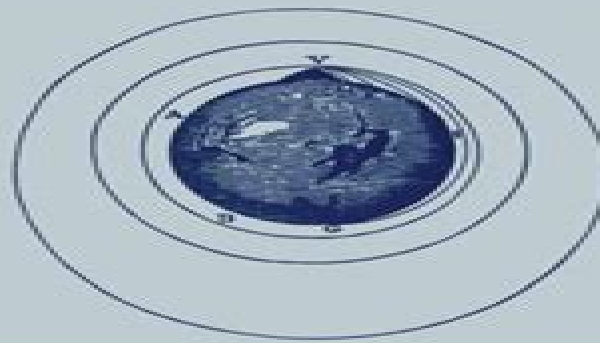


Physical Properties of Biological Membranes and Their Functional Implications

SERIES OF THE
CENTRO DE ESTUDIOS CIENTIFICOS DE SANTIAGO



Edited by Cecilia Hidalgo

Physical Properties Of Biological Membranes And Their Functional Implications

**Dennis Chapman, Donald Francis
Hoelzl Wallach**



Physical Properties Of Biological Membranes And Their Functional Implications:

Physical Properties of Biological Membranes and Their Functional Implications Cecilia Hidalgo, 2012-12-06 This book was originated from a series of lectures given in a course on the physical properties of biological membranes and their functional implications The course was intended to allow students to get acquainted with the physical techniques used to study biological membranes The experience was valuable and we feel that a detailed description of the procedures used and of various examples of the results obtained allowed many students to become familiar with a theme that is not often part of regular courses on membrane physiology or biophysics This book is designed as a tutorial guide for graduate students interested in understanding how physical methods can be utilized to study the properties of biological membranes It includes first a detailed description of applications of physical techniques such as X ray fiber diffraction methods Chapter 1 2H and 13C NMR spectroscopy Chapter 2 and calorimetry Chapter 3 in the study of the properties of lipid model membranes A description of how to measure molecular mobility in membranes Chapter 4 follows and the book concludes with three chapters in which biological membranes are the subject of study Chapter 5 deals with the acetylcholine receptor and its membrane environment Chapter 6 discusses how fluorescence techniques can be applied in the study of the calcium ATPase of sarcoplasmic reticulum and Chapter 7 explains how protein lipid interactions modulate the function of the sodium and proton pumps

Physikalische Biochemie Theodor Ackermann, 2013-03-08 Im Rahmen des Studienganges Biochemie bildet das Fachgebiet Biophysikalische Chemie die Grundlage für das Verständnis des Zusammenwirkens molekularer Strukturen in physiologischen Prozessen Dieses Lehrbuch behandelt in konsequenter Darstellung die für das Verständnis der Struktur Funktionsbeziehungen von Biomolekülen wichtigen Themen Dabei wird die Erläuterung von Verfahren auf ein unerlässliches Minimum und auf Literaturhinweise beschränkt um die Diskussion der wissenschaftlichen Fragestellungen nicht mit methodischen Erörterungen zu belasten Das Buch schließt eine Lücke zwischen den auf Teilgebiete der physikalischen Chemie konzentrierten Kurztexten und den umfangreichen biophysikalischen Monographiensammlungen Es eignet sich damit besonders für Studierende der Naturwissenschaften in mittleren und höheren Semestern Kenntnisse der physikalischen Biochemie sind auch für wissenschaftlich tätige Biologen Mediziner Land und Forstwirte sowie Pharmazeuten wichtig

Bioelectrochemistry of Membranes Dieter Walz, Justin Teissié, Giulio Milazzo, 2012-12-06 Bioelectrochemistry of Membranes is the last volume in the book series Bioelectrochemistry Principles and Practice that provides a comprehensive compilation of physicochemical aspects of different biochemical and physiological processes This sixth volume introduces basic knowledge and important electrochemical and biophysical aspects of membrane potentials lipid bilayers and cell membranes The volumes of this book series serve as source books for advanced students and researchers at all levels of bioelectrochemistry

Human Physiology and Mechanisms of Disease Arthur C. Guyton, 1992 Intended for health science students and undergraduates this book covers the basic physiology of common human disorders Topics discussed

include motor control of the body the parathyroid hormone calcium and phosphate metabolism and electrocardiographs in the diagnosis of heart abnormalities

Membranology and Subcellular Organelles E. Edward Bittar,1992 Ever since its discovery in 1742 the carotid body has remained an organ of mystery Originally described as a ganglion it was subsequently regarded as a gland chromaffin paraganglion and non chromaffin paraganglion In 1928 it was shown to be a chemoreceptor with close associations with the function of baroreception in the adjacent carotid sinus and perhaps within its own substance These discoveries led physiologists to embark on a series of elegant experimental studies on a number of animal species which have however so far failed to identify the transducer for detection of changes in tension of arterial blood gases or the mechanism of chemoreception Pathologists on the other hand have largely ignored the carotid body restricting their interest to its tumour the chemodectoma A remarkable disparity in knowledge of the organ has resulted with most information being available on the physiology of chemoreceptor tissue in laboratory animals In contrast there has been sparse interest and awareness of the pathology in man of this nodule of tissue lying in the carotid bifurcation whose functional activity is suggested by the high blood flow it receives and its rich content of biogenic amines and a wide variety of peptides This book is an attempt to redress this unsatisfactory situation During the last few years our understanding of the detailed histology and ultrastructure of the human carotid body has improved

Textbook of Medical Physiology Arthur C. Guyton,1991 This textbook offers current authoritative coverage that is easy to read and understand It provides coverage of molecular and cellular physiology long term arterial pressure regulation and hypertension the neurophysiology of vision the body's resistance to infection and physiology from a quantitative perspective The new edition integrates the latest information throughout the text and helps students relate physiology to other aspects of medicine and analyze problems

Current Catalog ,1989 First multi year cumulation covers six years 1965-70

Structure and Functions of Biological Membranes, Molecular Aspects ,1978 Physiological Regulation of Membrane Fluidity Roland C. Aloia,Cyril C. Curtain,Larry M. Gordon,1988 Biomedical Index to PHS-supported Research ,1989 Subject Index of Current Research Grants and Contracts Administered by the National Heart, Lung and Blood Institute National Heart, Lung, and Blood Institute,1975

Molecular Design A.L. Horvath,1992-01-17 This book is a systematic presentation of the methods that have been developed for the interpretation of molecular modeling to the design of new chemicals The main feature of the compilation is the coordination of the various scientific disciplines required for the generation of new compounds The five chapters deal with such areas as structure and properties of organic compounds relationships between structure and properties and models for structure generation The subject is covered in sufficient depth to provide readers with the necessary background to understand the modeling techniques The book will be of value to chemists in industries involved in the manufacture of organic chemicals such as solvents refrigerants blood substitutes etc It also serves as a reference work

for researchers academics consultants and students interested in molecular design **Index of Conference Proceedings**
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American ,1878 **Biological Membranes** ,1988 **Biological Membranes** Dennis Chapman,Donald Francis Hoelzl
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This book delves into Physical Properties Of Biological Membranes And Their Functional Implications. Physical Properties Of Biological Membranes And Their Functional Implications is an essential topic that needs to be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Physical Properties Of Biological Membranes And Their Functional Implications, encompassing both the fundamentals and more intricate discussions.

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