

Bacterial And Eukaryotic Porins Structure Function Mechanism

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CABRERA KENNEDI

Endocytobiosis and Cell Research PUM

This book summarizes naturally occurring and designed bio-inspired molecular building blocks assembled into nanoscale structures. It covers a fascinating array of biomimetic and bioinspired materials, including inorganic nanozymes, structures formed by DNA origami, a wide range of peptide and protein-based nanomaterials, as well as their applications in diagnostics and therapeutics. The book elucidates the mechanism of assembly of these materials and characterisation of their mechanical and physico-chemical properties which inspires readers not only to exploit the potential applications of nanomaterials, but also to understand their potential risks and benefits. It will be of interest to a broad audience of students and researchers spanning the disciplines of biology, chemistry, engineering, materials science, and physics.

Porins of Lyme Disease and Relapsing Fever Spirochetes Springer Science & Business Media

International Review of Cytology presents current advances and comprehensive reviews in cell biology-both plant and animal. Articles address structure and control of gene expression, nucleocytoplasmic interactions, control of cell development and differentiation, and cell transformation and growth. Authored by some of the foremost scientists in the field, each volume provides up-to-date information and directions for future research.

Organellar RNA Polymerases of Higher Plants Eukaryotic Transmembrane Solution Transport Systems Neural Plasticity in the Adult Insect Brain

Passive Membrane Permeation Plasmodesmata and Cell-to-Cell Communication in Plants

Bacterial and Eukaryotic Porins Academic Press

Studies of the bacterial cell wall emerged as a new field of research in the early 1950s, and has flourished in a multitude of directions. This excellent book provides an integrated collection of contributions forming a fundamental reference for researchers and of general use to teachers, advanced students in the life sciences, and all scientists in bacterial cell wall research. Chapters include topics such as: Peptidoglycan, an essential constituent of bacterial endospores; Teichoic and teichuronic acids, lipoteichoic acids, lipoglycans, neural complex polysaccharides and several specialized proteins are frequently unique wall-associated components of Gram-positive bacteria; Bacterial cells evolving signal transduction pathways; Underlying mechanisms of bacterial resistance to antibiotics.

Transport Processes in Eukaryotic and Prokaryotic Organisms Academic Press

'Developmental biology' is widely understood as processes, which mainly concern embryonic animal development and differentiation of cells and tissue. It is also often defined as the timeline for the evolutionary developmental biology of eukaryotic multicellular higher organisms, i.e., plants and animals. The development of prokaryotes and lower eukaryotes in contrary has been neglected for a long time, which was the motivation for publishing this book. This book highlights one of Darwin's most important findings: Evolution is a creative, but not a conscious process. It also illustrates that this concept does not only apply to multicellular higher organisms, but affects every form of life. The reader shall find complex biochemical and genetic pathways of bacteria, yeasts or protozoa, comparable to those exhibited by plants or animals. The molecular mechanisms of dramatic genome rearrangements, recombination and horizontal gene transfer that are responsible for evolutionary adaptations are discussed. Additionally, the book covers bacteria of the genera Myxobacteriales and Caulobacteriales, which are able to develop tissue-like cellular organization. The morphogenesis of entomopathogenic fungi and the endosymbiont theory are also addressed. The book is a useful introduction to the field for junior scientists, interested in bacteriology, protistology and fungal development. It is also an interesting read for advanced scientists, giving them a broader view of the field beyond their area of specialization.

Membrane Proteins Springer

This book provides a comprehensive overview of the basic principles, concepts, techniques and latest advances in the field of biomembranes and membrane-associated processes. With new emerging technologies and bioinformatics tools, this is a promising area for future study and research. The book discusses the composition, fluidity and dynamic nature of phospholipid bilayers, which vary with cell/organelle type and function. It describes the various types of transport proteins that facilitate the transport of polar and nonpolar molecules across the membrane actively or passively via ion-channels or through porins. It also explores the many cellular functions membranes participate in: (1) energy transduction, which includes the electron transport chain in inner membrane of mitochondria and bacterial cytoplasmic membrane and photosynthetic electron transport in thylakoid membranes in chloroplast and photosynthetic bacterial membranes; (2) cell-cell communication involving various signal transduction pathways triggered by activated membrane receptors; (3) cell-cell interactions involving various types of adhesion and receptor proteins; (4) nerve transmission involving opening and closing of voltage gated ionic channels; and (5) intracellular transport involving the processes of endocytosis, exocytosis, vesicular transport of solutes between intracellular compartments, membrane fusion and membrane biogenesis.

The Pathogenic Yersiniae - Advances in the Understanding of Physiology and Virulence, Volume II Cambridge University Press

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

Metabolism and Bacterial Pathogenesis Springer

This book is dedicated to the channels and pores that belong to an eclectic and ubiquitous class of unconventional - perhaps at times strange - pore-forming molecules, which nevertheless play fundamental roles in various organisms. These non-canonical channels may take on various and sometimes complex architectures, such as large beta-barrels or lipid-containing pores. They may originate from bacteria, viruses or intracellular organelles. For some of them, the physiologically relevant substrate may indeed be ions, and for others folded polypeptides. Some are released by cells in a soluble form that has the ability to insert into biological membranes to exert its permeabilizing effect. Many of these unconventional pores have been investigated by electrophysiology, which, by its virtue of focusing on a few or even a single unit, has provided invaluable insight into the mechanisms and structure-function relationships of these remarkable membrane entities. The chapters of this book highlight a representative set of these interesting investigations.

Bacterial Physiology and Metabolism Humana

In this first integrated view, practically each of the world's leading experts has contributed to this one and only authoritative resource on the topic. Bringing systems biology to cellular energetics, they address in detail such novel concepts as metabolite channeling and medical aspects of metabolic syndrome and cancer.

Histidine Kinases in Signal Transduction Cambridge University Press

In recent years it has become evident that transport processes across membranes play a crucial role in many metabolic systems. The activities of these transport processes often determine the physiology of the organisms. This book presents a state of the art review on the analysis of a wide variety of transport systems from bacteria and eukaryotic cells. A selection has been made of those systems that have been studied at the molecular level with special emphasis paid to the energetic and other biophysical properties. The different classes of transport systems are presented in the following: primary transport, secondary transport, phosphotransferase systems, channels and porines and macromolecular transport. Within each class of transporters several systems are presented by the leading experts in the field, which has resulted in a very broad overview of transport processes in biological cells. In this way the differences in the mechanisms used for translocation become evident while on the other hand features common to the different transport systems are revealed.

Desk Encyclopedia of Microbiology John Wiley & Sons

Membrane Proteins, Volume 128 in the Advances in Protein Chemistry and Structural Biology series highlights new advances in the field, with this new volume presenting interesting chapters written by an international board of authors. Provides the authority and expertise of leading contributors from an international board of authors Presents the latest release in the Advances in Protein Chemistry and Structural Biology series Updated release includes the latest information on the membrane proteins

Thirty Years of Progress in Mitochondrial Bioenergetics and Molecular Biology Bentham Science Publishers

The Desk Encyclopedia of Microbiology, Second Edition is a single-volume comprehensive guide to microbiology for the advanced reader. Derived from the six volume e-only Encyclopedia of Microbiology, Third Edition, it bridges the gap between introductory texts and specialized reviews. Covering topics ranging from the basic science of microbiology to the current "hot" topics in the field, it will be invaluable for obtaining background information on a broad range of microbiological topics, preparing lectures and preparing grant applications and reports. * The most comprehensive single-volume source providing an overview of microbiology to non-specialists * Bridges the gap between introductory texts and specialized reviews. * Provides concise and general overviews of important topics within the field making it a helpful resource when preparing for lectures, writing reports,

or drafting grant applications

International Review of Cytology IOS Press

Pathogenic *Yersinia* consist of the prominent human pathogens *Y. pestis*, *Y. enterocolitica*, and *Y. pseudotuberculosis*, the fish pathogen *Y. ruckeri*, as well as a number of insect pathogens. Facilitated by the ease of in vitro culturing, genetic tractability, and availability of relevant infection models, studies of pathogenic *Yersinia* have revealed a great deal about physiological processes at the molecular level that contribute to pathogen adaptation to the ever changing environments both inside and outside of the host. Comprehensive genome sequencing analyses has further benefitted understanding of this bacterial pathogen evolution. Critically, many of these detailed molecular studies also identified potential targets for the design and development of anti-bacterial therapeutic drugs that could help to fight the ever-increasing problem of resistance to conventional antibiotics. New developments in several of these areas are highlighted in this edition of the Research Topic "The Pathogenic *Yersinia* - Advances in the Understanding of Physiology and Virulence, Second Edition".

Metal Transporters Elsevier

This volume of Current Topics in Membranes focuses on metal transmembrane transporters and pumps, a recently discovered family of membrane proteins with many important roles in the physiology of living organisms. The book summarizes the most recent advances in the field of metal ion transport and provides a broad overview of the major classes of transporters involved in homeostasis of heavy metals. Various families of the transporters and metal specificities are discussed with the focus on the structural and mechanistic aspects of their function and regulation. The reader will access information obtained through a variety of approaches ranging from X-ray crystallography to cell biology and bioinformatics, which have been applied to transporters identified in diverse biological systems, such as pathogenic bacteria, plants, humans and others. Field is cutting-edge and a lot of the information is new to research community Wide breadth of topic coverage Contributors of high renown and expertise

Membrane Protein Structure Frontiers Media SA

This textbook provides a strong foundation and a clear overview for students of membrane biology and an invaluable synthesis of cutting-edge research for working scientists. The text retains its clear and engaging style, providing a solid background in membrane biochemistry, while also incorporating the approaches of biophysics, genetics and cell biology to investigations of membrane structure, function and biogenesis to provide a unique overview of this fast-moving field. A wealth of new high resolution structures of membrane proteins are presented, including the Na/K pump and a receptor-G protein complex, offering exciting insights into how they function. All key tools of current membrane research are described, including detergents and model systems, bioinformatics, protein-folding methodology, crystallography and diffraction, and molecular modeling. This comprehensive and up-to-date text, emphasising the correlations between membrane research and human health, provides a solid foundation for all those working in this field.

Advances in Protein and Peptide Sciences Newnes

This book represents proceedings of the 19th American Peptide Symposium. It highlights many of the recent developments in peptide science, with a particular emphasis on how these advances are being applied to basic problems in biology and medicine. Specific topics covered include novel synthetic strategies, peptides in biological signaling, post-translational modifications of peptides and proteins, and peptide quaternary structure in material science and disease.

Molecular System Bioenergetics R. G. Landes

This volume of Current Topics in Membranes focuses on Membrane Protein Crystallization, beginning with a review of past successes and general trends, then further discussing challenges of membranes protein crystallization, cell free production of membrane proteins and novel lipids for

membrane protein crystallization. This publication also includes tools to enhance membrane protein crystallization, technique advancements, and crystallization strategies used for photosystem I and its complexes, establishing Membrane Protein Crystallization as a needed, practical reference for researchers.

Membrane Protein Assembly Garland Science

Advances in Protein and Peptide Sciences is a book series focused on leading-edge research on the structure, physical properties, and functions of proteins and peptides. The series presents highly cited contributions first published in the journal Current Protein and Peptide Science. Authors of these contributions have updated their work with new experimental data and references following their initial research. Each volume highlights a number of important topics in current research in the field of protein and peptide chemistry and molecular biology, including membrane proteins and their interactions with ligands, computational methods, and proteins in disease and biotechnology.

Developmental Biology in Prokaryotes and Lower Eukaryotes Springer Nature

This eBook is a collection of articles from a Frontiers Research Topic. Frontiers Research Topics are very popular trademarks of the Frontiers Journals Series: they are collections of at least ten articles, all centered on a particular subject. With their unique mix of varied contributions from Original Research to Review Articles, Frontiers Research Topics unify the most influential researchers, the latest key findings and historical advances in a hot research area! Find out more on how to host your own Frontiers Research Topic or contribute to one as an author by contacting the Frontiers Editorial Office: frontiersin.org/about/contact.

Understanding Biology Using Peptides Frontiers Media SA

Get the most from your study time, and experience a realistic USMLE simulation with Rapid Review Microbiology and Immunology, 3rd Edition, by Drs. Ken S. Rosenthal and Michael J. Tan. This new reference in the highly rated Rapid Review Series is formatted as a bulleted outline with photographs, tables and figures that address all the microbiology and immunology information you need to know for the USMLE. And with Student Consult functionality, you can become familiar with the look and feel of the actual exam by taking a timed or a practice test online that includes 400 USMLE-style questions. Access all the information you need to know quickly and easily with a user-friendly, two-color outline format that includes High-Yield Margin Notes. Take a timed or a practice test online with more than 400 USMLE-style questions and full rationales for why every possible answer is right or wrong. Review the most current information with completely updated chapters, images, and questions, including a new chapter on Laboratory Tests for Diagnosis. Profit from the guidance of series editor, Dr. Edward Goljan, a well-known author of medical study references, who is personally involved in content review. Study and take notes more easily with the new, larger page size. Practice with a new testing platform on USMLE Consult that gives you a realistic review experience and fully prepares you for the exam. Review your understanding of how to interpret lab results in a new chapter on Laboratory Tests for Diagnosis.

Biological and Bio-inspired Nanomaterials Academic Press

This book provides an up-to-date overview of the architecture and biosynthesis of bacterial and archaeal cell walls, highlighting the evolution-based similarities in, but also the intriguing differences between the cell walls of Gram-negative bacteria, the Firmicutes and Actinobacteria, and the Archaea. The recent major advances in this field, which have brought to light many new structural and functional details, are presented and discussed. Over the past five years, a number of novel systems, e.g. for lipid, porin and lipopolysaccharide biosynthesis have been described. In addition, new structural achievements with periplasmic chaperones have been made, all of which have revealed amazing details on how bacterial cell walls are synthesized. These findings provide an essential basis for future research, e.g. the development of new antibiotics. The book's content is the logical continuation of Volume 84 of SCBI (on Prokaryotic Cytoskeletons), and sets the stage for upcoming volumes on Protein Complexes.