

BIOPHYSICAL CHEMISTRY: MOLECULES TO MEMBRANES

Bergethon, Peter R.

Biophysical Chemistry Molecules To Membranes

D. Das

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Biophysical Chemistry Molecules To Membranes:

Biophysical Chemistry Peter R. Bergethon, Elizabeth R. Simons, 1990 Biophysical Chemistry Molecules to Membranes is a one semester textbook for graduate and senior undergraduate students Developed over several years of teaching the approach differs from that of other texts by emphasizing thermodynamics of aqueous solutions by rigorously treating electrostatics and irreversible phenomena and by applying these principles to topics of biochemistry and biophysics The main sections are 1 Basic principles of equilibrium thermodynamics 2 Structure and behavior of solutions of ions and molecules The discussions range from properties of bulk water to the solvent structure of solutions of small molecules and macromolecules 3 Physical principles are extended for the non homogenous and non equilibrium nature of biological processes Areas included are lipid water systems transport phenomena membranes and bio electrochemistry This new textbook will provide an essential foundation for research in cellular physiology biochemistry membrane biology as well as the derived areas bioengineering pharmacology nephrology and many others **The Physical Basis of Biochemistry**

Peter R. Bergethon, 2013-03-14 The objective of this book is to provide a unifying approach to the study of biophysical chemistry for the advanced undergraduate who has had a year of physics organic chemistry calculus and biology This book began as a revised edition of Biophysical Chemistry Molecules to Membranes which Elizabeth Simons and I coauthored That short volume was written in an attempt to provide a concise text for a one semester course in biophysical chemistry at the graduate level The experience of teaching biophysical chemistry to biologically oriented students over the last decade has made it clear that the subject requires a more fundamental text that unifies the many threads of modern science physics chemistry biology mathematics and statistics This book represents that effort This volume is not a treatment of modern biophysical chemistry with its rich history and many controversies although a book on that topic is also needed The Physical Basis of Biochemistry is an introduction to the philosophy and practice of an interdisciplinary field in which biological systems are explored using the quantitative perspective of the physical scientist I have three primary objectives in this volume one to provide a unifying picture of the interdisciplinary threads from which the tapestry of biophysical studies is woven two to provide an insight into the power of the modeling approach to scientific investigation and three to communicate a sense of excitement for the activity and wholesome argument that characterize this field of study *Biophysical Chemistry*

Robin Leatherbarrow, R H Templer, 2007-10-31 In the post genomic world advances in the comprehension of cell behaviour will depend upon scientists deciphering the molecular basis of interactions between proteins and membranes Bringing together contributions from chemists biologists and physicists Biophysical Chemistry Membranes and Proteins demonstrates how multidisciplinary teams can gain insights into understanding complex biological systems This book reflects both the scope and the interdisciplinary nature of the field with topics including modelling of biological systems membrane structure and interactions probing biomolecules and channels and receptors Full of stimulating articles and opinions readers from

academia and industry will welcome the wide range of coverage and the state of the art science

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 Chemistry, 1993 Fundamentals of Polymer Physics and Molecular Biophysics Himadri B. Bohidar, 2015-01-05 Provides a physical interpretation of the data obtained in macromolecular transport phenomena in a given system and also addresses some important issues and concepts related to biopolymers such as proteins and nucleic acids

Cell Physiology Source Book Nicholas Sperelakis, Nick Sperelakis, 2001-08-02 This completely revised and updated source book provides comprehensive and authoritative coverage of cell physiology and membrane biophysics Intended primarily as a text for advanced undergraduate and graduate students and as a reference for researchers this multidisciplinary book includes several new chapters and is an invaluable aid to scientists interested in cell physiology biophysics cell biology electrophysiology and cell signaling

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CHOICE a core textbook in cell physiology The need for such a book is well justified and

it fulfills its objectives admirably It is especially strong on the subjects of signal transduction membrane biology ion channels and neuronal and muscle cell physiology It is a solid textbook in its field DOODY S PUBLISHING REVIEWS Cell Physiology Source Book 2e will be useful for advanced undergraduate and graduate students studying cell physiology cell biophysics electrophysiology and biological scientists in many fields The book is particularly suitable for introducing cell physiology to students with training in the physical sciences and for introducing cell biophysics to students with backgrounds in biology BIOPHYSICAL JOURNAL The Cell Physiology Source Book was on CHOICE s list of Outstanding Academic Books for 1996 and the second edition was on CHOICE s list of Outstanding Academic Books in 1998 The Structure and Function of the Membranes and Surfaces of Cells David James Bell, James Kerr Grant, 1963 *Cell Physiology Source Book* Nick Sperelakis, 2012-01-11 Cell Physiology Source Book gathers together a broad range of ideas and topics that define the field It provides clear concise and comprehensive coverage of all aspects of cellular physiology from fundamental concepts to more advanced topics The 4e contains substantial new material Most chapters have been thoroughly reworked The book includes chapters on important topics such as sensory transduction the physiology of protozoa and bacteria and synaptic transmission Authored by leading researchers in the field Clear concise and comprehensive coverage of all aspects of cellular physiology from fundamental concepts to more advanced topics Full color illustrations **Biophysics & Biophysical Chemistry** D. Das, 1982 **Cell Physiology** Nicholas Sperelakis, 2013-10-22 A multi authored and comprehensive text Cell Physiology Source Book enables graduate students in various biological sub disciplines to gain a thorough understanding of cell physiology It begins with a review of the physical chemistry of solutions protein structure and membrane structure and ends with an Appendix featuring reviews of electricity electrochemistry and cable properties of cells In between this book is loaded with information on membrane potentials cell metabolism signal transduction transport physiology and pumps membrane excitability and ion channels synaptic transmission sensory transduction muscle contraction excitation contraction coupling bioluminescence photosynthesis and plant cell physiology This exhaustive work provides graduate students with detailed and authoritative coverage of nearly all aspects of cell physiology Such broad coverage of this field within a single source makes for a unique text Chapters written in a clear concise and didactic style and appropriate reviews of basic physics and chemistry are among the many distinguishing features of this monumental treatise Comprehensive source book of cell physiology Authoritative and multi authored by leading experts in the field Unique features include broad coverage and review of relevant physics chemistry and metabolism Clear concise and didactic Includes reviews of physical chemistry of solutions protein structure membrane structure electrochemistry and electricity Topic covered include plant cell physiology photosynthesis bioluminescence effects of pressure cilia and flagellae Detailed treatise on ion channels and their regulation *Cell Physiology Sourcebook* Nicholas Sperelakis, 2001-05-15 This completely revised and updated source book provides comprehensive and authoritative coverage of cell physiology and membrane biophysics Intended primarily as a text for

advanced undergraduate and graduate students and as a reference for researchers this multidisciplinary book includes several new chapters and is an invaluable aid to scientists interested in cell physiology biophysics cell biology electrophysiology and cell signaling Includes broad coverage of both animal and plant cells Appendices review basics of the propagation of action potentials electricity and cable properties Biophysical Chemistry of Membrane Functions Arnošt Kotyk, Dr. Karel Janáček, Jiří Koryta, 1988 The book provides balanced information on the biology chemistry and physics of membrane properties and their specific functions in the flow of material transduction of energy and transformation of signals Up to date specific data on these various properties and functions are contained in the book thus making it a reference text on such subjects as membrane composition membrane structure all known systems of transport all different mechanisms of energy transduction and on selected types of signal transformation

Membranes to Molecular Machines Mathias Grote, 2019-07-19 Today's science tells us that our bodies are filled with molecular machinery that orchestrates all sorts of life processes When we think microscopic channels open and close in our brain cell membranes when we run tiny motors spin in our muscle cell membranes and when we see light operates molecular switches in our eyes and nerves A molecular mechanical vision of life has become commonplace in both the halls of philosophy and the offices of drug companies where researchers are developing proton pump inhibitors or medicines similar to Prozac *Membranes to Molecular Machines* explores just how late twentieth century science came to think of our cells and bodies this way This story is told through the lens of membrane research an unwritten history at the crossroads of molecular biology biochemistry physiology and the neurosciences that directly feeds into today's synthetic biology as well as nano and biotechnology Mathias Grote shows how these sciences not only have made us think differently about life they have by reworking what membranes and proteins represent in laboratories allowed us to manipulate life as active matter in new ways Covering the science of biological membranes in the United States and Europe from the mid 1960s to the 1990s this book connects that history to contemporary work with optogenetics a method for stimulating individual neurons using light and will enlighten and provoke anyone interested in the intersection of chemical research and the life sciences from practitioner to historian to philosopher The research described in the book and its central actor Dieter Oesterhelt were honored with the 2021 Albert Lasker Basic Medical Research Award for his contribution to the development of optogenetics

The Physical Chemistry of MEMBRANES B. Silver, 2012-12-06 Ls book is an account of what physical chemistry has to say about the structural electrical and transport properties of biological membranes and their simplest model the lipid bilayer The accent throughout is on basic ideas In contrast to the essentially descriptive approach characteristic of texts on membrane biochemistry our underlying themes are the role of force and entropy in maintaining membrane organization in determining the electric fields and ionic environment of membranes and in regulating the passage of molecules and ions across membranes Although experimental findings will always be the touch stone against which theory will be tried no attempt is made to present an

exhaustive survey of experimental data On the other hand there is discussion of the nature and limitations of the results obtainable by the major laboratory techniques The treatment is at the level of an advanced undergraduate course or an introductory survey suitable for post graduate students carrying out research in biochemistry biophysics or physiology The mathematical demands on the reader are trivial The few forbidding equations appearing in Chapter 7 are soon whittled away to simple practical expressions Although the current voltage characteristics of nerves are traditionally the province of biophysics rather than physical chemistry certain aspects relevant to the electrical activity of nerves are nevertheless included in this text namely membrane and diffusion potentials and conductivity fluctuations Where rival theories exist conflicting convictions have been presented but not necessarily accorded equal approbation The author has a viewpoint

Research Awards Index ,1987 **Liposomes, Lipid Bilayers and Model Membranes** Georg Pabst,Norbert Kučerka,Mu-Ping Nieh,John Katsaras,2014-03-04 As a result of their unique physical properties biological membrane mimetics such as liposomes are used in a broad range of scientific and technological applications Liposomes Lipid Bilayers and Model Membranes From Basic Research to Application describes state of the art research and future directions in the field of membranes which has evolved from basic studies of the physicochemical properties of amphiphiles to their application in industry and medicine Written by leading researchers in their fields this book describes basic and applied research and serves as a useful reference for both the novice and the expert Part one covers a range of basic research topics from theory and computational simulations to some of the most up to date experimental research Topics discussed include soft matter physics of membranes nonlamellar phases extraction of molecules by amphiphiles lipid models for membrane rafts membrane dynamics nanodiscs microemulsions active membranes as well as interactions of bilayers with drugs or DNA to treat disease or for gene transfer respectively Part two of the book focuses on technological applications of amphiphiles such as liposome based nanoparticles for drug delivery formulation of liposomes for prolonged in vivo circulation and functionalization for medical purposes novel drug delivery systems for increased drug loading and the use of tethered membranes for bio sensing applications Chapters also describe the use of liposomes in textile dyeing and how lipidic nanoparticles are used by the food industry *Comprehensive Biophysics* ,2012-04-12 Biophysics is a rapidly evolving interdisciplinary science that applies theories and methods of the physical sciences to questions of biology Biophysics encompasses many disciplines including physics chemistry mathematics biology biochemistry medicine pharmacology physiology and neuroscience and it is essential that scientists working in these varied fields are able to understand each other's research Comprehensive Biophysics Nine Volume Set will help bridge that communication gap Written by a team of researchers at the forefront of their respective fields under the guidance of Chief Editor Edward Egelman Comprehensive Biophysics Nine Volume Set provides definitive introductions to a broad array of topics uniting different areas of biophysics research from the physical techniques for studying macromolecular structure to protein folding muscle and molecular motors

cell biophysics bioenergetics and more The result is this comprehensive scientific resource a valuable tool both for helping researchers come to grips quickly with material from related biophysics fields outside their areas of expertise and for reinforcing their existing knowledge Biophysical research today encompasses many areas of biology These studies do not necessarily share a unique identifying factor This work unites the different areas of research and allows users regardless of their background to navigate through the most essential concepts with ease saving them time and vastly improving their understanding The field of biophysics counts several journals that are directly and indirectly concerned with the field There is no reference work that encompasses the entire field and unites the different areas of research through deep foundational reviews Comprehensive Biophysics fills this vacuum being a definitive work on biophysics It will help users apply context to the diverse journal literature offering and aid them in identifying areas for further research Chief Editor Edward Egelman E I C Biophysical Journal has assembled an impressive world class team of Volume Editors and Contributing Authors Each chapter has been painstakingly reviewed and checked for consistent high quality The result is an authoritative overview which ties the literature together and provides the user with a reliable background information and citation resource

Computational Pharmaceutics Defang Ouyang, Sean C. Smith, 2015-07-20 Molecular modeling techniques have been widely used in drug discovery fields for rational drug design and compound screening Now these techniques are used to model or mimic the behavior of molecules and help us study formulation at the molecular level Computational pharmaceutics enables us to understand the mechanism of drug delivery and to develop new drug delivery systems The book discusses the modeling of different drug delivery systems including cyclodextrins solid dispersions polymorphism prediction dendrimer based delivery systems surfactant based micelle polymeric drug delivery systems liposome protein peptide formulations non viral gene delivery systems drug protein binding silica nanoparticles carbon nanotube based drug delivery systems diamond nanoparticles and layered double hydroxides LDHs drug delivery systems Although there are a number of existing books about rational drug design with molecular modeling techniques these techniques still look mysterious and daunting for pharmaceutical scientists This book fills the gap between pharmaceutics and molecular modeling and presents a systematic and overall introduction to computational pharmaceutics It covers all introductory advanced and specialist levels It provides a totally different perspective to pharmaceutical scientists and will greatly facilitate the development of pharmaceutics It also helps computational chemists to look for the important questions in the drug delivery field This book is included in the Advances in Pharmaceutical Technology book series *Research Grants Index* National Institutes of Health (U.S.). Division of Research Grants, 1975

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