

BACTERIAL OUTER MEMBRANES

Biogenesis and Functions

EDITED BY
MASAYORI INOUE



Bacterial Outer Membranes Biogenesis And Functions

Joacim Rocklöv



Bacterial Outer Membranes Biogenesis And Functions:

Bacterial Outer Membranes Masayori Inouye, 1979 *Bacterial Outer Membranes as Model Systems* Masayori Inouye, 1987 Geared to an understanding of how pathogenic bacteria interact with animal tissues this text examines the structure and function of bacterial outer membranes and uses them as model systems for studying various aspects of cell biology and molecular biology mechanisms of cell to cell interaction functions of membrane proteins molecular mechanisms of protein secretion across membranes and more Over 60 tables and figures are featured *Bacterial Membrane Vesicles* Maria Kaparakis-Liaskos, Thomas A. Kufer, 2020-03-31 This book focuses on the multitude of functions bacterial membrane vesicles perform in bacterial ecology and pathogenesis as well as in emerging medical and biotechnological applications Both Gram negative and Gram positive bacteria produce membrane bound nanostructures known as membrane vesicles which have a range of functions that include serving as delivery vehicles providing a means of communication over both spatial and temporal scales and contributing to bacterial survival and evolution Topics covered in this book range from the biogenesis and composition of bacterial membrane vesicles to their abundance and biological roles in microbial ecosystems such as marine environments In the individual chapters the involvement of bacterial membrane vesicles in host pathogen interactions promoting virulence and in facilitating the establishment of infection is explained In addition current knowledge regarding membrane vesicles produced by commensal bacteria and their role in the maturation of the host immune system as well as the therapeutic potential of bacterial membrane vesicles as delivery systems and innovative nanotechnology based therapeutics are discussed This work appeals to a wide readership of students and researchers interested in microbial ecology mechanism underlying pathogenesis and new avenues in applied microbiology and nanotechnology **The Enzymes of Biological Membranes** Anthony Martonosi, 2012-12-06 In the first edition of *The Enzymes of Biological Membranes* published in four volumes in 1976 we collected the mass of widely scattered information on membrane linked enzymes and metabolic processes up to about 1975 This was a period of transition from the romantic phase of membrane biochemistry preoccupied with conceptual developments and the general properties of membranes to an era of mounting interest in the specific properties of membrane linked enzymes analyzed from the viewpoints of modern enzymology The level of sophistication in various areas of membrane research varied widely the structures of cytochrome c and cytochrome b were known to atomic detail while the majority of membrane linked enzymes had not even been isolated In the intervening eight years our knowledge of membrane linked enzymes expanded beyond the wildest expectations The purpose of the second edition of *The Enzymes of Biological Membranes* is to record these developments The first volume describes the physical and chemical techniques used in the analysis of the structure and dynamics of biological membranes In the second volume the enzymes and metabolic systems that participate in the biosynthesis of cell and membrane components are discussed The third and fourth volumes review recent developments in active transport oxidative phosphorylation and photosynthesis

Bacterial Pathogenesis Pontus Nordenfelt, Mattias Collin, 2023-05-31 This detailed volume presents a diverse set of methodological approaches designed to improve our understanding of bacterial infections from a wide range of bacterial species Beginning with biofilms and subcellular compartments the book explores transcriptional analysis methods for studying plasmid dynamics and tools for phylogenetic analysis of bacterial genomes as well as bacterial effector proteins interfering with host systems host response analysis and in vivo and in vitro infection models Written for the highly successful Methods in Molecular Biology series chapters include introductions to their respective topics lists of the necessary materials and reagents step by step and readily reproducible laboratory protocols and tips on troubleshooting and avoiding known pitfalls Authoritative and up to date Bacterial Pathogenesis Methods and Protocols Second Edition is a vital resource for researchers in the area of infection biology as well as but not limited to those working in the fields of microbiology immunology structural biology molecular biology genetics imaging and computational study *Bacterial Growth and Lysis* M.A. de Pedro, J.V. Høltje, Wolfgang Löffelhardt, 2013-11-11 This volume is based on a FEMS Symposium entitled Bacterial Growth and Lysis Metabolism and Structure of the Bacterial Sacculus held at the Monastery of Lluc Mallorca Spain on 5-10 April 1992 The goals of the symposium were to assess the present state of knowledge on the structure and physiology of the bacterial murein sacculus and to develop new hypotheses and strategies to promote further development of the field Consequently the contributions compiled in this volume include broadly different approaches from the introduction of new analytical methods to the presentation of provocative models for cell wall growth and division Structural biochemical and genetic aspects are widely covered with special emphasis on the enzymology and regulation of murein hydrolases autolysins Comprehensive reviews on bacterial S layers and yeast cell walls are included to stimulate conceptual cross feeding with these closely related topics We believe that this book will provide the reader with a useful and up to date review of the topic We would feel deeply rewarded by any positive influence this book may have on the future progress of the field whereby all the scientific credit for it should be given to the authors of the excellent contributions presented *Immunobiology and Immunopharmacology of Bacterial Endotoxins* A. Szentivanyi, Herman Friedman, 2013-03-13 Endotoxins are constituents of all gram negative bacteria as well as many other microorganisms Since their original discovery and study at the beginning and middle parts of this century many investigations have been performed concerning their immunochemistry and physicochemistry as well as their pharmacologic activities and physiologic effects on the host It became widely recognized during the beginning of this century that the pyrogenicity of many microbial infections may be associated with endotoxins Furthermore some 80 years ago attempts were begun to treat a variety of illnesses including neoplasia with such pyrogens Le bacterial endotoxins Inconclusive results were observed including some detrimental ones as well as in some cases beneficial ones It became widely accepted that during infections with many gram negative organisms the fever occurring in patients as well as many of the untoward pathophysiological effects of the infections seemed to be due to the endotoxin the

bacteria contained or released In this regard septic shock has been studied in detail by many clinicians physiologists and pharmacologists and attempts have been made to relate the devastating effects of infection on metabolic and physiologic alterations caused by endotoxins Recently however many beneficial effects of endotoxin have also been studied Current Topics in Membranes and Transport ,1982-06-24 **Current Topics in Membranes and Transport** **Gene Function** Robert E. Glass,2012-12-06 My aim in writing **Gene Function** has been to present an up to date picture of the molecular biology of *Escherichia coli* I have not attempted a chronological description believing that a mechanistic account is more useful for such a highly developed field I have divided the book into four parts Part I is a general introduction to bacterial systems their genetic material structure composition and growth It has seemed desirable to include herein a brief preview of the remaining text to introduce the nomenclature and to help place subsequent chapters in perspective The expression of genetic material and its perturbation through mutation is considered in Part II Part III discusses how the transfer of prokaryotic genetic material can be mediated by plasmids and bacteriophages It describes the DNA transactions involved replication recombination and repair and ends with a description of the genetic and biochemical techniques employed in the study of gene organisation Finally Part IV considers the control of expression of bacterial plasmid and phage genes Key reviews are listed at the end of each chapter Bacterial Extracellular Vesicles Steven Jay,Nicholas Piroli,2024-08-14 This volume details procedures relevant to all disciplines with specific emphasis on challenging aspects of working with Bacterial Extracellular Vesicle BEVs Chapters are divided into four parts focusing on characterization of Bacterial Extracellular Vesicles assessment of Bacterial Extracellular Vesicle Biological Function In Vitro preparation and functionalization of therapeutic Bacterial Extracellular Vesicles and delivery and tracking of Bacterial Extracellular Vesicles In Vivo Written in the highly successful *Methods in Molecular Biology* series format chapters include introductions to their respective topics lists of the necessary materials and reagents step by step readily reproducible laboratory protocols and tips on troubleshooting and avoiding known pitfalls Authoritative and cutting edge **Bacterial Extracellular Vesicles Methods and Protocols** aims to ensure successful results in the further study of this vital field **Acidophile Microbiology: From Extreme Environments to Biotechnological Applications** Elizabeth Watkin,Ivan Nancucheo ,Axel Schippers,2024-07-22 Acidophiles are microorganisms that thrive in acidic environments and these microorganisms can be found in a wide range of habitats including acid mine drainage volcanic hot springs and acidic soils Despite the extreme conditions they live in acidophiles have adapted unique biochemical pathways and mechanisms to survive and thrive in such harsh environments This Research Topic aims to bring together recent advances in the field of acidophile microbiology from fundamental research on microbial diversity physiology and ecology in extreme environments to biotechnological applications including bioleaching and bioremediation **Organization of Prokaryotic Cell Membranes** Bijan K. Ghosh,2018-01-18 These volumes include a collection of authoritative articles covering the most active areas of prokaryotic biomembrane

investigations and will provide a great service not only to those interested in the field but also to microbiologists in general. These monographs will also serve to focus attention on prokaryotic membranes that are so often ignored by eukaryotic membraneologists and proved an excellent reference source for many years to come. *Bacterial Growth and Form* A.L. Koch, 2012-12-06 Based on the author's more than 40 years experience *Bacterial Growth and Form* examines such important questions as what bacteria were, what they are, and what they do. Particular emphasis is placed on the ability of bacteria to establish their shapes as they grow and divide. By developing an understanding of the properties of these simple and early life forms especially at the levels of physics and mathematics, the book provides insight into the mechanism used by bacteria to subvert physical forces to their own ends. A major consideration of this work is that prokaryotes do many of the same things that eukaryotes do but with simpler equipment employed in an extremely sophisticated way. The book illustrates this point by closely examining the basic mechanism of hydrostatic or turgor pressure, how it functions for many of the mechanical purposes in the prokaryote, how it leads to mechanisms for resisting turgor pressure, and how it ultimately led to the development of exoskeletons and endoskeletons and to the refinement of bacteria. *Bacterial Growth and Form* brings together biochemical, biophysical, and physiological principles in an authoritative single source volume. It provides researchers and students in biophysics and microbiology with an indispensable reference and a new perspective into the biology of life. *Fluorescence Studies on Biological Membranes* Herwig J. Hilderson, 2012-12-06 As stated by its first editor Dr. D. B. Roodyn, the primary goal of the series *Subcellular Biochemistry* is to achieve an integrated view of the cell by bringing together results from a wide range of different techniques and disciplines. This volume deals with the applications of fluorescence spectroscopy to membrane research. It seeks to present complementary biochemical and biophysical data on both the structure and the dynamics of biological membranes. Biophysics and biochemistry are improving more and more in their ability to study biomembranes, overlapping somewhat in this area and explaining the functioning of the whole cell in terms of the properties of its individual components. Therefore, we have brought together an international group of experts in order to report on and review advances in fluorescence studies on biological membranes, thereby highlighting subcellular aspects. The first chapters present a critical evaluation of the current applications of dynamic and steady state fluorescence techniques. Subsequent chapters discuss more specific applications in cells, biological membranes, and their constituents: lipids, proteins. *Concepts in Bacterial Virulence* Wayne Russell, Heiko Herwald, 2005-01-01 Over the past few decades, the increase in bacterial resistance has led to the search for novel antibacterial therapies and a better understanding of virulence mechanisms used by pathogens. It has been shown that the interplay between pathogenic bacteria and the host is complex and finely balanced. Successful pathogens can manipulate host homeostasis and normal cell functions using a variety of molecular strategies. This volume of the Karger book series *Contributions to Microbiology* summarizes some of the most important bacterial virulence mechanisms. Eminent scientists provide an update on recent findings in their fields. This state of

the art account will not only attract the interest of clinical and preclinical researchers but will also be of great value to students with an interest in medicine biology chemistry and infectious diseases

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Bacterial Regulatory RNA Véronique Arluison,Claudio Valverde,2024-01-13 This second edition details new and updated methods used for studying prokaryotic non coding RNAs and their protein accomplices Chapters detail discovery of ncRNAs characterization of their structure functions and their interactomes Written in the highly successful Methods in Molecular Biology series format chapters include introductions to their respective topics lists of the necessary materials and reagents step by step readily reproducible laboratory protocols and tips on troubleshooting and avoiding known pitfalls Authoritative and cutting edge Bacterial Regulatory RNA Methods and Protocols Second Edition aims to

ensure successful results in the further study of this vital field

Bacteria in Nature Edward R. Leadbetter, Jeanne S. Poindexter, 2013-11-11 The value of studies of monotypic populations is constantly argued in bacterial ecology The controversy itself is evidence of the strong awareness that bacterial activities in natural sites are not determined by the bacteria alone At the same time the best evidence that bacteria are influenced by environmental factors is the contrast between their behavior in laboratory cultures and their relatively subdued influence when in the presence of competitors predators and fluctuating often stressful environmental conditions Monotypic populations are admittedly reductionist but are not therefore irrelevant to bacterial ecology Quite the contrary Without pure culture studies our understanding of important and applicable bacterial activities N fixation for example would still be limited to what we could discern from a comparison of events in steamed vis a vis un heated soil As was evident throughout the previous volume in this treatise practically any method of studying natural bacterial communities upsets them while permitting only limited assessment of the respective qualities and quantitative contributions to total community activity of each type of bacterium present Total activity itself is difficult to assess and is not dependably accomplished by any single method This third volume comprises information regarding the properties of bacteria as they have been learned largely from pure culture studies Its purpose is twofold to provide readers with fundamental information regarding the cellular organization physiological capabilities and genetic systems of bacteria and to connect known bacterial properties with environmental influences on them and with their influences on natural processes

Bacteria and Complement Michael Loos, 2013-11-11 Deficiencies in any of the defense mechanisms of the host can lead to severe microbial infections these are of clinical relevance Broad up to date knowledge in this field allows identification of many unspecific as well as highly specific defense reactions involved in the struggle against infectious diseases On the other hand protective structures on the microbial cell surfaces have been adapted and improve the counterpart's chances of survival In particular it has been considered that the great diversity of the bacterial envelopes not only determines the anatomical location of the tissue injury but also induces activation of distinct parts of the complex defense system The specific defense mechanism whose most prominent constituent is provided by the antibo

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