

# Methods in Membrane Biology

# Methods In Membrane Biology

**Edward D. Korn**



## **Methods In Membrane Biology:**

**Methods in Membrane Biology** Edward D. Korn, 2013-11-11 Examination of the tables of contents of journals biochemical molecular biological ultrastructural and physiological provides convincing evidence that membrane biology will be in the 1970s what biochemical genetics was in the 1960s And for good reason If genetics is the mechanism for maintaining and transmitting the essentials of life membranes are in many ways the essence of life The minimal requirement for independent existence is the individualism provided by the separation of life from the environment The cell exists by virtue of its surface membrane One might define the first living organism as that stage of evolution where macromolecular catalysts or self reproducing polymers were first segregated from the surrounding milieu by a membrane Whether that early membrane resembled present cell membranes is irrelevant What matters is that a membrane would have provided a mechanism for maintaining a local concentration of molecules facilitating chemical evolution and allowing it to evolve into biochemical evolution That or yet more primitive membranes such as a hydrocarbon monolayer at an air water interface could also have provided a surface that would facilitate the aggregation and specific orientation of molecules and catalyze their interactions If primitive membranes were much more than mere passive barriers to free diffusion how much more is this true of the membranes of contemporary forms of life A major revolution in biological thought has been the recognition that the cell and especially the eukaryotic cell is a bewildering maze of membranes and membranous organelles

**Methods in Membrane Biology** Edward D. Korn, 1976 *Methods in Membrane Biology* Edward D. Korn, 2012-12-06 The purposes of this series were discussed in the preface to Volume I to present a range of methods from the physical to the physiological in sufficient detail for the reader to use them in his laboratory and also to describe the theoretical backgrounds of the methods and their limitations in membrane biology so that the reader will be enabled to evaluate more critically and to understand more fully data obtained by methods foreign to his usual experiences The chapter by Lee Birdsall and Metcalfe with which Volume 2 begins accomplishes these twin goals with a thorough description of the application of nuclear magnetic relaxation measurements to membrane biology together with a lucid and succinct integration of the results of such studies into present concepts of the organization of membrane lipids This then permits speculation on the physical basis of membrane permeability The powerful tool of NMR spectroscopy will have even fuller application with the development of techniques already partially exploited for <sup>13</sup>C labeling of specific carbon atoms in lipid molecules and with extension of the observations to membrane proteins The following two chapters by Glick and by Laine Stellner and Hako mori describe the isolation and characterization of membrane glycoproteins and membrane glycolipids respectively

**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, 2013-11-21 The contributions of electron microscopy to membrane biology have been indispensable and at the same time disappointing Membranes were known to exist before the advent of electron microscopy and general principles of their composition and molecular organization had been deduced from permeability and electrical conductivity measurements polarized light microscopy and X ray diffraction On the other hand the complexities of the many intracellular membranes and membranous organelles were really not suspected until they were observed by the electron microscopist One then had further hopes that the high resolution of the electron microscope theoretically it can resolve atomic distances would allow the visualization of the molecular architecture of membranes and lead directly to an understanding of structure and function at the molecular level This expectation has been largely unrealized Because of the great difficulties encountered in the preparation of biological material because of the uncertainty of the chemistry of staining and because of numerous electron optical artifacts it has been a major challenge just to rationalize the observed images in terms of the known facts let alone to utilize the images to expand our knowledge of the molecular structure of biological membranes The many differences among membranes with respect to function and composition are lost in the universal trilamellar image Perhaps the one major exception to this and the major structural contribution of electron microscopy at the molecular level has come from freeze etch electron microscopy

Methods in Membrane Biology Edward D. Korn, 2012-12-06 Volume 3 continues the approach carried out in the first two volumes of this series of publishing articles on membrane methodology which include in addition to procedural details incisive discussions of the applications of the methods and of their limitations What is the theoretical basis of the method how and to what problems can it be applied how does one interpret the results what has thus far been achieved by the method what lies in the future these are the questions the authors have tried to answer No area of membrane biology engages the interest of more investigators than studies of the plasma membrane Four chapters in this volume are concerned with one or more aspects of the cell surface Fundamental to all studies of the cell surface are the isolation and characterization of pure plasma membranes Many preparations described in the literature are inadequate or are inadequately characterized In the first

chapter Neville discusses the theoretical and practical bases of tissue fractionation emphasizes the variations in enzyme content among plasma membranes from different sources offers guidance in the choice of the proper criteria for assessing membrane purity and suggests the best markers for detecting the possible presence of contaminating organelles To review in detail each of the many preparations of plasma membranes that have been published is impossible Methods in Membrane Biology Edward D. Korn,2014-09-01

**Methods in Membrane Biology** Edward D. Korn,2013-04-17 Less than a year before this writing a Nobel Prize was shared by Albert Claude Christian de Duve and George Palade pioneers in the development of modern cell biology of which membrane biology is an integral part For many years a seemingly unbridgeable gap separated the physiologist working at the organ level from the biochemist studying the molecular composition of cell constituents and the chemical reactions that occur in water soluble extracts of cells Physiology has a long history and the disciplines epitomized by intermediary metabolism and molecular biology progressed rapidly during the 1950s and 1960s Meanwhile electron microscopists painstakingly mapped the newly discovered intracellular world of membranes organelles microtubules and microfilaments and other scientists developed techniques for the quantitative separation and characterization of these intracellular structures Thus it finally became possible to localize the many enzymes and the metabolic activities they catalyze to recognizable structures whose composition and organization can be studied We are now well on our way to bridging that gap between biochemistry and physiology to understanding how the cell functions

**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** 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* Edward D. Korn, 1976-05-01

**Methods in Membrane Biology** Edward Korn, 1978-02-01      **Methods in Membrane Biology** Edward D.

Korn, 1975-03 Volume 3 continues the approach carried out in the first two volumes of this series of publishing articles on membrane methodology which include in addition to procedural details incisive discussions of the applications of the methods and of their limitations What is the theoretical basis of the method how and to what problems can it be applied how does one interpret the results what has thus far been achieved by the method what lies in the future these are the questions the authors have tried to answer No area of membrane biology engages the interest of more investigators than studies of the plasma membrane Four chapters in this volume are concerned with one or more aspects of the cell surface Fundamental to all studies of the cell surface are the isolation and characterization of pure plasma membranes Many preparations described in the literature are inadequate or are inadequately characterized In the first chapter Neville discusses the theoretical and practical bases of tissue fractionation emphasizes the variations in enzyme content among plasma membranes from different sources offers guidance in the choice of the proper criteria for assessing membrane purity and suggests the best markers for detecting the possible presence of contaminating organelles To review in detail each of the many preparations of plasma membranes that have been published is impossible *Methods in Membrane Biology* Edward D. Korn, 1979-01-04 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.** Edward D. Dorn,1975

*Methods in Membrane Biology* 3Island Press,1977-01-01      **Methods in Membrane Biology, V. 4** ,1975      Methods in Membrane Biology. Edward D. Dorn,1975      Cell Membranes Methods and Reviews Elliot Elson,1983-05-15 Cell Membranes Methods and Reviews is the continuation of a distinguished series of books edited by Edward Korn under the title *Methods in Membrane Biology* While the original series nominally dealt with methods for the study of membranes its chapters were in fact much broader and covered the conceptual framework upon which the methods were based as well as the methodology per se In continuing this series we changed the title to reflect this broader point of view We hope to present a series of volumes published at roughly annual intervals containing comprehensive reviews dealing with various aspects of membrane biochemistry We will on occasion also include short chapters that deal exclusively with new methods and their applications The biology of membranes as we view it is very broad and we hope therefore not only to include work that is directly related to molecules present in membranes but also to treat molecules that interact with membrane components In each of the volumes we hope to have one or two areas of concentration and to include chapters that collectively present a balanced and comprehensive review of those particular fields In this first volume we have concentrated on transport of solutes across the membrane We are grateful to the authors who have provided us with excellent and comprehensive chapters in these areas in a timely fashion

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