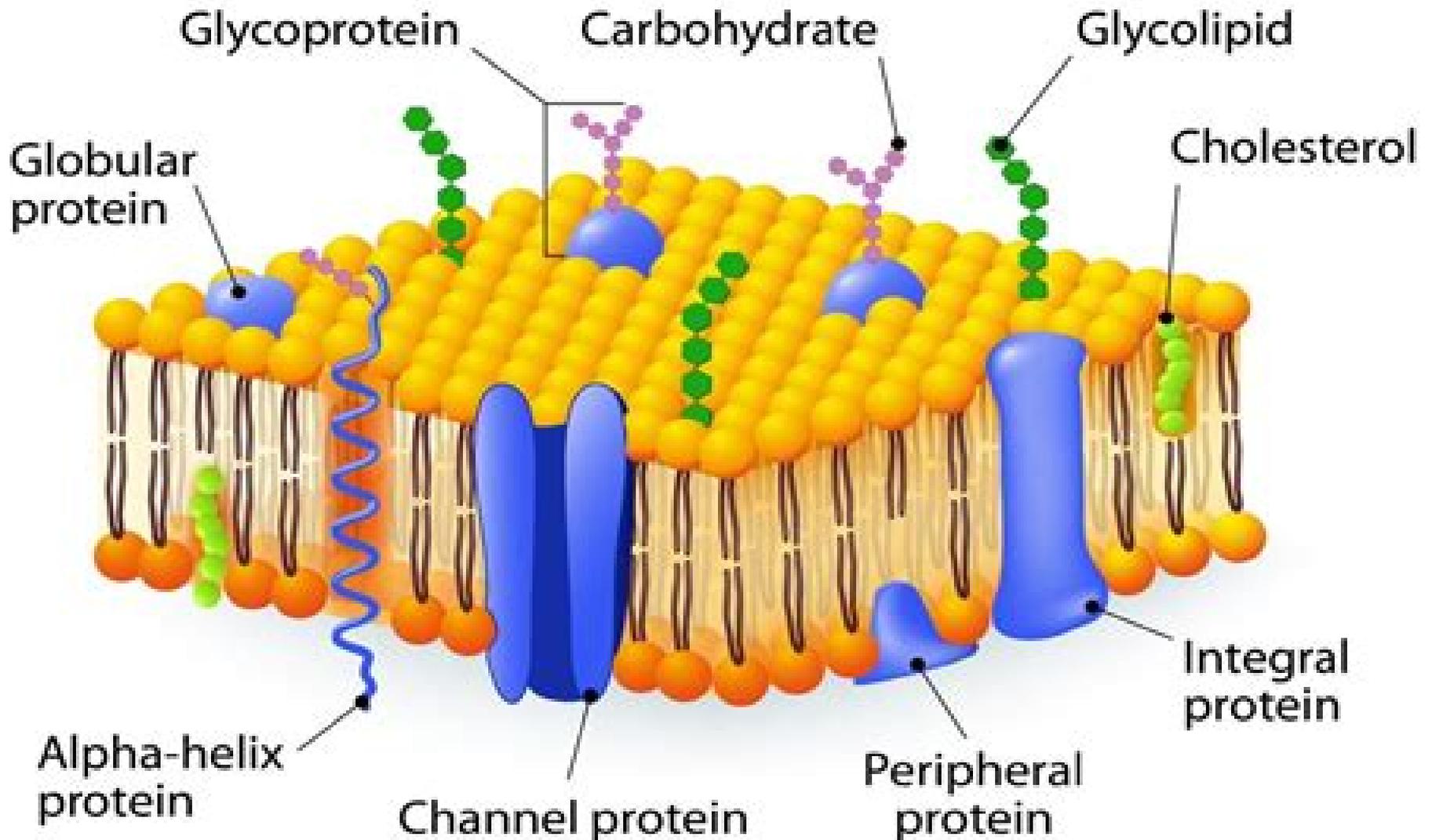


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Membrane Molecular Biology

Mathias Grote



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The Molecular Biology of Membranes S. Fleischer, 2012-12-06 On February 14 1977 a symposium entitled The Molecular Biology of Membranes was held in New Orleans in honor of Professor David E Green whose many contributions in mitochondrial structure and metabolism have influenced and guided research in this important area of biochemistry for many years The symposium was attended by many former and present day colleagues friends and interested scientists The contents of this volume represent papers that were delivered at the symposium and other contributions from individuals who have been associates of Professor Green We wish to thank Plenum Press for their help in making the symposium and publication of this book possible Sidney Fleischer Youssef Hatefi David MacLennan Alexander Tzagoloff vii Contents Impressions of David E Green by His Colleagues 1 Enzyme Institute Days 13 F M Huennekens Perspective for the Mitochondrion 17 David E Green Chapter 1 Organization of Protein and Lipid Components in Membranes 29 Garret Vanderkooz Chapter 2 Structure of the Mitochondrion 57 Robert A Haworth and Douglas R Hunter Chapter 3 Permeability of Membrane as a Factor Determining the Rate of Mitochondrial Respiration Role of Ultrastructure 75 Jerzy Popinigis Chapter 4 Chemistry of Intrinsic Membrane Protein Complexes Studies on Complex III and Cytochrome c Oxidase 103 Roderick A Capaldi ix x Contents Chapter 5 Reversible Mitochondrial ATPase as a Model for the Resolution of a 121 Membrane Complex A E

Membranes to Molecular Machines Mathias Grote, 2019-07-09 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

Membrane Processes G. Benga, H. Baum, F.A. Kummerow, 2012-12-06 The burgeoning interest in biomembranes in recent years has been such that membranology is now virtually a subject in its own right cutting vertically as it were through the strata of conventional disciplines from mathematics and physics through chemistry to biology The very scope of the topic is thus so daunting that it is tempting to treat it only at one stratum of this hierarchy be it the biophysics of phospholipid bilayers or the biochemistry of interactions at the cell surface Such an approach is entirely valid particularly among specialists with common interests However this approach does present a distorted perspective to the newcomer to the field and more significantly it fails to stimulate cross fertilization of ideas among workers at the various disciplinary levels For example as in all areas of molecular biology the clinicians are frequently unaware of the contributions to their problems that might be made by the application of more basic knowledge and techniques Conversely biochemists or biophysicists may be ignorant of the existing practical problems to which they might address their expertise

The Molecular Biology of Cell Membranes Peter J. Quinn, 1976 The purpose of this book is to give students and teachers a contemporary guide to the development in the structure and function of cell membranes

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

Membrane Molecular Biology Alec D. Keith, 1972 *The Plant Plasma Membrane*

Christer Larsson, Jan M. Møller, 2012-12-06 The plasma membrane forms the living barrier between the cell and its surroundings. For this reason it has a wide range of important functions related to the regulation of the composition of the cell interior and to communication with the cell exterior. The plasma membrane has therefore attracted a lot of research interest. Until the early 1970s it was only possible to study the plasma membrane *in situ*; its structure e.g. by electron microscopy and its function e.g. by uptake of radioactively labeled compounds into the intact cell or tissue. The first isolation of plant protoplasts by enzymatic digestion of the cell wall in the early 1970s was an important step forward in that it provided direct access to the outer surface of the plasma membrane. More importantly, T.K. Hodges and R.J. Leonard in 1972 published the description of a method by which a fraction enriched in plasma membranes could be isolated from plant tissues using sucrose gradient centrifugation. As a result, the 1970s saw a leap forward in our understanding of the structure and function of the plasma membrane. In 1981, S. Widell and C. Larsson published the first of a series of papers in which plasma membrane vesicles of high yield and purity were isolated from a wide range of plant tissues using aqueous polymer two phase partitioning.

The Membranes of Cells Philip L. Yeagle, 2016-02-17 The Membranes of Cells Third Edition provides a basic guide to biomembranes connecting researchers to the numerous fields of biology. The new edition offers a complete update of content based on new understandings in the field. Foundational content for graduate students, researchers, professors and undergraduate students across the sciences is provided succinctly covering all of the basic information needed for lipids and membranes. Connects membrane research to numerous fields of biology. Provides a basic guide to the interdisciplinary studies of membranes. Offers a companion website with recommended readings and dynamic visual representations of the content. Includes four color illustrations to offer the best visual representation of concepts.

Membrane Protein - Lipid Interactions: Physics and Chemistry in the Bilayer Jordi H. Borrell, Òscar Domènech, Kevin M.W. Keough, 2016-03-15 This book has been conceived as a brief introduction to biomembranes physical chemistry for undergraduate students of sciences and it is particularly dedicated to the lipid-protein-membrane interactions. A general introduction is presented in Chapters 1 and 2. The following Chapters 3 and 4 describe the most accepted theories on lipid-membrane-protein interactions as well as the new experimental approaches in particular these arose from nanosciences as atomic force microscopy and single molecule force spectroscopy. The book emphasizes the relevance of physical parameters as the lateral surface pressure and the lipid curvature as actors for understanding the physicochemical properties of the biomembranes.

Basement Membranes: Cell and Molecular Biology Nicholas Kefalides, Jacques Borel, 2005-10-24 Basement Membranes Cell and Molecular Biology brings together the most important research developments of the past 45 years that have enriched our knowledge and contributed to a better understanding of the biochemistry and cell and molecular biology of basement membranes. It describes the studies that shed light on the ultrastructural organization, the biosynthesis of the macromolecular components, their functions in embryonic development and differentiation and in the

mature state A major portion of the book is devoted to the description of the genes that regulate the expression of the various structural macromolecules Reviews the early years of research and the discovery of type IV collagen Presents the diversity of basement membrane morphology Discusses gene structure

Advances in Cell and Molecular Biology of Membranes and Organelles, 1994

Molecular Biology of Membrane Transport Disorders Stanley G. Schultz, 1996-06-30 The scope and depth of this book are excellent with in depth reviews that will be of benefit to both novice and expert alike An excellent text worthy of a place on any self respecting membranologists book shelf and I recommend it highly Trends in Biochemical Sciences Molecular Biology of Membrane Transport Disorders comprises the first compilation of papers on the important membrane transporters and ion channels with an emphasis on membrane transport disorders Internationally recognized leaders in the field provide a thorough understanding of the pathogenesis of clinical conditions that involve derangements in membrane transport processes at the molecular level This work is a valuable resource for medical and graduate students and researchers in the biomedical sciences as well as academic physicians in cardiology nephrology neurology and gastroenterology

Molecular Dynamics in Biological Membranes Milton H.Jr. Saier, Charles D. Stiles, 1975-12-22 There is something fascinating about science One gets such wholesale returns of conjecture out of such a trifling investment of fact Mark Twain The recent explosion in our knowledge of basic physiologic processes molecular biology and genetic regulatory mechanisms has resulted in large measure from a single conceptual advance the realization that at the molecular level evolutionarily divergent organisms are more similar than different Thus in *Escherichia coli* and *Homo sapiens* the enzymatic pathways for the utilization of galactose and glucose are the same although more than a single sequence of enzymatic reactions can lead to the utilization of either sugar Also extensive studies have revealed the essential of the genetic code the mechanism of decy universality ribonucleic acid DNA replication and the processes by which genetic information is transcribed to ribonucleic acid RNA and RNA is translated into protein A detailed comparative examination of anyone area of biologic interest of course reveals differences among phylogenetically distinct organisms In prokaryotic organisms protein synthesis is initiated with N formyl methionyl transfer RNA tRNA whereas methionyl tRNA serves this function in the cytoplasm of the eukaryote Mechanistic differences may have evolved to accommodate the differing degrees of complexity of cellular construction or to coordinate functions of differentiated cells in a multicellular organism Yet we must realize that the basic life endowing molecular processes had to exist prior to extensive evolutionary divergence before the appearance of two distinct cell types

Membrane Structural Biology Mary Luckey, 2014-02-24 An updated edition on membrane biology providing new high resolution structures of membrane proteins and insights into how they function

Bacterial Membranes Han Remaut, Rémi Fronzes, 2014 Membranes are pivotal components of life acting as formidable insulators that demarcate a living cell generate energy in the form of ion gradients transport ions proteins nucleic acids nutrients and metabolites and provide transduction systems to sense the environment and to communicate with other cells

Membranes also provide shape and structure to cells and are important in cell motility. In addition, they fulfill a scaffolding function for proteins and organelles that interact with the extracellular environment. Written by specialists in the field, this book provides a comprehensive overview of the structural and molecular biology of cellular processes that occur at or near bacterial membranes. The book presents and discusses recent progress on the function and involvement of membranes in bacterial physiology, enabling a greater understanding of the molecular details of the cell envelope, its biogenesis, and its function. The topics covered include cell wall growth, shape, and division; the outer membrane of Gram-negative bacteria; outer membrane protein biosynthesis; bacterial lipoproteins; mycobacteria lipid composition; ABC transporters; transport across the outer membrane; drug passage across membranes; bacterial membrane proteins; secretion systems; signal transduction; signalling mechanisms; bacterial membranes in adhesion and pathogenesis; membranes as a drug target. This cutting-edge text will provide a valuable resource for all those working in this field and is recommended for all microbiology libraries.

Membrane Spectroscopy E. Grell, 2012-12-06. The last 10 years have seen an enormous growth in our understanding of the molecular organization of biological membranes. Experimental methods have been devised to measure the translational and rotational mobility of lipids and proteins, thereby furnishing a quantitative basis for the concept of membrane fluidity. Likewise, the asymmetry of bilayer membranes, as evidenced by the asymmetric insertion of proteins and lipids, has been put on firm experimental ground. At higher molecular resolution, it has been possible to provide a detailed picture of the molecular conformation and dynamics of lipids and, to some extent, even of small peptides embedded in a bilayer matrix. Many of these achievements would not have been possible without the application of modern spectroscopic methods. Since these techniques are scattered in a variety of specialized textbooks, the present monograph attempts to describe the key spectroscopic methods employed in present-day membrane research at an intermediate level. There is no question that the elusive detailed structure of the biological membrane demands a multiplicity of experimental approaches and that no single spectroscopic method can cover the full range of physical phenomena encountered in a membrane. Much confusion in the literature has arisen by undue generalizations without considering the frequency range or other limitations of the methods employed. It is to be hoped that the present monograph, with its comprehensive description of most modern spectroscopic techniques, will contribute to

Membrane Molecular Biology Sinauer Associates, Incorporated, 1976 **The Molecular Biology of Membranes** S. Fleischer, 1978-08 [Molecular Biology of Membranes](#) H. R. Petty, 2014-01-15

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