

METHODS IN MEMBRANE BIOLOGY

VOLUME 4

Biophysical Approaches

Edited by

EDWARD D. KORN

 **Springer**

Methods In Membrane Biology Volume 4 Biophysical Approaches

Paul-André Siegenthaler, N. Murata



Methods In Membrane Biology Volume 4 Biophysical Approaches:

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 Three articles make up Volume 10 of *Methods in Membrane Biology* In the first of these Papahadjopoulos Poste and Vail extensively review much of the available data on the fusion of natural membranes model membranes liposomes and natural membranes with liposomes The authors are led by their review of the experimental methods and their interpretations of the results obtained to a general theory of membrane fusion which they believe is applicable to all systems that have been studied Arguing that although protein and carbohydrate may serve in some cases to bring membranes into sufficiently close proximity for fusion to occur and in other cases to remove peripheral and integral proteins from the regions that are to undergo fusion the authors conclude that membrane fusion per se is solely a property of the lipid bilayer In their view all the experimental observations to date can be subsumed under a unifying hypothesis in which membrane fusion is the result of a phase separation in one half of the membrane bilayer brought about by the interaction of calcium ions with acidic phospholipids mostly phosphatidylserine Where half membranes already contain sufficient acidic phospholipids a local increase in calcium ion concentration may suffice to induce fusion examples might include exocytosis and fusion of intracellular membrane systems In other cases natural or experimentally induced events preceding fusion might be necessary to increase the local concentration of the acidic phospholipids in the half membrane virus or fusogenic agent induced cell to cell fusion or endocytosis for example

Methods in Membrane Biology, 1976 *Gel Permeation and Ion-Exchange Chromatography of Proteins and Peptides* Kato, Simone Parvez, Hasan Parvez, 2020-03-24 This book is a collection of critical reviews of the use of high performance liquid chromatography in a very specialized area of research It describes in detail modern methodology to separate nucleic acids enzymes and a wide variety of biologically active proteins such as renin *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.

Transport Edward D. Korn, 2013-03-09 One property common to all cells is transport. Molecules and ions must enter and leave cells by crossing membranes in a controlled manner. The process may take any of several forms: simple diffusion, carrier-mediated diffusion, active transport or group translocation. There is more than one way to measure each. Transport kinetics with particular reference to the red blood cell were discussed in a previous volume. Three chapters deal with the general subject of transport in this volume. Maloney, Kashket and Wilson summarize the appropriate methodology for studying metabolite and ion transport in bacteria and Kimmich describes the relevant methodology for the isolated intestinal epithelial cell. The methods described in these two chapters have general application to transport studies in single cells from any source. The approach described in these two complementary articles is extended in the chapter by Hochstadt and her collaborators on the use of isolated membranes from bacterial and mammalian cells for the study of transport phenomena. If one can prepare a suitable plasma membrane fraction sealed impermeable vesicles with the necessary transport components intact it becomes possible to separate the events of transport from any subsequent metabolism that may occur in the cell. Isolated membrane vesicles are relatively easy to obtain from bacteria and they are comparatively well studied. Work with similar preparations from cultured mammalian cells is just beginning but has much promise.

Methods for Studying Membrane Fluidity Roland C. Aloia, Cyril C. Curtain, Larry M. Gordon, 1988

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Methods in Membrane Biology, V. 4, 1975

Biophysical Approaches for the Study of Membrane Structure Part A, 2024-07-05 Biophysical Approaches for the Study of Membrane Structure Part A Volume 700 explores lipid membrane asymmetry and lateral heterogeneity. A burst of recent research has shown that bilayers whose leaflets differ in their physical properties such as

composition phase state or lateral stress exhibit many fascinating new characteristics but also pose a host of new challenges related to their creation characterization simulation and theoretical description Chapters in this new release include Evaluation of functional transbilayer coupling in live cells by controlled lipid exchange and imaging FCS Effects of lateral and hydrostatic pressure on membrane structure and properties and much more Other sections cover Using the yeast vacuole as a system to test the lipid drivers of membrane heterogeneity in living cells Direct quantification of cellular membrane lipids using ratiometric fluorescence sensors The spectral phasor approach to resolving membrane order with environmentally sensitive dyes The use of hemifusion to create asymmetric giant unilamellar vesicles Insights on induced order domains Advanced microscopy methods to study membrane pores Use of cryo EM to study membrane phase separation and much more Explore the state of the art of lipid membrane asymmetry Covers experimental theoretical and computational techniques to create and characterize asymmetric lipid membranes Teaches how these kinds of approaches create and characterize laterally inhomogeneous membranes

[The Giant Vesicle Book](#) Rumiana Dimova, Carlos Marques, 2019-11-19

Giant vesicles are widely used as a model membrane system both for basic biological systems and for their promising applications in the development of smart materials and cell mimetics as well as in driving new technologies in synthetic biology and for the cosmetics and pharmaceutical industry The reader is guided to use giant vesicles from the formation of simple membrane platforms to advanced membrane and cell system models It also includes fundamentals for understanding lipid or polymer membrane structure properties and behavior Every chapter includes ideas for further applications and discussions on the implications of the observed phenomena towards understanding membrane related processes The Giant Vesicle Book is meant to be a road companion a trusted guide for those making their first steps in this field as well as a source of information required by experts Key Features A complete summary of the field covering fundamental concepts practical methods core theory and the most promising applications A start up package of theoretical and experimental information for newcomers in the field Extensive protocols for establishing the required preparations and assays Tips and instructions for carefully performing and interpreting measurements with giant vesicles or for observing them including pitfalls Approaches developed for investigating giant vesicles as well as brief overviews of previous studies implementing the described techniques Handy tables with data and structures for ready reference

Federation Proceedings Federation of American Societies for Experimental Biology, 1976

[Curiosity And Passion For Science And Art](#) Uwe B Sleytr, 2016-07-04

This book describes the accomplishments of a curious and imaginative scientist and his endeavours to translate or even to extrapolate scientific insights into the world of art The science section in this volume concerns studies on S layers a very important class of proteins found on the surface of numerous Bacteria and nearly all Archaea S layer proteins are one of the most abundant biopolymers on our planet and assemble into the simplest type of biological membrane Moreover they are unique building blocks and patterning elements for the production of complex supramolecular structures and nanoscale

devices in nanobiotechnology molecular nanotechnology synthetic biology biomimetics and nanomedicine In the second part of this book the author goes on to passionately describe how his scientific activities stimulated his art work which in particular concerns the visualization of results and the potential of synthetic biology and evolutionary events induced by genetic manipulations Most importantly the engagement in art allowed him to leave the rather curtailed canon of science and reach a mental state of unlimited freedom of thoughts Mask like sculptures are used as examples to visualize the intersection between science and art and in particular the unpredictability and mystery of scientific visions *Catalog of Copyright Entries, Third Series* Library of Congress. Copyright Office, 1975 The record of each copyright registration listed in the Catalog includes a description of the work copyrighted and data relating to the copyright claim the name of the copyright claimant as given in the application for registration the copyright date the copyright registration number etc *Books and Pamphlets, Including Serials and Contributions to Periodicals* Library of Congress. Copyright Office, 1975-07 **Catalogue of Title-entries of Books and Other Articles Entered in the Office of the Librarian of Congress, at Washington, Under the Copyright Law ... Wherein the Copyright Has Been Completed by the Deposit of Two Copies in the Office** Library of Congress. Copyright Office, 1977 *Newsletter* New York State Veterinary College. Library, 1974

Enzymology at the Membrane Interface: Interfacial Enzymology and Protein-Membrane Binding, 2017-01-04 Enzymology at the Membrane Interface the latest volume in the Methods in Enzymology series covers a subset of enzymes that work in the environment of the biological cell membrane This field called interfacial enzymology involves a special series of experimental approaches for the isolation and study of these enzymes Covers a subset of enzymes that work in the environment of the biological cell membrane Offers a series of experimental approaches for the isolation and study of enzymes **Xenopus Protocols** X. Johné Liu, 2008-02-02 A collection of standard and cutting edge techniques for using *Xenopus* oocytes and oocytes egg extracts to reconstitute biological and cellular processes These readily reproducible methods take advantage of the oocyte s impressive protein abundance its striking protein translation capacity and its breathtaking possibilities for the assembly of infectious viral particles by single cell injection of multiple RNAs The authors focus on the versatility of frog oocytes and egg extracts in cell biology and signal transduction and cover all the major uses of oocytes extracts as experimental models **Lipids in Photosynthesis: Structure, Function and Genetics** Paul-André Siegenthaler, N. Murata, 2006-04-11 *Lipids in Photosynthesis* provides readers with a comprehensive view of the structure function and genetics of lipids in plants algae and bacteria with special emphasis on the photosynthetic apparatus in thylakoid membranes This volume includes the historical background of the field as well as a full review of our current understanding of the structure and molecular organization of lipids and their role in the functions of photosynthetic membranes The physical properties of membrane lipids in thylakoid membranes and their relationship to photosynthesis are also discussed Other topics include the biosynthesis of glycerolipids and triglycerides reconstitution of photosynthetic

structures and activities with lipids lipid protein interactions in the import of proteins into chloroplasts the development of thylakoid membranes as it relates to lipids genetic engineering of the unsaturation of membrane glycerolipids with a focus on the ability of the photosynthetic machinery to tolerate temperature stress and the involvement of chloroplast lipids in the reactions of plants upon exposure to stress This book is intended for a wide audience and should be of interest to advanced undergraduate and graduate students and to researchers active in the field as well as to those scientists whose fields of specialization include the biochemistry physiology molecular biology biophysics and biotechnology of membranes

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