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S. N. Chatterjee · Keya Chaudhuri

Outer Membrane Vesicles of Bacteria



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Outer Membrane Vesicles of Bacteria S.N. Chatterjee, Keya Chaudhuri, 2012-08-01 This book provides a detailed account of the physico chemical properties and biological functions of the outer membrane vesicles OMVs of different pathogenic and non pathogenic Gram negative bacteria It also includes an authentic record of the first systematic study that discovered the mechanism of OMV formation by a pathogen *Vibrio cholerae* and proposed that the process represented a novel secretory activity of bacteria Furthermore the authors present clinical and laboratory data on the use of OMVs as immunogens as effective and licensed vaccines against *Neisseria meningitidis* serogroup B infections and on the development of more effective vaccines against other human and animal pathogens including *Vibrio cholerae* This volume thus bears witness to the emerging revolution in the field of vaccines against pathogens and closes with a discussion of open questions and future research on OMVs

Nanomicrobiology Larry L. Barton, Dennis A. Bazylinski, Huifang Xu, 2014-11-05 This book is devoted to nanomicrobiology and the nanosystems of bacteria The initial chapter discusses some of the controversies in the geochemical and biomedical fields associated with the reports of nanobacteria in the environment Current knowledge of several internal and surface structures of bacteria is addressed in this book Included are chapters discussing carboxysomes S layers gliding motility of bacteria and aggregation of iron to produce nano magnetite Information about the activities of outer membrane vesicles produced by Gram negative bacteria is discussed as a benefit to bacteria that produce it and some potential industrial applications are presented A broad review of bacterial mineral interactions is addressed in a chapter of metallic nanoparticles and colloids production by bacterial reduction of soluble redox active elements The structures of bacterial nanowires are discussed and their application in extra cellular electron transport is reviewed Nanomotor activities of bacteria are discussed as pertains to the mechanics of flagellar rotation production of energy by ATP synthase DNA packing and translocation of proteins across membranes by secretion systems The rapidly evolving field of nanosystem technology is embracing many areas and it is the hope that this book will stimulate the use of bacterial nanostructures for future developments in nanotechnology

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 Bacterial Membrane Vesicles ,2020 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 Bacterial Extracellular Vesicles Steven Jay,Nicholas Pirolli,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 Probing the Molecular Level Details of Bacterial Outer Membrane Vesicles and Their Parent Bacteria Damien Francis Jefferies,2019 **Impact of Bacterial Outer Membrane Vesicles on Antibiotic Resistance** Marie Burt,2024 **What is known and What Remains to Be Discovered About Bacterial Outer Membrane Vesicles, Volume II** Araceli Contreras-Rodriguez,Rafael A. Garduno,Alejandro J. Yañez,2022-11-11 Bacterial Outer Membrane Vesicles ,2013 **Microbial Cell Walls and Membranes** H. R. Perkins,2012-12-06 In 1968 when Cell Walls and Membranes was published it was still reasonable to attempt to write a book covering the whole subject Accordingly this edition of the book had something to say about walls

from micro organisms and plants as well as about membranes from bacteria and animal cells A decade later this is manifestly impossible Knowledge about almost all the subjects has grown explosively particularly about membranes and the biosynthesis of macromolecules Moreover aspects of the subject that were still in a relatively primitive state ten years ago have grown into highly sophisticated subjects worthy of extended treatment The result is that the present book has had to be confined to structures and functions relating to only one division of the biological kingdom namely micro organisms Even then severe limitations have had to be made to keep the task within the time available to the authors and their expertise A few of the titles of chapters such as those on the isolation of walls and membranes the structure of the components of bacterial and micro fungal walls and their biosynthesis remain from the earlier book These chapters have been almost completely rewritten and a number of quite new chapters added on topics such as the action of the antibiotics that inhibit bacterial wall synthesis on the function of bacterial membranes and the bacterial autolysins **What Is known and What**

Remains To Be Discovered About Bacterial Outer Membrane Vesicles Araceli Contreras-Rodriguez,Rafael A.

Garduno,Alejandro J. Yañez,2022-08-19 Outer Membrane Vesicle-mediated Export of Virulence Factors from

Gram-negative Bacteria ,2012

Influence of Bacterial Outer Membrane Vesicles on Struvite Crystal Growth Ashley

Shanaé Summers,2018

Bacterial Cell Walls and Membranes Andreas Kuhn,2019-06-28

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 **Extracellular**

Vesicles in Human Health and Diseases Asit Ranjan Ghosh,2024-08-01 This book reviews the physiological and therapeutic applications of extracellular vesicles EV of different cell types The initial chapter of the book focuses on their evolution physiological functions inter and intra cellular communication and their strategic applications in defining different health disorders including aging pathogenicity toxicity and drug delivery The chapter also provides an overview of recent technologies for EV isolation analysis and quantification The chapter also examines the role of EVs in viral and bacterial pathogenesis and discusses the emerging potential of EVs as diagnostic and therapeutic tools It also discusses the emerging role of EVs including endosome derived exosomes and fragments of the cellular plasma membrane in intercellular communication by transporting messenger RNA microRNA miRNA and proteins The book further explores the potential of

membrane vesicles in the prevention diagnosis and treatment of inflammatory diseases metabolic disorders cardiovascular diseases and neurodegenerative disorders This book address researchers clinicians and doctoral and graduate students working in cellular molecular biology cancer biology infectious diseases molecular medicine biomedicine neurobiology microbiology and translational medicine Transport of Molecules Across Microbial Membranes J. K. Broome-Smith, Society for General Microbiology. Symposium, 1999-10-14 An up to date review of an important area in microbiology

Lipopolysaccharide Composition Determines the Entry Kinetics of Bacterial Outer Membrane Vesicles Into Host Cells Eloise Jasmin O'Donoghue, 2018 Outer membrane vesicles OMVs are nanosized proteoliposomes ubiquitously released from the outer membrane of Gram negative bacteria and are known to contribute to immune priming and disease pathogenesis However the current understanding of their interactions with host cells is limited by a lack of methods to study the rapid kinetics of vesicle entry and cargo delivery This work has developed a highly sensitive method to study vesicle entry into host cells in real time using a genetically encoded vesicle targeted probe Using this approach it was found that the route of vesicular uptake and thus entry kinetics and efficiency are shaped by bacterial cell wall composition The presence of O polysaccharide in lipopolysaccharide creates a bias towards non receptor mediated endocytosis which enhances both the rate and efficiency of entry into host cells This work indicates that the composition of the bacterial cell wall influences the behaviour of OMVs and is therefore implicated in secretion system independent delivery of bacterial virulence factors during Gram negative infection Bacterial Membranes and Walls Loretta Leive, 1973 Extracellular Vesicles: Advances and Perspectives in Treatments, Therapies, and Vaccination , 2025-11-18 Extracellular Vesicles Advances and Perspectives in Treatments Therapies and Vaccination Volume 96 explores the field of extracellular vesicles EVs and their potential applications in treatments therapies and vaccination Covering a broad range of topics from EV based biomarker detection to vaccine development and theranostic applications this new release in the series includes chapters on Extracellular Vesicles Advances in Treatments Therapies and Vaccination Extracellular Vesicles Advances in Therapies and Vaccination in virus Products of excretion secretion and extracellular vesicles derived from zoonotic helminths a two face response and more Additional sections cover Extracellular Vesicles in Fungal Pathogenesis Mechanisms and Implications Extracellular vesicle based vaccines a promising approach for parasitic diseases Extracellular Vesicles as Vaccines Against Infectious Diseases EVs and images Bacterial Outer Membrane Vesicles Potential and Applications in Next Generation Vaccines Theranostic application of extracellular vesicles in breast cancer and much more Provides an in depth analysis of extracellular vesicles in diverse medical applications including infectious diseases cancer and zoonotic pathogens Highlights the latest advancements in EV based vaccines biomarker detection and therapeutic strategies Presents multidisciplinary perspectives and contributions from researchers across immunology microbiology oncology and nanomedicine Characterizing Outer Membrane Vesicles in the Methanotroph Methylobacterium Album BG8 Mariah Kristen Hermary, 2022 Outer membrane

vesicles OMVs are extracellular vesicles released from the outer leaflet of the membrane of Gram negative bacteria These membrane derived vesicles are found in numerous different phyla of Gram negative bacteria OMV functions are as diverse as the bacteria that produce them from exporting cellular debris to nutrient acquisition to interspecies and intraspecies communication and more Although OMVs are incredibly common there has yet to be a universal mechanism described for OMV production in Gram negative bacteria Methanotrophs are a specialized group of microorganisms that derive their biomass and bioenergetics from single carbon sources such as methane and methanol Methanotrophs are major global methane cycle regulators as the only biological methane sink In addition methanotrophs have significant potential for converting the greenhouse gas methane into value added industrial products In this study *Methylobaculum album* BG8 is the first methanotrophic bacterium documented to produce OMVs Of the screened methanotrophs *M. album* BG8 is the only bacterium to produce these extracellular structures OMV presence has been maintained under various growth conditions These vesicles were harvested and purified away from the bacterial biomass The purified OMVs were sequenced to determine the protein cargo content From the proteome OMVs have a putative function for calcium and iron acquisition response for *M. album* BG8 The Type I secretion system is also predicted to be partially responsible for protein cargo selection in *M. album* BG8 In addition a mutant strain of *M. album* BG8 that does not produce OMVs regardless of the media conditions is documented A list of potential gene candidates is generated based on the iii differences in genome and transcriptome between the wild type parental and mutant strains These genes are hypothesized to be associated with OMV generation Together the results of this research will provide necessary insight into the physiology of these unknown subcellular structures in *M. album* BG8 Future research has the potential for researchers to genetically modify other industrial methanotrophs strains to allow for OMV biogenesis This data will improve the industrialization of this strain as OMVs can be utilized as an extraction mechanism for value added products advancing efforts in the carbon capture and biomass conversion field

Uncover the mysteries within is enigmatic creation, **Outer Membrane Vesicles Of Bacteria Springerbriefs In Microbiology** . This downloadable ebook, shrouded in suspense, is available in a PDF format (Download in PDF: *). Dive into a world of uncertainty and anticipation. Download now to unravel the secrets hidden within the pages.

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