

Mobility and Proximity in Biological Membranes

Samuel Johnson's *Johnson's Dictionary*, London: Penguin Classics, 1993.

Mobility And Proximity In Biological Membranes

David Stephens



Mobility And Proximity In Biological Membranes:

Mobility and Proximity in Biological Membranes Sándor Damjanovich, 2018 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 Provided by publisher *Mobility and Proximity in Biological Membranes* Sandor

Damjanovich, Michael Edidin, Janos Szollosi, Lajos Tron, 1994-03-03 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 **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

Membrane Permeability: 100 Years Since Ernest Overton, 1999-05-21 Membrane permeability is fundamental to all cell biology and subcellular biology The cell exists as a closed unit Import and export depend upon a number of sophisticated mechanisms such as active transport endocytosis exocytosis and passive diffusion These systems are critical for the normal housekeeping physiological functions However access to the cell is also taken advantage of by toxic microbes such as cholera or ptomaine and when designing drugs Ernest Overton one of the pioneers in lipid membrane research put forward the first comprehensive theory of lipid membrane structure His most quoted paper on the osmotic properties of cells laid the foundation for the modern concepts of membrane function most notably important in anesthesia This book is designed to celebrate the centennial anniversary in the first chapter of Overton s work Subsequent chapters present readers with up to date concepts of membrane structure and function and the challenge they pose for new explorations Provides an historical perspective of Overton s contributions to the theory of narcosis Presents an overview of each permeability mechanism including active transport endocytosis exocytosis and passive diffusion

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

Biochemical Roles of Eukaryotic Cell Surface

Macromolecules Abhijit Chakrabarti, Avadhesh Surolia, 2014-11-18 Consists of critical reviews and original research papers from the 2014 International Symposium on the Biochemical Role of Eukaryotic Cell Surface Macromolecules Topics covered include neurochemical and biochemical analysis of cell surface glycoconjugates membrane skeletal organization

GPCRs and other receptors biophysical approaches to study membrane interactions glycoconjugate metabolism dysregulation molecular mechanisms involved in cell cell and cell matrix interaction glycans in infectious and neurological diseases cancer and glycosyltransferases as drug targets *Fluorescent Proteins* Kevin F. Sullivan, 2007-12-14 This new edition of *Fluorescent Proteins* presents current applications of autofluorescent proteins in cell and molecular biology authored by researchers from many of the key laboratories in the field Starting from a current review of the broad palette of fluorescent proteins available several chapters focus on key autofluorescent protein variants including spectral variants photodynamic variants as well as chimeric FP approaches Molecular applications are addressed in chapters that detail work with single molecules approaches to generating protein fusions and biosensors as well as analysis of protein protein interactions in vivo by FRET fluorescence polarization and fluorescence cross correlation techniques A number of approaches to in vivo dynamics are presented including FRAP photoactivation and 4 dimensional microscopy Behavior of spindle components membrane proteins mRNA trafficking as well as analysis of cell types in tissues and in development are detailed and provide models for a wide variety of experimental approaches In addition several chapters deal directly with the computational issues involved in processing multidimensional image data and using fluorescent imaging to probe cellular behavior with quantitative modeling This volume brings together the latest perspective and techniques on fluorescent proteins and will be an invaluable reference in a wide range of laboratories **Membrane Protein-Cytoskeleton Interactions** , 1996-11-21 The plasma membrane acts as both a boundary and a site of exchange between the outside and the inside of a cell The cytoskeleton plays essential roles in delineating membrane protein distributions in defining structural and functional domains in the plasma membrane and in regulating membrane protein and ultimately cell function This volume reviews the regulation of membrane protein distribution organization and function at the plasma membrane by the cytoskeleton Discussions also include the roles of cytoskeleton in the structural and functional organization of membranes and membrane proteins with emphasis on key problems the current status of understanding experimental approaches and future directions **Lipid Rafts and Caveolae** Christopher J. Fielding, 2006-12-13 This keenly awaited first overview of the field represents a complete guide to the structure and function of the most important mammalian cell membrane organelles Filling a huge gap in the primary literature this book is the first to cover the subject in detail Following an introduction by Kai Simons the discoverer of lipid rafts and the most prominent scientist in the field chapters include Historical background Distinct structures and functions Structural basis Signaling Viral entry and virion budding Cholesterol transport Caveolins Lipid shells Cell polarity and intracellular trafficking Cancer cells Of prime importance to molecular and cell biologists biochemists membrane scientists cancer researchers and virologists **Remediation Engineering of Contaminated Soils** Donald L. Wise, 2000-07-25 Offers thorough coverage of the remediation of soils contaminated by hazardous wastes including materials analytical techniques cleanup design and methodology characterization of geomechanics monitoring of contaminants in the subsurface and

waste containment Cites specific case studies in hydrocarbon remediation that offer a concise overview of possible technological approaches

Fundamentals of Light Microscopy and Electronic Imaging Douglas B. Murphy, Michael W. Davidson, 2012-08-22 Fundamentals of Light Microscopy and Electronic Imaging Second Edition provides a coherent introduction to the principles and applications of the integrated optical microscope system covering both theoretical and practical considerations It expands and updates discussions of multi spectral imaging intensified digital cameras signal colocalization and uses of objectives and offers guidance in the selection of microscopes and electronic cameras as well as appropriate auxiliary optical systems and fluorescent tags The book is divided into three sections covering optical principles in diffraction and image formation basic modes of light microscopy and components of modern electronic imaging systems and image processing operations Each chapter introduces relevant theory followed by descriptions of instrument alignment and image interpretation This revision includes new chapters on live cell imaging measurement of protein dynamics deconvolution microscopy and interference microscopy PowerPoint slides of the figures as well as other supplementary materials for instructors are available at a companion website www.wiley.com/go/murphy/lightmicroscopy

Prions and Brain Diseases in Animals and Humans Douglas R.O. Morrison, 2013-06-29 Most of the world's experts on prions met for a workshop in Erice in August 1996 The aim of the workshop was to discuss the fundamentals of the science of prions It was fortunate that so many could be present given the pressure that they were under because of the data presented in March 1996 indicating that Bovine Spongiform Encephalopathy BSE or Mad Cow Disease had penetrated the species barrier and was beginning to cause a new disease in humans the new variant of Creutzfeldt Jakob Disease nvCJD This important and urgent subject became an additional major topic at the workshop This is a book containing most of the talks plus the abstracts of those unable to find time to write up their talks Almost all papers were written in the spring and summer of 1997 and contain material added after the workshop thus Bob Will's paper on the new variant of cm contains data up to July 1997 and four contributions arrived in October 1997 In addition to the talks given at our workshop there was a special joint session with the Planetary Emergencies Workshop where many distinguished scientists including three Nobel laureates discussed major issues affecting our planet Six talks were given by us to this other workshop five about prions BSE and nvCJD and one on the broader issue of new epidemics by Luc Montagnier Although most of the talks concerned research issues there were a few special talks

Fluorescent Methods to Study Biological Membranes Yves Mely, Guy Duportail, 2012-10-10 Biological membranes play a central role in cell structure shape and functions However investigating the membrane bilayer has proved to be difficult due to its highly dynamic and anisotropic structure which generates steep gradients at the nanometer scale Due to the decisive impact of recently developed fluorescence based techniques tremendous advances have been made in the last few years in our understanding of membrane characteristics and functions In this context the present book illustrates some of these major advances by collecting review articles written by highly

respected experts The book is organized in three parts the first of which deals with membrane probes and model membranes The second part describes the use of advanced quantitative and high resolution techniques to explore the properties of biological membranes illustrating the key progress made regarding membrane organization dynamics and interactions The third part is focused on the investigation of membrane proteins using the same techniques and notably on the membrane receptors that play a central role in signaling pathways and therapeutic strategies All chapters provide comprehensive information on membranes and their exploration for beginners in the field and advanced researchers alike Green Fluorescent Protein Martin Chalfie, Steven R. Kain, 2005-12-13 Since the discovery of the gene for green fluorescent protein GFP derived from jellyfish this protein that emits a green glow has initiated a revolution in molecular biosciences With this tool it is now possible to visualize nearly any protein of interest in any cell or tissue of any species Since the publication of the first edition there have been tremendously significant technological advances including development of new mutant variants Proteins are now available in yellow and blue and Novel Fluorescent Proteins NFPs have expanded their utility in developing biosensors biological markers and other biological applications This updated expanded new edition places emphasis on the rise of NFPs including new chapters on NFP properties with detailed protocols applications of GFPs and NFPs in industry research and biosensors This book provides a solid theoretical framework along with detailed practical guidance on use of GFPs and NFPs with discussion of potential pitfalls The expert contributors provide real examples in showing how to tailor GFP NFP to specific systems maximize expression and enhance detection Serotonin Paul M. Pilowsky, 2018-09-21 Serotonin The Mediator That Spans Evolution provides a comprehensive review of the widespread roles for serotonin in respiratory cardiovascular and thermoregulatory control and for growth and development in early life This important resource highlights serotonin s role in normal unstressed conditions and in response to a variety of physiological stressors It focuses on new animal models comparing and contrasting data from mice and rats In addition the book compares and contrasts the physiological effects of brain and blood serotonin systems and includes new data suggesting that the influence of serotonin is in part through the regulation of gene expression Finally it discusses the role of serotonin system dysfunction in a variety of pathophysiological conditions including sleep apnea obesity and hypertension and presents compelling evidence that this dysfunction is involved in Sudden Infant Death Syndrome SIDS Includes the latest information on new animal models of serotonin system dysfunction Explores the wide scope of serotonin s influence on multiple organ and physiological systems Highlights the autonomous functioning of the brain and body serotonin systems Provides compelling evidence of serotonin dysfunction in SIDS a leading cause of death in infancy Cell Imaging David Stephens, 2005-12-01 This book covers the key techniques that can be employed in any lab with access to cell imaging equipment even if they do not currently specialize in imaging It focuses on live cell imaging and light microscopy applications but is equally relevant to the imaging of fixed specimens 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

Current Topics in Membranes, 1996 The plasma membrane acts as both a boundary and a site of exchange between the outside and the inside of a cell The cytoskeleton plays essential roles in delineating membrane protein distributions in defining structural and functional domains in the plasma membrane and in regulating membrane protein and ultimately cell function This volume reviews the regulation of membrane protein distribution organization and function at the plasma membrane by the cytoskeleton Discussions also include the roles of cytoskeleton in the structural and functional organization of membranes and membrane proteins with emphasis on key problems the current status of understanding experimental approaches and future directions

Modeling Differential Equations in Biology Clifford Henry Taubes, 2008-01-17 Based on a very successful one semester course taught at Harvard this text teaches students in the life sciences how to use differential equations to help their research It needs only a semester's background in calculus Ideas from linear algebra and partial differential equations that are most useful to the life sciences are introduced as needed and in the context of life science applications are drawn from real published papers It also teaches students how to recognize when differential equations can help focus research A course taught with this book can replace the standard course in multivariable calculus that is more usually suited to engineers and physicists

Fluorescence Techniques in Cell Biology Andreas A. Thaer, Manfred Sernetz, 2012-12-06 For there to be progress in science there must first be communication between experts of different disciplines This is particularly true of modern biology which is becoming more and more of an interdisciplinary field The present situation in cell biology clearly reflects this development and demonstrates that the application of physical techniques was necessary before this field of biological research could be developed on an objective and quantitative basis The utilization of optical phenomena as measuring parameters at the microscopic level has provided the basis for the development of quantitative cytochemistry This rapidly growing extension of conventional cytochemistry and histochemistry is based on the visual observation of qualitative chemical criteria in correlation with the microscopically resolved structure of cells and tissues Furthermore the introduction into cytochemistry of such optical measuring techniques as absorption photometry interferometry and fluorometry as well as the measurement of optical anisotropy diffraction and scattered light has provided the methodological bridge for the exchange of knowledge between cell biology on the one hand and biochemistry or molecular biology on the other

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