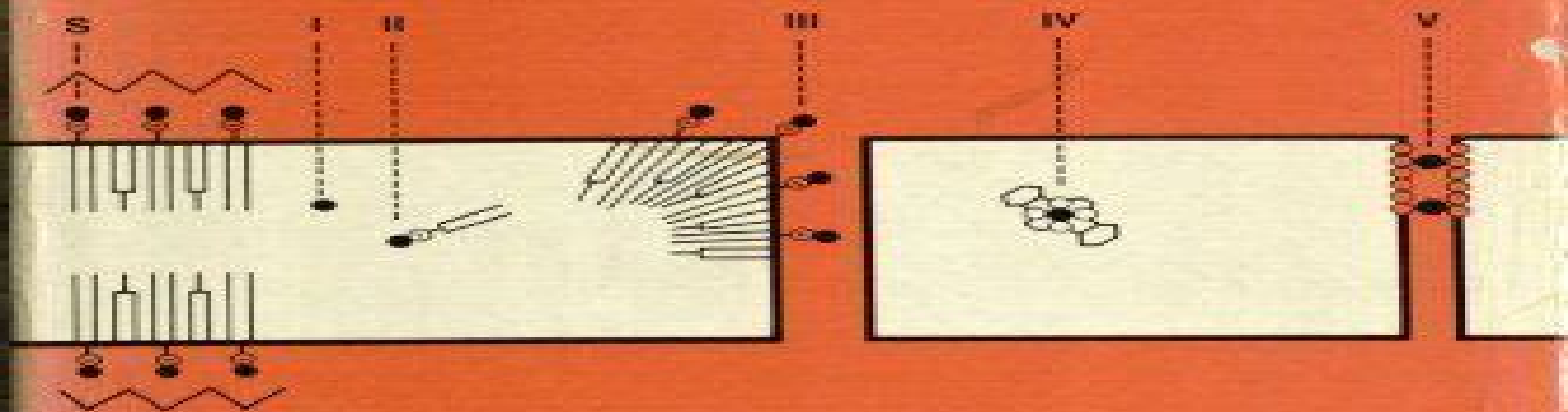


MEMBRANES

volume 2

Lipid Bilayers and Antibiotics



edited by GEORGE EISENMAN

Membranes Vol 2 Lipid Bilayers And Antibiotics

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Membranes Vol 2 Lipid Bilayers And Antibiotics:

Advances in Planar Lipid Bilayers and Liposomes A. Ottova-Leitmannova, 2005-09 The lipid bilayer is central to life as all living organisms possess a lipid bilayer structure thereby underlying the lipid bilayer principle of biomembranes The lipid bilayer principle and its applications are the main theme of this new book series This new series on bilayer lipid membranes BLMs and liposomes include invited chapters on a broad range of topics from theoretical investigations specific studies experimental methods to practical applications Written for newcomers experienced scientists and those who are not familiar with these specific research areas the Series covers all aspects of lipid bilayer investigations both fundamental and applied Covers a broad range of topics ranging from theoretical research specific studies experimental methods to practical applications Authoritative timely reviews by experts in this field Indispensable source of information for new scientists

Advances in Planar Lipid Bilayers and Liposomes A. Leitmannova Liu, 2011-08-09 Advances in Planar Lipid Bilayers and Liposomes Volume 8 is the latest in our series on both planar lipid bilayers and spherical liposomes This field of research based on a historic perspective of the lipid bilayer concept and its experimental realization as well as on spherical liposomes is growing and developing stronger ties with many new exciting interdisciplinary areas This volume includes invited chapters on a broad range of topics covering both main arrangements of the reconstituted system namely planar lipid bilayers and spherical liposomes Many of the contributing authors collaborated in the past with the late Prof H Ti Tien the founding editor of this book series The book also includes chapters written by some of the younger generation of scientists included in this series This volume keeps in mind the broader goal with both systems planar lipid bilayers and spherical liposomes which is the further development of this interdisciplinary field worldwide This book is an ideal resource for chemical Engineers physical chemists biologists and biochemists biochemical engineers Incorporates contributions from newcomers and established and experienced researchers Explores the planar lipid bilayer systems and spherical liposomes from both theoretical and experimental perspectives Serves as an indispensable source of information for new scientists

Physiology of Membrane Disorders Thomas E. Andreoli, Darrell D. Fanestil, Joseph F. Hoffman, Stanley G. Schultz, 2013-11-11 The second edition of Physiology of Membrane Disorders represents an extensive revision and a considerable expansion of the first edition Yet the purpose of the second edition is identical to that of its predecessor namely to provide a rational analysis of membrane transport processes in individual membranes cells tissues and organs which in turn serves as a frame of reference for rationalizing disorders in which derangements of membrane transport processes play a cardinal role in the clinical expression of disease As in the first edition this book is divided into a number of individual but closely related sections Part V represents a new section where the problem of transport across epithelia is treated in some detail Finally Part VI which analyzes clinical derangements has been enlarged appreciably THE EDITORS xi Preface to the First Edition The purpose of this book is to provide the reader with a rational frame of reference for assessing the pa

thophysiology of those disorders in which derangements of membrane transport processes are a major factor responsible for the clinical manifestations of disease In the present context we use the term membrane transport to refer to those molecular processes whose cardinal function broadly speaking is processes in a catholic sense the vectorial transfer of molecules either individually or as ensembles across biological interfaces the latter including those interfaces which separate different intracellular compartments the cellular and extracellular compartments and secreted fluids such as glomerular filtrate and extracellular fluids

Membrane Physiology T.E. Andreoli, 2013-04-17 Membrane Physiology is a soft cover book containing portions of Physiology of Membrane Disorders published in larger hard cover form in 1978 The parent volume was divided into five parts described in detail in the Preface to the hard cover edition which is reproduced in this volume The present version of Membrane Physiology incorporates the first three of these parts including a section on the Nature of Biological Membranes a section on Methods for Studying Membranes and a section on General Problems in Membrane Biology It is the hope of the Editors that this smaller volume will be of value to individuals interested in general physiology the methods for studying general physiology and its potential application to problems of clinical and physiological relevance The Preface to Physiology of Membrane Disorders indicates our general reasoning for developing such a volume THOMAS E ANDREOLI JOSEPH F HOFFMAN DARRELL D FANESTIL VII Preface to Physiology of Membrane Disorders The purpose of this book is to provide the reader with a rational frame of reference for assessing the pathophysiology of those disorders in which derangements of membrane transport processes are a major factor responsible for the clinical manifestations of disease

Subcellular Biochemistry Donald B. Roodyn, 2012-12-06 This volume continues the tradition of SUBCELLULAR BIOCHEMISTRY of trying to break down interdisciplinary barriers in the study of cell function and of bringing the reader's attention to less well studied but nevertheless useful biological systems We start with an extensive article by T P Karpetsky M S Boguski and C C Levy on the structure properties and possible functions of polyadenylic acid Apart from revealing a general lack of appreciation of many important aspects of the chemical properties of polyadenylic acid the literature also shows that there is a great gulf between those who study the biological role of polyadenylic acid and those who study its physicochemical properties The article by Karpetsky and his colleagues is an attempt to overcome this lack of communication and to present an integrated view of the subject The authors go into the subject in full detail and the more biologically inclined reader may on occasion have to reread his nucleic acid physical chemistry notes However the effort is worthwhile and the article is a timely reminder that we cannot treat nucleic acids as mere abstractions but that they are complex organic macromolecules capable of equally complex but nevertheless important interactions The next article is by J Steensgaard and N P Hundahl Møller and deals with computer simulation of density gradient centrifugation systems

Symposium on Ion Transport Across Lipid Bilayer Membranes Ulrik V. Lassen, Hans H. Ussing, Jens Otto Wieth, 1980

Electrochemistry H R Thirsk, 2007-10-31 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

Electrochemistry Harold Reginald Thirsk, 1974 This product is not available separately it is only sold as part of a set There are 750 products in the set and these are all sold as one entity 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

Concepts and Models D.C. Tosteson, 2012-12-06 This Volume forms the cornerstone of this series of four books on Membrane Transport in Biology It includes chapters that address i the theoretical basis of investigations of transport processes across biological membranes ii some of the experimental operations often used by scientists in this field iii chemical and biological properties common to most biological membranes and iv planar thin lipid bilayers as models for biological membranes The themes developed in these chapters recur frequently throughout the entire series Transport of molecules across biological membranes is a special case of diffusion and convection in liquids The conceptual frame of reference used by investigators in this field derives in large part from theories of such processes in homogeneous phases Examples of the application of such theories to transport across biological membranes are found in Chapters 2 and 4 of this Volume In Chapter 2 Sten Knudsen emphasizes a statistical and molecular approach while in Chapter 4 Sauer makes heavy

use of the thermodynamics of irreversible processes Taken together these contributions introduce the reader to the two sets of ideas which have dominated the thinking of scientists working in this field Theoretical consideration of a more special character are also included in several other Chapters in Volume I For example Ussing Chapter 3 re works the flux ratio equation which he introduced into the field of transport across biological membranes in 1949

Nephrotoxic Mechanisms of Drugs and Environmental Toxins George A. Porter, 2013-11-21 The majority of the offending toxicants to be reviewed in this volume were developed to help mankind and it is only with prolonged or widespread application that their adverse effects have been recognized Conversely in the case of prescription drugs there has been an attempt to identify the adverse effects in advance and incorporate these risks into the decision of approval for human consumption Unfortunately for those drugs in which recognized injury occurs only after prolonged use such appraisals are made in retrospect Despite this most renal injury induced by drugs or toxicants can be either prevented by excluding drugs with unacceptable side effects or interrupted by eliminating the offending agent once damage is manifested The fact that prevention reversibility or arrest of renal injury is possible provided a major impetus for this publication Since no international registry for nephrotoxic injury exists estimates of incidence must rely on less than ideal sources Recently I together with Dr William Bennett summarized a survey of the frequency of various categories of nephrologic disease Porter and Bennett 1981 Based on this survey we projected that in nearly one of ten patients seeking nephrologic consultation a nephrotoxic etiology may be involved Of cases of end stage renal disease between 3 and 4% are due to drug nephrotoxicity according to recent published results European Dialysis and Transplant Association 1979 For acute renal failure antibiotics and contrast agents persist as major offending agents while for chronic renal failure analgesics remain a worldwide problem

Electrodifussion in Polar Lipid Membranes of Molecular Dimensions R. W. Bradshaw, 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 proings 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

Progress in Surface

and Membrane Science D. A. Cadenhead, J. F. Danielli, 2013-10-22 Progress in Surface and Membrane Science Volume 10 covers the advances in surface and membrane science The book discusses the selective changes of cellular particles influencing sedimentation properties and the rotating disk and ring disk electrodes in investigations of surface phenomena at the metal electrolyte interface The text also describes the membrane potential of phospholipid bilayer and biological membranes the adsorption of surfactant monolayers at gas liquid and liquid liquid interfaces and the enzymes immobilized on glass Chemists and people involved in electrochemistry will find the book invaluable *Transport Across Multi-Membrane Systems* G. Giebisch, 2012-12-06 The contributions of this volume are concerned with transport phenomena in multimembrane systems and in simple epithelia In addition to the very substantial progress that has been made in the area of transport of fluid and solutes across artificial model membranes in vitro and across simple symmetrical cell membranes much has been learned from studies of transport phenomena in multi membrane systems of higher complexity to be reviewed in this volume It should be recalled that many of the fundamental conceptual and methodological problems of transport physiology have been successfully approached and defined by studying simple epithelia in vitro and that the direction that research has taken has been affected in a major way by the cellular transport models that have evolved from this approach Since then striking progress has been made in several areas Not only have we been witnessing a keen and productive interest in the relationship between fine structure and transport behavior in multimembrane systems but significant advancements have also been made in defining individual active and passive transport operations in analysing cell ion activities and transport pools and in describing the differences in transport functions that underly the membrane asymmetry and cell polarization of cells subserving directional transport *Inclusion Aspects of Membrane Chemistry* T. Osa, J. L. Atwood, 2012-12-06 There is no doubt that the field of artificial membrane transport using synthetic ionophores has advanced remarkably in the past 15 years due primarily to the synthesis of new ionophores Even though the theoretical framework substantially predated this activity the merging of theory with transport experiment has often been sketchy The purpose of this outline has been to examine key examples to illustrate the underlying principles and to suggest how experimental variables dominate the results obtained To a very good approximation the assumption of a diffusion regime is often justified is easily confirmed experimentally and provides a clear framework for exploitation of the inherent selectivity of a given ionophore Thus for synthetic chemists who wish a quick and nasty experiment to examine the question of selectivity the recipe is clear a mixture containing all ions of interest in a standard experiment for each ligand of interest using a moderately stirred 100 200 rpm cell and analysis of the mixture produced on the OUT side of the cell at a fixed small extent of transport Together with duplicates and controls this modest set of experiments will place the results on an unambiguous footing from which clear conclusions about each ionophore's characteristics are readily obtained For those with more detailed interests in the transport process the demands are correspondingly higher *Advances in Bioelectrochemistry*

Volume 2 Frank Nelson Crespilho, 2022-03-19 This book presents a collection of chapters on modern bioelectrochemistry showing different aspects of materials and electrode processes The chapters cover biomimetics bioelectrocatalysis large scale biodevices manufacturing organic semiconductors for biorecognition biofunctionalization conducting polymers carbon based materials and 3D printed bioelectrochemical devices They provide relevant bibliographic information for researchers and students interested in biomimetics applied in electrochemistry with impact in bioelectrocatalysis large scale deposition techniques applied to biodevices manufacturing and organic semiconductors as support material for electrochemical biorecognition This book also presents insights on advantages and properties of biofunctionalization conducting polymers with carbon based materials in biosensors applications and progress on 3D printed electrochemical devices for sensing and biosensing of biomarkers Chitosan Based Biomaterials Volume 2 Jessica Amber Jennings, Joel David

Bumgardner, 2016-09-28 Chitosan Based Biomaterials Tissue Engineering and Therapeutics Volume 2 provides the latest information on chitosan a natural polymer derived from the marine material chitin Chitosan displays unique properties most notably biocompatibility and biodegradability It can also be easily tuned to modify its structure or properties making chitosan an excellent candidate as a biomaterial Consequently chitosan is being developed for many biomedical functions ranging from tissue engineering and implant coatings to drug and gene delivery This book provides readers with a full coverage of the applications of chitosan based biomaterials Presents specific focus on tissue engineering and therapeutics Provides comprehensive treatment of all biomaterial applications of chitosan Contains contributions by leading researchers with extensive experience in the material **Cumulated Index Medicus**, 1976 **Biomembrane Structures** Parvez I. Haris, Dennis Chapman, 1998 Biological membranes play a significant role in a range of biological processes such as ion transport and signal transduction Over the years much effort has been devoted towards developing an understanding of biomembrane structure The study of this subject is now reaching an important stage This is because at last the full three dimensional structure of certain membrane proteins is beginning to be resolved In the past three dimensional structures of membrane proteins were difficult to obtain as only two dimensional crystals were available In recent years satisfactory crystals have been obtained and X ray diffraction techniques have been applied This has led to the three dimensional structures of the photosynthetic reaction centres porins and more recently the structure of cytochrome oxidase Of course not all membrane proteins are readily crystallisable and some are not even available in sufficient quantities to obtain the necessary crystals or to carry out biophysical experiments In some cases e g the voltage gated potassium ion channel membrane proteins their structure has been proposed mainly on the basis of molecular biology methods This has prompted the search for alternative approaches for characterising biomembrane structure Molecular biological studies are providing a wealth of information on a number of different membrane proteins Combining the information derived from such studies with molecular modelling is becoming extremely useful for relating structure to function Development of other approaches include

synthesis and structure function analysis of peptides corresponding to functionally important domains of membrane proteins This book presents a series of Chapters discussing how a combination of molecular biological biophysical and theoretical molecular modelling techniques are helping us to obtain a much clearer picture of biomembrane structure After an introductory Chapter on the Principles of membrane Protein Structure the book is divided into two sections one dealing with crystallographic approaches and the other non crystallographic approaches such as NMR AFM SPR and FTIR spectroscopy Chapters dealing with the recently solved crystal structure of cytochrome oxidase and bacteriorhodopsin are presented The book contains contributions from leading membrane scientists describing their latest studies It provides an up to date coverage of the developments in the field of biomembranes with particular emphasis on membrane proteins

Mechanism of Action of Antieukaryotic and Antiviral Compounds Fred E. Hahn, 2012-12-06 When Antibiotics I was published in 1967 the teleological view was held by some that antibiotics were substances elaborated by certain microorganisms for the purpose of competing with other microorganisms for survival in mixed ecological environments However not only had J EHRLICH and his associates shown 15 years earlier that chloramphenicol was produced by *Streptomyces venezuelae* in cultures of sterilized soils but not in parallel cultures of the same soils which were not sterilized but operationally the search for anti cancer antibiotics was actively under way Antibiotics I reporting on numerous such substances although the concept of antibiosis could not logically justify such undertakings This editor hesitates to accept the use of the term antibiotic for anti microbial agents of non microbiological origins which is sometimes encountered but neither does he subscribe to the view that antibiotics are in some fundamental manner different from chemotherapeutic substances of other origins Modes and mechanisms of action of chemotherapeutic compounds are not systematic functions of their origins nor of the taxonomical position of the target organisms Consequently in the selection of topics for Antibiotics III published in 1975 synthetic drugs and natural products of higher plants alkaloids were represented along with antibiotics in the strict sense of the definition We now present Antibiotics V for whose assembly the same selection criteria were applied as for Antibiotics III The aggregate length of the contributions rendered it impractical to place the entire text between the covers of one book

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