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S.N. Chatterjee · Keya Chaudhuri

Outer Membrane Vesicles of Bacteria

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Outer Membrane Vesicles Of Bacteria Springerbriefs In Microbiology:

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 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 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 *Probing the Molecular Level Details of Bacterial Outer Membrane Vesicles and Their Parent Bacteria* Damien Francis Jefferies,2019 **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

Outer Membrane Vesicle-mediated Export of Virulence Factors from Gram-negative Bacteria, 2012 **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 *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 Influence of Bacterial Outer Membrane Vesicles on Struvite Crystal Growth Ashley Shanaé Summers, 2018 **Characterizing Outer Membrane Vesicles in the**

Methanotroph Methylobacterium Album BG8 Mariah Kristen Hermay, 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 Methylobacterium 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 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

Impact of Bacterial Outer Membrane Vesicles on Antibiotic Resistance Marie Burt,2024

Bacterial Cell Walls and Membranes Andreas Kuhn,2020-08-14 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

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

Bacterial Membranes and Walls Loretta Leive,1973

Bacterial Outer Membrane Vesicles ,2013

Macromolecular Modification of the Cell Wall of Gram-negative Bacteria Leading to Antibiotic Resistance and Formation of Outer Membrane Vesicles Konrad Gwozdziński,2017

Towards Understanding the Molecular Basis of Outer Membrane Vesicles Formation Wael Elhenawy,2015 The release of outer membrane vesicles OMV is utilized by Gram negative bacteria to perform a myriad of functions during pathogenesis and symbiosis Despite their well recognized roles the mechanism responsible for OMV formation in bacteria remains elusive Whether OMV are produced by an active mechanism or by the passive disintegration of the outer membrane OM is a still matter of controversy If OMV are produced as a consequence to cell lysis then their protein content should not differ from the parent OM Nonetheless many studies demonstrated the differences between the proteomes of OMV and the originating membranes suggesting the presence of a directed mechanism for OMV formation and cargo selection In this thesis we compared the proteomes of OM and OMV purified from *B fragilis* and *B thetaiotaomicron* Using mass spectrometry we identified the proteins in the OM and OMV of both organisms Our analysis revealed the presence of more than forty proteins exclusively packed in *B fragilis* OMV In parallel more than 30 proteins were excluded from OMV and were detected only in *B fragilis* OM Sugar hydrolases and proteases constituted a significant fraction of the OMV specific proteins Using in vitro biochemical assays we demonstrated the hydrolytic activity of *B fragilis* OMV Moreover we were able to show that *B fragilis* can induce OMV hydrolases in response to extracellular cues Similar results were obtained with *B thetaiotaomicron* OMV analysis OMV cargo selection is not restricted to the protein content but was found to

include the packed lipids Previous studies demonstrated the uneven distribution of lipids between the OMV and the parent OM In the dental pathogen *Porphyromonas gingivalis* deacylated lipid A species were preferentially enriched in the OMV In this thesis we investigated the role of the lipid A deacylase PagL in OMV production by the prominent enteric pathogen *Salmonella enterica* serovar Typhimurium The expression of PagL in vitro resulted in the exclusive accumulation of deacylated lipid A forms in S Typhimurium OMV Additionally more OMV production was observed when PagL was recombinantly expressed in S Typhimurium On contrary the expression of a catalytically inactive variant of the enzyme did not induce similar vesiculation levels Moreover we demonstrated that PagL is involved in OMV formation by intracellular S Typhimurium Our results suggest a role for PagL mediated lipid A deacylation in OMV biogenesis Unraveling the molecular mechanisms mediating OMV formation will greatly improve our understanding of bacterial pathogenesis

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

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