volume sets out to summarize current knowledge of physical structural adaptations of membranes to fluctuations of temperature Temperature is one of the most potent perturbing influences on membranes and so it provides a useful model for analyzing how they respond to other stressful conditions Omega-3 Fatty Acids and the DHA Principle Raymond C. Valentine, David L. Valentine, 2009-12-03 The physical chemical properties of the omega 3 fatty acid DHA docosahexaenoic acid enable it to facilitate rapid biochemical processes in the membrane This effect has numerous benefits including those involved in the growth of bacteria rapid energy generation human vision brain impulse and photosynthesis to name a few Yet DHA also carries Journal of Bioenergetics and Biomembranes, 1989 Membrane Fusion Jan Wilschut, 2019-11-14 This balanced volume provides a broad and coherent overview of recent progress in membrane fusion research highlighting an interdisciplinary treatment of the subject from the fields of biophysics biochemistry cell biology virology and biotechnology in a single volume Featuring easy access sections on the general properties of membranes and applications of membrane fusion techniques this valuable sourcebook outlines membrane structure lipid polymorphism and intermembrane forces covers membrane fusion in model systems presents the fusogenic properties of enveloped viruses discusses the fusion and flow of intracellular membranes and cell cell fusion occurring during fertilization and myogenesis offers applications of membrane fusion techniques in cell biological research and biotechnology and more Supplying a comprehensive view of this exciting topic Membrane Fusion is a working resource for molecular cell and membrane biologists biophysicists biochemists virologists biotechnologists microbiologists immunologists physiologists and graduate and medical school students in biophysics biochemistry physiology virology cell biology and biotechnology NMR: Principles and Applications to Biomedical Research Jay W. Pettegrew, 2012-12-06 Nuclear magnetic resonance NMR is having an enormous impact on biomedical research both at the basic science and clinical levels In order to appreciate the elegance and power of this technology a historical perspective is in order In 1924 Pauli suggested that hydrogen nuclei might possess a magnetic moment This was in fact confirmed by Rabi in 1939 who demonstrated that a beam of hydrogen molecules in the presence of a magnetic field could be rotated by radio frequency fields resonating at the Larmor frequency The first successful NMR experiments in condensed matter were independently conducted in late 1945 by Purcell Torrey and Pound and by Bloch Hansen and Packard The Purcell group detected proton NMR in solid paraffin and the Bloch group detected proton in liquid water Bloch and Purcell received the Nobel Prize in physics in 1952 for these observations Until about 1952 studies of liquids and solids with broad resonance lines dominated the field of NMR However the reports of ^3P NMR chemical shifts in

several compounds in 1949 by Knight of ^{14}N resonances in several ions by Proctor and Yu in 1950 and of ^{19}F resonances in several compounds in 1950 by Dickinson led to the development of high resolution NMR in liquids since the molecular motions in liquids result in very narrow lines compared to those in solids much smaller chemical shifts could be detected

Freeze Fracture Images of Cells and Tissues Richard L. Roberts, Richard G. Kessel, Hai-Nan Tung, 1991 The freeze fracture technique coupled with transmission electron microscopy has contributed significant scientific information toward the experimental investigation of both normal and abnormal cells in the fields of cellular developmental and molecular biology and to several subdisciplines in medicine including pathology anatomy and physiology This book presents a complete and up to date account of the macromolecular organization of membranes and the many membrane specialization of cells as well as overall cellular organization as reflected in tissues and organs While the book emphasizes freeze fracture images and the useful scientific information contained in them the authors have also included transmission electron micrographs of ultrathin sectioned cells tissues and organs in order to aid in the interpretation of the freeze fracture image and increase the book's utility Where three dimensional views are particularly useful scanning electron micrographs are included

Liposomes as Tools in Basic Research and Industry (1994) Jean R. Philippot, Francis Schuber, 2017-11-22 This book is devoted to a broader understanding of liposomes as a versatile tool used in many domains including basic research and applied technology focusing on less common applications and recent developments Over the past few years new types of liposomes made of nonphospholipid molecules have opened new perspectives in applications These lipid vesicles already used in cosmetology are being manufactured for industrial and agricultural uses However Stealth liposomes pH sensitive liposomes and cationic liposomes have enlarged and improved the application field of liposomes in clinical research The book covers these different uses of liposomes with particular attention to new formulations and new applications Molecular Biology of the Cell Bruce Alberts, Dennis Bray, John Howard Wilson (biochemist), Hunt, Julian Lewis, Martin Raff, Keith Roberts, James D. Watson, 1989-01-01 New edition of a text in which six researchers from leading institutions discuss what is known and what is yet to be understood in the field of cell biology The material on molecular genetics has been revised and expanded so that it can be used as a stand alone text A new chapter covers pathogens infection and innate immunity Topics include introduction to the cell basic genetic mechanisms methods internal organization of the cell and cells in their social context The book contains color illustrations and charts and the included CD ROM contains dozens of video clips animations molecular structures and high resolution micrographs Annotation copyrighted by Book News Inc Portland OR

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