

# Subcellular Biochemistry

Volume 23

Physicochemical  
Methods in the Study  
of Biomembranes

Edited by

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and

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# Subcellular Biochemistry Vol 23 Physicochemical Methods In The Study Of Biomembranes

**Peter J. Quinn, Valerian E. Kagan**



## **Subcellular Biochemistry Vol 23 Physicochemical Methods In The Study Of Biomembranes:**

*Physicochemical Methods in the Study of Biomembranes* Herwig J. Hilderson, Gregory B. Ralston, 2013-11-11 In mammalian cells many physiological processes rely on the dynamics of the organization of lipids and proteins in biological membranes The topics in this volume deal with physicochemical methods in the study of biomembranes Some of them have a long and respectable history in the study of soluble proteins and have only recently been applied to the study of membranes Some have traditionally been applied to studies of model systems of lipids of well defined composition as well as to intact membranes Other methods by their very nature apply to organized bilayers comprised of both protein and lipid Van Meer and van Genderen provide us with an introduction to the field Chapter I From their personal perspective regarding the distribution transport and sorting of membrane lipids they formulate a number of biologically relevant questions and show that the physicochemical methods described in this book may contribute in great measure to solving these issues The methods of analytical ultracentrifugation have served faithfully for 60 years in the study of water soluble proteins The use of detergent extraction of membrane proteins and the manipulation of density with H<sub>2</sub>O D<sub>2</sub>O mixtures has extended this technique to the study of proteins and in particular their interactions from biological membranes As described by Morris and Ralston in Chapter 2 this technique can be used to determine a number of important properties of proteins

**Subcellular Biochemistry** J. Robin Harris, 2013-11-11 In Volume 25 leading experts present studies on the value of increased ascorbic acid intake and explore its specific contributions to human and animal health

**Lipid Bilayers** J. Katsaras, T. Gutberlet, 2013-06-29 A general review of lipid bilayer structure and dynamics is given including such current topics as the hydration of lipid bilayers the superstructural behaviour of bilayers at different states of hydration and external conditions the role and behaviour of lipid bilayers on fusion and rupture and the interaction of lipid bilayers with small organic molecules and additives and of protein lipid bilayer interactions In addition recent research on lipid interaction with proteins and other molecules in monolayers is reviewed and the use of highly aligned samples under biologically relevant conditions and the benefits derived from such preparations are addressed Finally the latest approach in simulation of impurities within a lipid bilayer is introduced This book will be a comprehensive review of the current state of biologically relevant model membrane systems which will become an indispensable reference for the working biophysicist

*Phospholipid Metabolism in Apoptosis* Peter J. Quinn, Valerian E. Kagan, 2006-04-18 The last few years have witnessed an explosion of both interest and knowledge about apoptosis the process by which a cell actively commits suicide The number of publications on the topic has increased from nothing in the early 1980s to more than 10 000 papers annually today It is now well recognized that apoptosis is essential in many aspects of normal development and is required for maintaining tissue homeostasis The idea that life requires death seems somewhat paradoxical but cell suicide is essential for an animal to survive For example without selective destruction of non self T cells an animal would lack immunity Similarly meaningful neural connections in the brain

are whittled from a mass of cells Further developmental cell remodeling during tissue maturation involves programmed cell death as the major mechanism for functional and structural safe transition of undifferentiated cells to more specialized counterparts Apoptosis research with roots in biochemistry developmental and cell biology genetics and immunology embraces this long ignored natural law Failure to properly regulate apoptosis can have catastrophic consequences Cancer and many diseases AIDS Alzheimer s disease Parkinson s disease heart attack stroke etc are thought to arise from deregulation of apoptosis As apoptosis emerges as a key biological regulatory mechanism it has become harder and harder to keep up with new developments in this field

Biophysical Chemistry Richard H. Templer, Robin Leatherbarrow, 2002 In the post genomic world advances in the comprehension of cell behaviour will depend upon scientists deciphering the molecular basis of interactions between proteins and membranes Bringing together contributions from chemists biologists and physicists Biophysical Chemistry Membranes and Proteins demonstrates how multidisciplinary teams can gain insights into understanding complex biological systems This book reflects both the scope and the interdisciplinary nature of the field with topics including modelling of biological systems membrane structure and interactions probing biomolecules and channels and receptors Full of stimulating articles and opinions readers from academia and industry will welcome the wide range of coverage and the state of the art science

**Bacterial Toxins** Otto Holst, 2008-02-05 The interest of investigators across a broad spectrum of scientific disciplines has been steadily stimulated by the field of bacterial toxin research an area that makes use of a large variety of biological chemical physicochemical and medically oriented approaches Researchers studying bacterial toxins need to be acquainted with all these disciplines in order to work effectively in the field To date there has been no published collection offering detailed descriptions of the techniques and methods needed by researchers operating across the field s diverse areas The present volume Bacterial Toxins Methods and Protocols is intended to fill this gap Bacterial Toxins Methods and Protocols consists of two sections one on protein toxins 15 chapters and one on endotoxins 5 chapters Each section is introduced by an overview article Chapters 1 and 16 The protocols collected represent state of the art techniques that each have high impact on future bacterial toxin research All methods are described by authors who have regularly been using the protocol in their own laboratories Included in each chapter is a brief introduction to the method being described

*Biology of the Lysosome* John B. Lloyd, Robert W. Mason, 2012-12-06 Volume 27 provides a comprehensive review of current knowledge of lysosome function in mammalian cells The book s unique contribution is its series of chapters that offers unparalleled treatment of the metabolic activities of lysosomes

Calcium-Binding Protein Protocols Hans J. Vogel, 2008-02-05 Calcium plays an important role in a wide variety of biological processes This divalent metal ion can bind to a large number of proteins by doing so it modifies their biological activity or their stability Because of its distinct chemical properties calcium is uniquely suited to act as an on off switch or as a light dimmer of biological activities The two books entitled Calcium Binding Protein Protocols Volumes I and II focus on modern experimental analyses and

methodologies for the study of calcium binding proteins Both extracellular and intracellular calcium binding proteins are discussed in detail However proteins involved in calcium handling e.g. calcium pumps and calcium channels fall outside of the scope of these two volumes Also calcium binding proteins involved in bone deposition will not be discussed as this specific topic has been addressed previously The focus of these two books is on studies of the calcium binding proteins and their behavior in vitro and in vivo The primary emphasis is on protein chemistry and biophysical methods Many of the methods described will also be applicable to proteins that do not bind calcium Calcium Binding Protein Protocols is divided into three main sections The section entitled Introduction and Reviews provides information on the role of calcium in intracellular secondary messenger activation mechanisms Moreover unique aspects of calcium chemistry and the utilization of calcium in dairy proteins as well as calcium binding proteins involved in blood clotting are addressed

### **Drug-Membrane**

**Interactions** Joachim K. Seydel, Michael Wiese, 2009-07-10 Barrier reservoir target site those are but some of the possible functions of biological lipid membranes in the complex interplay of drugs with the organism A detailed knowledge of lipid membranes and of the various modes of drug membrane interaction is therefore the prerequisite for a better understanding of drug action Many of today's pharmaceuticals are amphiphilic or catamphiphilic enabling them to interact with biological membranes Crucial membrane properties are surveyed and techniques to elucidate drug membrane interactions presented including computer aided predictions Effects of membrane interaction on drug action and drug distribution are discussed and numerous examples are given This unique reference volume builds on the authors long experience in the study of drug membrane interaction Recommended reading for everyone involved in pharmaceutical research

Optical Spectroscopy and Computational Methods in Biology and Medicine Malgorzata Baranska, 2013-12-05 This multi author contributed volume gives a comprehensive overview of recent progress in various vibrational spectroscopic techniques and chemometric methods and their applications in chemistry biology and medicine In order to meet the needs of readers the book focuses on recent advances in technical development and potential exploitations of the theory as well as the new applications of vibrational methods to problems of recent general interest that were difficult or even impossible to achieve in the not so distant past Integrating vibrational spectroscopy and computational approaches serves as a handbook for people performing vibrational spectroscopy followed by chemometric analysis hence both experimental methods as well as procedures of recommended analysis are described This volume is written for individuals who develop new methodologies and extend these applications to new realms of chemical and medicinal interest

**Intermediate Filaments** Harald Herrmann, J. Robin Harris, 1998-09-30 Comprises 20 contributions on intermediate filament IF proteins providing a comprehensive overview of the essentials of IF research and very recent developments including many previously unpublished concepts and results Representative topics include intermediate filament organization during oogenesis and early development in the clawed frog lessons from keratin transgenic and knockout mice cytokeratins as markers of differentiation in the diagnosis of epithelial

tumors vimentin and lipid metabolism and nuclear lamin binding proteins Annotation copyrighted by Book News Inc Portland OR

**Proteins: Structure, Function, and Engineering** B.B. Biswas, Siddhartha Roy, 2013-06-29 Here researchers review the latest breakthroughs in protein research Their contributions explore emerging principles and techniques and survey important classes of proteins that will play key roles in the field's future Articles examine the possibility of a Boltzman like distribution in protein substructures the new technique of Raman spectroscopy and compact intermediate states of protein folding This well illustrated volume also features coverage of proteins that bind nucleic acids

**Plant-Microbe Interactions** B.B. Biswas, H.K. Das, 2013-11-11 Recent years have seen tremendous progress in unraveling the molecular basis of different plant microbe interactions Knowledge has accumulated on the mechanisms of the microbial infection of plants which can lead to either disease or resistance The mechanisms developed by plants to interact with microbes whether viruses bacteria or fungi involve events that can lead to symbiotic association or to disease or tumor formation Cell death caused by pathogen infection has been of great interest for many years because of its association with plant resistance There appear to be two types of plant cell death associated with pathogen infection a rapid hypersensitive cell death localized at the site of infection during an incompatible interaction between a resistant plant and an avirulent pathogen and a slow normosensitive plant cell death that spreads beyond the site of infection during some compatible interactions involving a susceptible plant and a virulent necrogenic pathogen Plants possess a number of defense mechanisms against infection such as i production of phytoalexin ii formation of hydrolases iii accumulation of hydroxyproline rich glycoprotein and lignin deposition iv production of pathogen related proteins v production of oligosaccharides jasmonic acid and various other phenolic substances and vi production of toxin metabolizing enzymes Based on these observations insertion of a single suitable gene in a particular plant has yielded promising results in imparting resistance against specific infection or disease It appears that a signal received after microbe infection triggers different signal transduction pathways

Handbook of Cell-Penetrating Peptides Ulo Langel, 2006-08-15 Since the first Handbook of Cell Penetrating Peptides was prepared in 2001 the wealth of new information on the use of these peptides as transport systems has in fact served to confound the field The constant internal change in the field of cell penetrating peptides CPPs is due to recent research uncovering apparent ambiguities in cellular uptake

**Fat-Soluble Vitamins** Peter J. Quinn, Valerian E. Kagan, 2013-11-11 The subject for a volume on the fat soluble vitamins needs no justification considering the importance of this group of nutrients and the rate of expansion of our knowledge of its role in cell biology genetics and disease The level of our understanding has clearly moved from knowing what fat soluble vitamins do to how they perform their functions Hand in hand with a knowledge of their molecular mechanisms of action is the recognition that vitamins are used sparingly and regeneration processes operate in certain cases to recycle vitamins from their metabolites We have divided the volume into alphabetical sections beginning with vitamin A and the carotenoids through vitamins D E F and K and ending with coenzyme Q The contributors are all acknowledged

experts in their particular fields and have made significant contributions to published research results All have worked assiduously to deliver the product of their labors on a restricted time scale and to provide the most up to date information on their respective topics We are truly grateful for their indulgence

**myo-Inositol Phosphates, Phosphoinositides, and Signal Transduction** B.B. Biswas, Susweta Biswas, 2013-11-11 The heterogeneity of topics is very ambitious and the result is overall successful because of the high quality of the individual contributions highly recommended American Scientist from a review of a previous volume Volume 26 examines the emerging areas of signal transduction based on myoinositol phosphates and Ca<sup>2+</sup> while focusing on plant and animal responses Chapters explore synthesis separation and identification of different inositol phosphates

**Cell-Penetrating Peptides** Ulo Langel, 2002-05-29 One of the major problems with drug delivery is the inability of large hydrophilic compounds to pass through the lipid membrane of the cell thus making drugs such as polypeptides and oligonucleotides of limited therapeutic value Until recently the transport of such molecules into the cytoplasmic and nuclear compartments of living cells seemed a

**Cholesterol** Robert Bittman, 2013-11-11 Experts investigate the biochemical and biomedical aspects of cholesterol addressing its metabolism in normal and disease states They discuss a broad range of topics including key steps in the cholesterol biosynthetic pathway and the role of cholesterol in cancer atherosclerosis and diseases of the nervous system The book's comprehensive coverage also includes the pathological consequences and potential therapies for various disease states and the development of new anti atherogenic drugs

**α-Gal and Anti-Gal** Uri Galili, José-Luis Avila, 2012-12-06 Uri Galili who originally discovered anti Gal and the unique evolution of 1 3 galactosyltransferase and by Dr Jose Luis Avila who has been studying anti Gal significance in Chagas disease and in Leishmania infections This book covers the main areas of research on 1 3 galactosyltransferase its product the gal epitope Gal1 3Gal1 4GlcNAc R and the natural anti Gal antibody that interacts with this epitope

***Pumps, Channels and Transporters*** Ronald J. Clarke, Mohammed A. A. Khalid, 2015-09-16 Describes experimental methods for investigating the function of pumps channels and transporters Covers new emerging analytical methods used to study ion transport membrane proteins such as single molecule spectroscopy Details a wide range of electrophysiological techniques and spectroscopic methods used to analyze the function of ion channels ion pumps and transporters Covers state of the art analytical methods to study ion pumps channels and transporters and where analytical chemistry can make further contributions

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