

METHODS IN MEMBRANE BIOLOGY

VOLUME 4

Biophysical Approaches

Edited by

EDWARD D. KORN

 **Springer**

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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 **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

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Biophysical Approaches for the Study of Membrane Structure Part B, 2024-07-21 Biophysical Approaches for the Study of Membrane Structure Part B Volume 701 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 challenges related to their creation characterization simulation and theoretical description Chapters in this new release include Characterization of domain formation in complex membranes Analyzing the bending modulus from simulations of complex membranes The density threshold affinity Calculating lipid binding affinities from unbiased Coarse Grain Molecular Dynamics simulations and much

more Additional sections cover Uncertainty quantification for trans membrane stresses and moments from simulation Using molecular dynamics simulations to generate small angle scattering curves and cryo EM images of proteoliposomes Binary Bilayer Simulations for Partitioning Within Membranes Modeling Asymmetric Cell Membranes at All atom Resolution Multiscale remodeling of biomembranes and vesicles Building complex membranes with Martini 3 Predicting lipid sorting in curved bilayer membranes Simulating asymmetric membranes using P21 periodic boundary conditions and many other interesting topics 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

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

Molecular Organization of Membranes: Where Biology Meets Biophysics Marek Cebecauer,David Holowka,2018-02-07 Biological membranes protect cells and organelles from the surrounding environment but serve also as organising platforms for physiological processes such as cell signalling The hydrophobic core of membranes is composed of lipids and proteins influencing each other Local membrane composition and properties define its molecular organisation and in this way regulate the function of all associated molecules Therefore studying interactions of components biophysical properties and overall membrane dynamics provides essential information on its function in the context of cell activities Such knowledge can contribute to biomedical fields such as pharmacology immunology neurobiology and many others The goal of the Research Topic entitled Molecular organisation of membranes where biology meets biophysics was to provide a comprehensive platform for publishing articles reviews and opinions focused on membrane organisation and the forces behind its heterogeneous and dynamic structure We collected 11 works which cover topics as diverse as general membrane

organisation models membrane trafficking and signalling regulation biogenesis of caveolae protein lipid interactions and the importance of membrane associated tetraspanins networks The prevalent theme was the existence of membrane nanodomains To this point new emerging technologies are presented which own the power to bring a novel insight on how membrane nanodomains are formed and maintained and what is their function We believe that the collection of works in this Research Topic brings forward some important questions which will stimulate further research in this difficult but exciting field

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

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Table of Contents Methods In Membrane Biology Volume 4 Biophysical Approaches

1. Understanding the eBook Methods In Membrane Biology Volume 4 Biophysical Approaches
 - The Rise of Digital Reading Methods In Membrane Biology Volume 4 Biophysical Approaches
 - Advantages of eBooks Over Traditional Books
2. Identifying Methods In Membrane Biology Volume 4 Biophysical Approaches
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Methods In Membrane Biology Volume 4 Biophysical Approaches
 - User-Friendly Interface
4. Exploring eBook Recommendations from Methods In Membrane Biology Volume 4 Biophysical Approaches
 - Personalized Recommendations
 - Methods In Membrane Biology Volume 4 Biophysical Approaches User Reviews and Ratings
 - Methods In Membrane Biology Volume 4 Biophysical Approaches and Bestseller Lists

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 - ePub, PDF, MOBI, and More
 - Methods In Membrane Biology Volume 4 Biophysical Approaches Compatibility with Devices
 - Methods In Membrane Biology Volume 4 Biophysical Approaches Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Methods In Membrane Biology Volume 4 Biophysical Approaches
 - Highlighting and Note-Taking Methods In Membrane Biology Volume 4 Biophysical Approaches
 - Interactive Elements Methods In Membrane Biology Volume 4 Biophysical Approaches
8. Staying Engaged with Methods In Membrane Biology Volume 4 Biophysical Approaches
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Methods In Membrane Biology Volume 4 Biophysical Approaches
9. Balancing eBooks and Physical Books Methods In Membrane Biology Volume 4 Biophysical Approaches
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Methods In Membrane Biology Volume 4 Biophysical Approaches
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Methods In Membrane Biology Volume 4 Biophysical Approaches
 - Setting Reading Goals Methods In Membrane Biology Volume 4 Biophysical Approaches
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Methods In Membrane Biology Volume 4 Biophysical Approaches
 - Fact-Checking eBook Content of Methods In Membrane Biology Volume 4 Biophysical Approaches
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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