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Society of General Physiologists

The Molecular Basis of Membrane Function Society of General Physiologists, 1969

Control of Membrane Function: short-term and long-term J.M. Ritchie, P. Magistretti, L. Bolis, 2012-12-02 A critical factor in cell-to-cell interactions is the presence in the cell membrane of highly specific ion channels controlled by specific receptors that are bound to, and activated by, a gamut of external hormones and neurotransmitters. Through both this action on ion channels, and action on other membrane components (such as G-proteins), extracellular signals alter intracellular events, usually through the mediation of second messengers, and so provide the basis for the transduction mechanism connecting extracellular signals with intracellular effectors. This volume deals with the various ways that such membrane function is controlled.

PreTest Key Concepts: Membrane function John R. Thornborough,1995

Membrane Function Douglas Sawyer,1995

The Structural Basis of Membrane Function Youssef Hatafi,2012-12-02 The Structural Basis of Membrane Function is a documentation of an international symposium of the same title. This book serves as a collection of the significant articles pertaining to the field of membrane research. It is composed of seven parts, where the first and last parts are articles contributed by scientific authorities. The book generally discusses the membrane research and this study's relevance to the society. Then, the book specifically looks into membrane features, including its structure, processes in it, functions, and types. Some of the specific topics included in the discussion of each part are phospholipases and monolayers used in studies of membrane structure; molecular aspects of active transport; and electron-transfer in energy-transducing membranes. The book also explains the two functions in common of biological membranes; synaptic receptor proteins; and liver microsomal membranes. The scope of this book is broad and helpful to many fields of science. It will be of great benefit to students, teachers, scientists, and researchers in the field of biochemistry, biology, molecular biology, chemistry, pharmacology, and cellular biology among others.

Biological Membranes Roger Harrison, 2013-11-22 to the Second Edition RESEARCH INTO MEMBRANE-ASSOCIATED PHENOMENA HAS EXPANDED VERY greatly in the five years that have elapsed since the first edition of Biological Membranes was published. It is to take account of rapid advances in the field that we have written the present edition. There

is now general acceptance of the fluid mosaic model of membrane structure and of the chemiosmotic interpretation of energetic processes, and our attention has shifted from justifying these ideas to explaining membrane functions in their terms. Much more information has become available concerning the role of the plasma membrane in the cell's recognition of and response to external signals, and this is reflected in the increased coverage of these topics in the book. The general form of the book remains the same. As before, a list of suggested reading, sub-divided by chapter, is provided and this has been expanded to include a greater proportion of original papers. The book is still primarily designed as an advanced undergraduate text and also to serve as an introduction for post-graduate workers entering the field of membrane research. We have taken cognizance of the comments of many reviewers, colleagues and students on the first edition and thank them for their contributions. In particular we wish to acknowledge our colleagues R. Eisenthal, G. D. Holman, D. W. Hough, and A. H. Rose. Dr. C. R.

Structure and Function of Biological Membranes Lawrence I. Rothfield, 2014-06-28 Structure and Function of Biological Membranes explains the membrane phenomena at the molecular level through the use of biochemical and biophysical approaches. The book is an in-depth study of the structure and function of membranes. It is divided into three main parts. The first part provides an overview of the study of the biological membrane at the molecular level. Part II focuses on the detailed description of the overall molecular organization of membranes. The third part covers the relationship of the molecular organization of membranes to specific membrane functions; discusses catalytic membrane proteins; presents the role of membranes in important cellular functions; and looks at the membrane systems in eukaryotic cells. Biochemists, cell physiologists, biologists, researchers, and graduate and postdoctoral students in the field of biology will find the text a good reference material.

The Molecular Basis of Membrane Function a Symposium (1968: North Carolina) Society of Ggeneral Physiologists,1969

The Membranes of Cells Philip Yeagle,1993 In this new edition of The Membranes of Cells, all of the chapters have been updated, some have been completely rewritten, and a new chapter on receptors has been added. The book has been designed to provide both the student and researcher with a synthesis of information from a number of scientific disciplines to create a comprehensive view of the structure and function of the membranes of cells. The topics are treated in sufficient depth to provide an entry point to the more detailed literature needed by the researcher. Key Features * Introduces biologists to membrane structure and physical chemistry * Introduces biophysicists to biological membrane function * Provides a comprehensive view of cell membranes to students, either as a necessary background for other specialized disciplines or as an entry into the field of biological membrane research * Clarifies ambiguities in the field

The structural Basis of membrane function .1976

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.

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Structure and Properties of Cell Membrane Structure and Properties of Cell Membranes Gheorghe Benga, 2018-01-18 This book provides in-depth presentations in membrane biology by specialists of international repute. The volumes examine world literature on recent advances in understanding the molecular structure and properties of membranes, the role they

play in cellular physiology and cell-cell interactions, and the alterations leading to abnormal cells. Illustrations, tables, and useful appendices com-plement the text. Those professionals actively working in the field of cell membrane investigations as well as biologists, biochemists, biophysicists, physicians, and academicians, will find this work beneficial.

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