



Different forms of membrane transport

Methods In Membrane Biology Volume 5 Transport

National Institutes of Health (U.S.)



Methods In Membrane Biology Volume 5 Transport:

Methods in Membrane Biology Edward Korn, 2012-12-06 Many of the methods now in general use in membrane biology and not already discussed in satisfactory detail elsewhere have been covered in the eight previously published volumes of this series Much of this ninth volume is occupied by one authoritative chapter an unusually thorough and critical review of a relatively new and highly specialized technology that has gained rapid acceptance immunofluorescence and immunoelectron microscopy These are powerful experimental tools applicable in fields much broader than membrane research and employing methods drawn from widely diverse disciplines such as organic chemistry protein chemistry immunology and fluorescence and electron microscopy The temptation to use these superficially and deceptively simple but fundamentally complex methods uncritically is almost overwhelming The chapter by de Petris a pioneer in the field is as necessary as it is rigorous and it should long be the standard in this area of research The second chapter in this volume is a more specialized review by Matus of the procedures for the preparation and characterization of the highly differentiated junctional regions of brain plasma membranes These methods are central to the rapidly growing field of neurobiochemistry membrane biochemistry at perhaps its most intricate

Methods in Membrane Biology Edward D. Korn, 2012-12-06 Although not the only volume in this series in which lipids are discussed the present volume is devoted entirely to methods for the study of membrane lipids Even now when membrane proteins are properly receiving so much attention this emphasis on membrane lipids is appropriate Essentially all of the phospholipids and sterols of cells are in membranes Moreover although membrane proteins are certainly of utmost importance the more we learn about the functional properties of membrane proteins the more we appreciate the unique features of phospholipids without which biological membranes would be impossible The hydrophobic hydrophilic duality of phospholipids allows indeed requires their association in an aqueous environment into an essentially two dimensional membrane only molecularly thick in one dimension but relatively infinite in the other two a structure composed of small molecules not covalently linked and therefore infinitely mobile and variable but yet a structure with great stability and one largely impermeable to most biomolecules These membrane forming properties are shared by many amphipathic polar lipids phospholipids glycolipids and sphingolipids that differ significantly from each other in the nature of their polar head groups and their fatty acids These variations in structure allow a range of specific interactions among membrane lipids and between lipids and proteins and also provide for membranes of variable but controlled fluidity In this way phospholipids provide an appropriate milieu for functional membrane proteins and also significantly modulate their catalytic activities

Methods in Membrane Biology, 1976 Molecular Biology of Membrane Transport Disorders Thomas E. Andreoli, A.M. Brown, D.M. Fambrough, Joseph F. Hoffman, Stanley G. Schultz, Michael J. Welsh, 2013-11-11 When the six of us gathered to start planning for what was to be the Third Edition of Physiology of Membrane Disorders it was clear that since 1986 when the Second Edition appeared the field had experienced

the dawning of a new era dominated by a change in focus from phenomenology to underlying mechanisms propelled by the power of molecular biology In 1985 detailed molecular information was available for only three membrane transporters the lac permease bacterial rhodopsin and the acetylcholine receptor During the decade that has since elapsed almost all of the major ion channels and transport proteins have been cloned sequenced mutagenized and expressed in homologous as well as heterologous cells Few if any of the transporters that were identified during the previous era have escaped the probings of the new molecular technologies and in many instances considerable insight has been gained into their mechanisms of function in health and disease Indeed in some instances novel unexpected transporters have emerged that have yet to have their functions identified The decision to adopt the new title Molecular Biology of Membrane Transport Disorders was a natural outgrowth of these considerations

Electrochemistry H. R. Thirsk, 1989-03-31 Specialist Periodical Reports provide systematic and detailed review coverage of progress in the major areas of chemical research Written by experts in their specialist fields the series creates a unique service for the active research chemist supplying regular critical in depth accounts of progress in particular areas of chemistry For over 80 years the Royal Society of Chemistry and its predecessor the Chemical Society have been publishing reports charting developments in chemistry which originally took the form of Annual Reports However by 1967 the whole spectrum of chemistry could no longer be contained within one volume and the series Specialist Periodical Reports was born The Annual Reports themselves still existed but were divided into two and subsequently three volumes covering Inorganic Organic and Physical Chemistry For more general coverage of the highlights in chemistry they remain a must Since that time the SPR series has altered according to the fluctuating degree of activity in various fields of chemistry Some titles have remained unchanged while others have altered their emphasis along with their titles some have been combined under a new name whereas others have had to be discontinued

Symposium on the Pharmacological Effect of Lipids Jon J. Kabara, 1978 **Biophysical Approaches** Edward D. Korn, 2013-04-17 The short period since the publication of Volume 1 of Methods in Membrane Biology has been a time of momentous progress Calorimetry electron spin and nuclear magnetic resonance X ray diffraction and freeze cleavage electron microscopy reinforced by biochemical analyses and enzymatic studies have led to universal acceptance of a generalized membrane model All membrane biologists would agree that a major element of all biological membranes is a bilayer of phospholipids which in some instances also contains other lipids notably sterols and glycolipids The fatty acid composition of the lipids of most membranes is such that the lipids are above their transition temperatures in their normal environment so that the bilayer is fluid The microviscosity of the fatty acyl groups decreases progressively down the chain so that at the hydrocarbon interior of the bilayer the lipid phase has a viscosity approximating that of olive oil at room temperature As a consequence of this membrane fluidity a phospholipid molecule is very mobile within the plane of the membrane moving a distance of about 1.2 μm in 1 s but the movement of a phospholipid molecule from one side of the membrane bilayer to the other flip flop is very

slow The lipid bilayer is an essentially inert and rather impermeable structure as shown by many studies with model systems. Proteins of course provide the catalytic components of the membranes as well as playing a significant structural role.

Scientific Directory and Annual Bibliography National Institutes of Health (U.S.), 1974 Each issue lists papers published during the preceding year

Published Scientific Papers of the National Institutes of Health National Institutes of Health (U.S.), 1975 Each issue lists papers published during the preceding year

Patch Clamp Technique Fatima Shad Kaneez, 2012-03-23 This book is a stimulating and interesting addition to the collected works on Patch clamp technique. Patch Clamping is an electrophysiological technique which measures the electric current generated by a living cell due to the movement of ions through the protein channels present in the cell membrane. The technique was developed by two German scientists Erwin Neher and Bert Sakmann who received the Nobel Prize in 1991 in Physiology for this innovative work. Patch clamp technique is used for measuring drug effect against a series of diseases and to find out the mechanism of diseases in animals and plants. It is also most useful in finding out the structure function activities of compounds and drugs and most leading pharmaceutical companies used this technique for their drugs before bringing them for clinical trial. This book deals with the understanding of endogenous mechanisms of cells and their receptors as well as advantages of using this technique. It covers the basic principles and preparation types and also deals with the latest developments in the traditional patch clamp technique. Some chapters in this book take the technique to a next level of modulation and novel approach. This book will be of good value for students of physiology, neuroscience, cell biology and biophysics.

Structural and Functional Aspects of Enzyme Catalysis H. Eggerer, R. Huber, 2012-12-06 Enzymes perform the executive role in growth, energy conversion and repair of a living organism. Their activity is adjusted to their environment within the cell, being turned off, switched on or finely tuned by specific metabolites according to demands at the physiological level. Each enzyme discovered in the long history of enzymology has revealed its own individuality. Even closely related members of a family differ in specificity, stability or regulatory properties. Despite these at first sight overwhelming aspects of individuality, common factors of enzymic reactions have been recognized. Enzymes are stereospecific catalysts even when a nonspecific process would yield the same product. Knowledge of the detailed stereochemistry of an enzymic reaction helps to deduce reaction mechanisms and to obtain insight into the specific binding of substrates at the active site. This binding, close to catalytically competent groups, is related to the enormous speed of enzyme catalyzed reactions. The physical basis of rate enhancement is understood in principle and further exploited in the design of small organic receptor molecules as model enzymes. These aspects of enzyme catalysis are discussed in Session 1. Session 2 emphasizes the dynamic aspects of enzyme-substrate interaction. Substrate must diffuse from solution space to the enzyme's surface. This process is influenced and can be greatly facilitated by certain electrostatic properties of enzymes. The dynamic events during catalysis are studied by relaxation kinetics or NMR techniques.

Bioelectrochemistry I G. Milazzo, Martin F. Bach, 2013-03-09 This is the first course devoted to

bioelectrochemistry held within the frame work of the International School of Biophysics Although this branch of scientific research is already about two centuries old as a truly independent one it has been in a stage of lively development since only a few decades ago and this is why a first course at the E Majorana Center was devoted to it Since bioelectrochemistry consists of many sub fields it is impossible to include even superficially all of them in a short course lasting just a week and therefore the chapter of redox reactions was chosen for this first course as being most general in character But even restricting the course to redox reactions only a few subjects could be included and therefore the choice among them was made considering the most general guidelines that could serve as a basis for the further study of individual problems In this way we hope to give a sound basis to the study of and to stimulate further interest in this branch of both biological and physical chemistry This dual interdisciplinary approach is on the other hand unavoidable if a more rigorous and logical attack on biological problems in living bodies is to be carried ahead

VII CONTENTS ix Symbols and acronyms Opening address A BORSELLINO 1 Bioelectrochemistry and bioenergetics an interdisciplinary survey G MILAZZO 5 General criteria for the fulfilment of redox reactions R BUVET 15 Photosynthesis selected topics H 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 Technical Abstract Bulletin , Energy Research Abstracts , 1980 Ion Channel Reconstitution C. Miller, 2013-11-09 It is now over 30 years since the idea of ion conducting pores burst on the elec trophysiological scene 15 years since these were generally realized to be mem brane spanning proteins and 10 years since the first observations of single ion channels from higher organisms were made During the past 5 years several integral membrane channel proteins have been purified in a functionally competent state the nicotinic acetylcholine receptor the Na channel mitochondrial VDAC and a variety of porins The stage is thus set to attack ion channels in the same ways that biochemists have been attacking enzymes for decades isolation followed by functional analysis in as simple a system as possible with a view towards understanding the molecular mechanisms of the protein s behavior and how this is related to the underlying molecular structure This is always a daunting task all the more so with ion channels because of our still primitive and scanty understanding of channel structures and because of the difficulty in isolating functionally active channel proteins In this volume which can be considered a biochemically slanted companion to Sakmann and Neher s *Single Channel Recording* I have tried to present a view of the current landscape of ion channel reconstitution These chapters illustrate not only the different approaches and techniques of the major practitioners of ion channel reconstitution but as importantly the varied motivations for doing this kind of work

An Introduction to Biological Membranes William Stillwell, 2013-04-20 An Introduction to Biological Membranes From Bilayers to Rafts covers

many aspects of membrane structure function that bridges membrane biophysics and cell biology Offering cohesive foundational information this publication is valuable for advanced undergraduate students graduate students and membranologists who seek a broad overview of membrane science Brings together different facets of membrane research in a universally understandable manner Emphasis on the historical development of the field Topics include membrane sugars membrane models membrane isolation methods and membrane transport

Federation Proceedings Federation of American Societies for Experimental Biology, 1962

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

Neurochemical Techniques in Insect Research H. Breer, T.A. Miller, 2012-12-06 Neurochemical Techniques in Insect Research properly emphasizes the insect It only scratches the surface of the exploding repertoire of general neuro chemical techniques that can be applied to insect research in 1985 But it also presents the advantages of using insects for studying certain biological questions that are approachable by neurochemical techniques Even more so it summarizes the long list of unique problems encountered in attempting to study insects by neurochemical techniques As in other volumes of this series the contributors to this volume are the authorities in the field They themselves have developed much of the material presented Thus the sum effort provides a true description of the state of the art and pleasantly it does so in a very complete and clear manner Readers of this series will not need to be reminded that despite the fact that vertebrates make up only about 3% of all animal species research in in vertebrates such as insects has lagged behind that on vertebrates at least in the neurochemistry area the relative simplicity and large cell size of the insect nervous system has always provided incentive for work in neurophysiology and neuroanatomy Toxicology interests will always stimulate a certain amount of work on insect neuropharmacology and insects are extremely suitable for several areas of toxin research Last but not least the insects are beautiful organisms for which the applications of genetics can be made to the study of nervous system function

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