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Edited by
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Permeability And Stability Of Lipid Bilayers

E. Anibal Disalvo, Sidney A. Simon



Permeability And Stability Of Lipid Bilayers:

Permeability and Stability of Lipid Bilayers E. Anibal Disalvo, Sidney A. Simon, 2017-12-14 This book presents a comprehensive and coherent picture of how molecules diffuse across a liquid that is on average only two molecules thick It begins by characterizing bilayers structurally using X ray diffraction and then mechanically by measuring elastic moduli and mechanisms of failure Emphasis is placed on the stability and mechanical properties of plant membranes that are subject to very large osmotic and thermal stresses Using this information the transport of molecules of increasing complexity across bilayers is analyzed

Methods in Membrane Lipids Alex M. Dopico, 2007-08-30 This book presents a compendium of methodologies for the study of membrane lipids varying from traditional lab bench experimentation to computer simulation and theoretical models The volume provides a comprehensive set of techniques for studying membrane lipids with a strong biophysical emphasis It compares the various available techniques including the pros and cons as seen by the experts

The Structure of Biological Membranes 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 pro *Molecular Biology and Physiology of Water and Solute Transport* Stefan Hohmann, Søren Nielsen, 2012-12-06 Biophysical studies in the 1950ies and 1960ies led to the realization that the water permeability of certain biological membranes must be due to the presence of water transporting proteins This hypothesis was confirmed in 1991 and 1992 with the pioneering discovery of the first molecular membrane water channel CHIP28 by Agre and coworkers This integral membrane protein which is abundant in the erythrocyte membrane and in many epithelial cells is now called aquaporin 1 or AQP1 Thus the terms water channel or aquaporin are synonymous In July 2000 more than 200 researchers came together in Gothenburg Sweden for the 3rd International Conference on the Molecular Biology and Physiology of Water and Solute Transport to discuss progress in this emerging research field 58 different presentations from this conference are the basis for this book Cumulatively these 58 short chapters provide a balanced overview complementing numerous recent reviews in this field

Surface Chemistry and Electrochemistry of Membranes Torben Smith Sorenson, 1999-02-16 An eclectic mix of studies on chemical and electrochemical behaviour of membrane surfaces The book looks at membranes both organic and inorganic from a host of different perspectives and in the context of many diverse disciplines It explores the behaviours of both synthetic and biological membranes employing physical chemical and physiochemical perspectives and blends state of the art research of many disciplines into a coherent whole

Diffusion in Condensed Matter Paul Heitjans, Jörg Kärger, 2006-01-16 Diffusion as the process of particle transport due to stochastic movement is a phenomenon of crucial relevance for a large variety of processes and materials This comprehensive handbook style survey of diffusion in condensed matter gives detailed insight into diffusion as the process of

particle transport due to stochastic movement Leading experts in the field describe in 23 chapters the different aspects of diffusion covering microscopic and macroscopic experimental techniques and exemplary results for various classes of solids liquids and interfaces as well as several theoretical concepts and models Students and scientists in physics chemistry materials science and biology will benefit from this detailed compilation

Membrane Organization and Dynamics

Amitabha Chattopadhyay, 2017-12-06 This volume brings together information on membrane organization and dynamics from a variety of spectroscopic microscopic and simulation approaches spanning a broad range of time scales The implication of such dynamic information on membrane function in health and disease is a topic of contemporary interest The chapters cover various aspects of membrane lipid and protein dynamics explored using a battery of experimental and theoretical approaches The synthesis of information and knowledge gained by utilizing multiple approaches will provide the reader with a comprehensive understanding of the underlying membrane dynamics and function which will help to develop robust dynamic models for the understanding of membrane function in healthy and diseased states In the last few years crystal structures of an impressive number of membrane proteins have been reported thanks to tremendous advances in membrane protein crystallization techniques Some of these recently solved structures belong to the G protein coupled receptor GPCR family which are particularly difficult to crystallize due to their intrinsic flexibility Nonetheless these static structures do not provide the necessary information to understand the function of membrane proteins in the complex membrane milieu This volume will address the dynamic nature of membrane proteins within the membrane and will provide the reader with an up to date overview of the theory and practical approaches that can be used This volume will be invaluable to researchers working in a wide range of scientific areas from biochemistry and molecular biology to biophysics and protein science Students of these fields will also find this volume very useful This book will also be of great use to those who are interested in the dynamic nature of biological processes

Encyclopedia of Surface and Colloid Science P. Somasundaran, 2006

Biological Membranes Kenneth M. Merz, Benoit Roux, 2012-12-06 The interface between a living cell and the surrounding world plays a critical role in numerous complex biological processes Sperm egg fusion virus cell fusion exocytosis endocytosis and ion permeation are a few examples of processes involving membranes In recent years powerful tools such as X ray crystallography electron microscopy nuclear magnetic resonance and infra red and Raman spectroscopy have been developed to characterize the structure and dynamics of biomembranes Despite this progress many of the factors responsible for the function of biomembranes are still not well understood The membrane is a very complicated supramolecular liquid crystalline structure that is largely composed of lipids forming a bilayer to which proteins and other biomolecules are anchored Often the lipid bilayer environment is pictured as a hydrophobic structureless slab providing a thermodynamic driving force to partition the amino acids of a membrane protein according to their solubility However much of the molecular complexity of the phospholipid bilayer environment is ignored in such a simplified view It is likely that the

atomic details of the polar head group region and the transition from the bulk water to the hydrophobic core of the membrane are important. An understanding of the factors responsible for the function of biomembranes thus requires a better characterization at the molecular level of how proteins interact with lipid molecules, of how lipids affect protein structure, and of how lipid molecules might regulate protein function.

Membrane Hydration E. Anibal Disalvo, 2015-10-05

This book is about the importance of water in determining the structure, stability, and responsive behavior of biological membranes. Water confers to lipid membranes unique features in terms of surface and mechanical properties. The analysis of the hydration forces, plasticiser effects, controlled hydration, formation of microdomains of confined water, suggests that water is an active constituent in a water-lipid system. The chapters describe water organization at the lipid membrane-water interphase, the water penetration, the long range water structure in the presence of lipid membranes by means of X-ray and neutron scattering, general polarization, fluorescent probes, ATR-FTIR and near infrared spectroscopies, piezo-electric methods, computer simulation and surface thermodynamics. Permeation, percolation, osmotic stress, polarization, protrusion, sorption, hydrophobicity, density fluctuations are treated in detail in self-assembled bilayers. Studies in lipid monolayers show the correlation of surface pressure with water activity and its role in peptide and enzyme interactions. The book concludes with a discussion on anhydrobiosis and the effect of water replacement in microdomains and its consequence for cell function. New definitions of lipid-water interphases consider water not only as a structural-making solvent but as a mediator in signalling metabolic activity, modulating protein insertion and enzymatic activity, triggering oscillatory reactions and functioning of membrane-bound receptors. Since these effects occur at the molecular level, membrane hydration appears fundamental to understand the behavior of nano systems and confined environments mimicking biological systems. These insights in structural, thermodynamical and mechanical water properties give a base for new paradigms in membrane structure and function for those interested in biophysics, physical chemistry, biology, bio and nano medicine, biochemistry, biotechnology and nano sciences searching for biotechnological inputs in human health, food industry, plant growing and energy conversion.

Computational Molecular Biology J. Leszczynski, 1999-06-10

This book covers applications of computational techniques to biological problems. These techniques are based by an ever growing number of researchers with different scientific backgrounds: biologists, chemists and physicists. The rapid development of molecular biology in recent years has been mirrored by the rapid development of computer hardware and software. This has resulted in the development of sophisticated computational techniques and a wide range of computer simulations involving such methods. Among the areas where progress has been profound is in the modeling of DNA structure and function, the understanding at a molecular level of the role of solvents in biological phenomena, the calculation of the properties of molecular associations in aqueous solutions, computationally assisted drug design, the prediction of protein structure and protein-DNA recognition, to mention just a few examples. This volume comprises a balanced blend of contributions covering such topics. They reveal the details of

computational approaches designed for biomolecules and provide extensive illustrations of current applications of modern techniques A broad group of readers ranging from beginning graduate students to molecular biology professions should be able to find useful contributions in this selection of reviews

Liposomes, Part A Nejat Duzgunes, 2003-11-11 Liposomes are cellular structures made up of lipid molecules Important as a cellular model in the study of basic biology liposomes are also used in clinical applications such as drug delivery and virus studies Methods in Liposome Preparation Physicochemical Characterization of Liposomes

Handbook of Astrobiology Vera M. Kolb, 2018-12-07 Choice Recommended Title August 2019 Read an exclusive interview with Professor Vera Kolb here Astrobiology is the study of the origin evolution distribution and future of life on Earth This exciting and significant field of research also investigates the potential existence and search for extra terrestrial life in the Solar System and beyond This is the first handbook in this burgeoning and interdisciplinary field Edited by Vera Kolb a highly respected astrobiologist this comprehensive resource captures the history and current state of the field Rich in information and easy to use it assumes basic knowledge and provides answers to questions from practitioners and specialists in the field as well as providing key references for further study Features Fills an important gap in the market providing a comprehensive overview of the field Edited by an authority in the subject with chapters written by experts in the many diverse areas that comprise astrobiology Contains in depth and broad coverage of an exciting field that will only grow in importance in the decades ahead

Plant Electrophysiology Alexander G. Volkov, 2012-05-03 This book compiles new findings from the work of internationally renowned experts in plant electrophysiology biophysics bioelectrochemistry ion channels membrane transport imaging of water transport photosynthesis mechanosensors osmotic motors sensing and actuation in plants First volume covers modern methods in plant electrophysiology and cell electrophysiology Second volume deals with signal transduction and responses in plants

Water Properties of Food, Pharmaceutical, and Biological Materials Maria del Pilar Buera, Jorge Welte-Chanes, Peter J. Lillford, Horacio R. Corti, 2006-01-13 Unique and informative Water Properties of Food Pharmaceutical and Biological Materials is based on lectures and papers given by leading international researchers at the 9th International Symposium of the Properties of Water in Foods ISOPOW 9 that took place in September 2004 Each chapter presents an authoritative account of

Stealth Liposomes Danilo D. Lasic, Francis J. Martin, 2018-05-04 This book examines stealth liposomes from a multidisciplinary approach which includes theoretical polymer physics organic synthesis colloid science and biology Discussions include theory chemistry biochemistry pharmacology preclinical studies in model systems and medical applications in humans

Handbook of Nonmedical Applications of Liposomes Danilo D. Lasic, Yechezkel Barenholz, 1996-01-09 Liposomes have become an important model in fundamental biomembrane research including biophysical biochemical and cell biological studies of membranes and cell function They are thoroughly studied in several applications such as drug delivery systems in medical applications and as controlled release systems microencapsulating media signal carriers support matrices and

solubilizers in other applications While medical applications have been extensively reviewed in recent literature there is a need for easily accessible information on applications for liposomes beyond pharmacology and medicine The Handbook of Nonmedical Applications of Liposomes fills this void This unique new handbook series presents recent developments in the use of liposomes in many scientific disciplines from studies on the origin of life protein function and vesicle shapes to applications in cosmetics diagnostics ecology bioreclamation and the food industry In these volumes many of the top experts contribute extensive reviews of their work **Papers Presented at the ... Meeting** American Chemical Society. Division of Polymer Chemistry,1999 Liposomes Angel Catala,2017-10-25 Liposomes have received increased attention in recent years Nevertheless liposomes due to their various forms and applications require further investigation These structures can deliver both hydrophilic and hydrophobic drugs Preparation of liposomes results in different properties for these systems In addition there are many factors and difficulties that affect the development of liposome drug delivery structure The purpose of this book is to concentrate on recent developments on liposomes The articles collected in this book are contributions by invited researchers with a long standing experience in different research areas We hope that the material presented here is understandable to a broad audience not only scientists but also people with general background in many different biological sciences This volume offers you up to date expert reviews of the fast moving field of liposomes The Minimal Cell Pier Luigi Luisi,Pasquale Stano,2010-11-01 In the last ten years there has been a considerable increase of interest on the notion of the minimal cell With this term we usually mean a cell like structure containing the minimal and sufficient number of components to be defined as alive or at least capable of displaying some of the fundamental functions of a living cell In fact when we look at extant living cells we realize that thousands of molecules are organized spatially and functionally in order to realize what we call cellular life This fact elicits the question whether such huge complexity is a necessary condition for life or a simpler molecular system can also be defined as alive Obviously the concept of minimal cell encompasses entire families of cells from totally synthetic cells to semi synthetic ones to primitive cell models to simple biomimetic cellular systems Typically in the experimental approach to the construction of minimal the main ingredient is the compartment Lipid vesicles liposomes are used to host simple and complex molecular transformations from single or multiple enzymic reactions to polymerase chain reactions to gene expression Today this research is seen as part of the broader scenario of synthetic biology but it is rooted in origins of life studies because the construction of a minimal cell might provide biophysical insights into the origins of primitive cells and the emergence of life on earth The volume provides an overview of physical biochemical and functional studies on minimal cells with emphasis to experimental approaches 15 International experts report on their innovative contributions to the construction of minimal cells

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