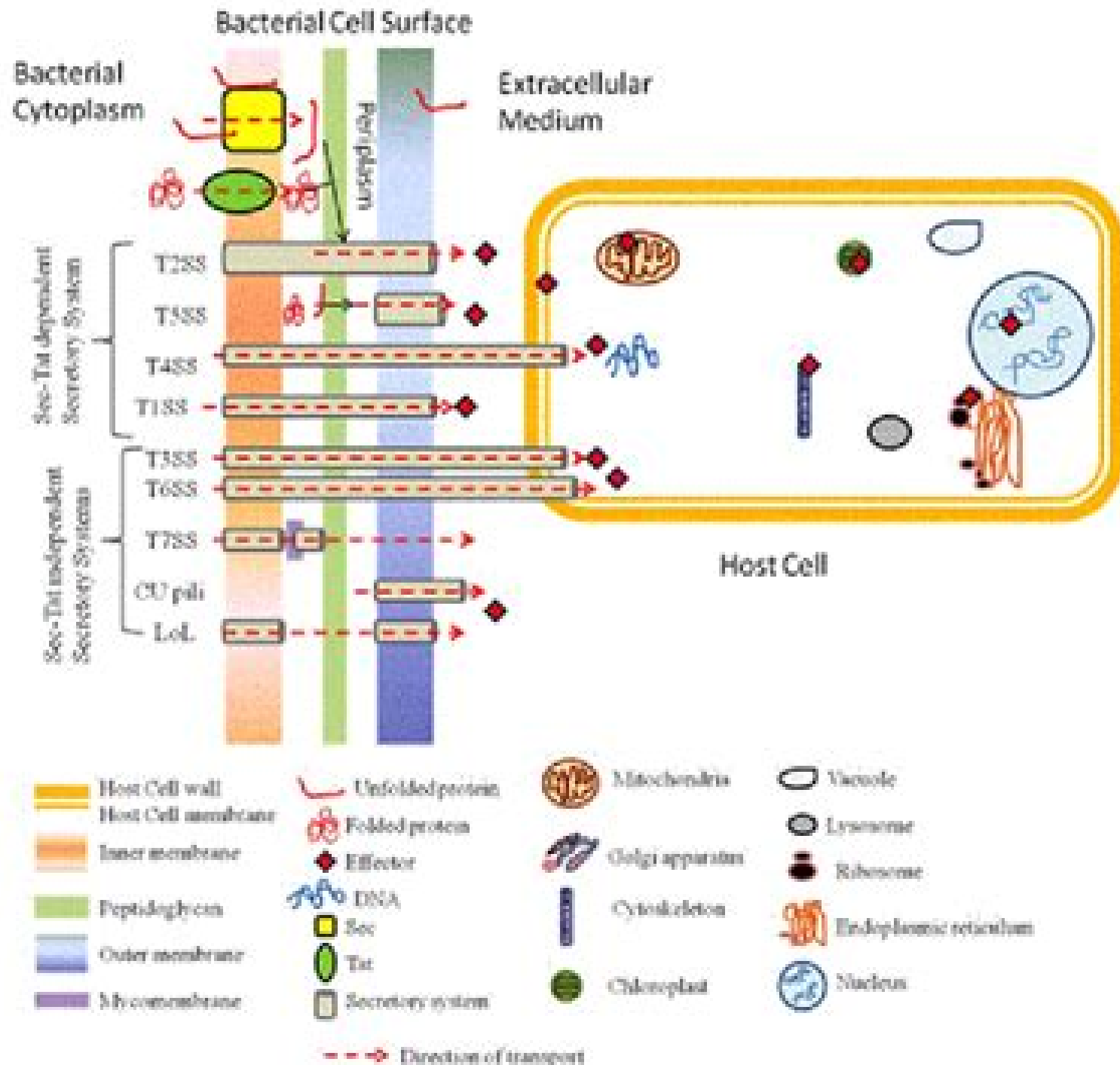




Protein Secretion And Export In Bacteria

**Joseph E. Alouf, Daniel Ladant, Michel
R. Popoff**



Protein Secretion And Export In Bacteria:

Protein Secretion and Export in Bacteria Henry C. Wu, Phang C. Tai, 2012-02-14 The last decade has witnessed rapid progress in our understanding of the mechanisms of protein export and secretion in both prokaryotic and eukaryotic cells. Studies of protein secretion across the membranes of the rough endoplasmic reticulum have led to the formulation of the now classic signal hypothesis which has stimulated many discussions and new ideas and the identification of the signal recognition particle as an organelle in the initiation of the export process. However, more recent work pertaining to intragenic information related to targeting specific proteins for either secretion or membrane localization, the energetics of protein secretion, the timing of synthesis versus the initiation of export, structural requirements for the processing of precursor proteins, and the identification of the processing enzymes, signal peptidases, has been the result of a combined biochemical and genetic approach to the study of protein localization in bacteria. While reviews on the biochemistry and genetics of protein secretion have appeared frequently in recent years, this book attempts to summarize the current status and the future perspectives of this rapidly moving field in a single volume. Topics covered in this book include the genetics of protein secretion in *E. coli*, biochemical analysis of protein export in vitro, signal peptidases, excretion of colicins and hemolysin in *E. coli*, protein secretion in *Bacillus*, and protein secretion cloning vectors.

Protein Secretion in Bacteria Maria Sandkvist, Eric Cascales, Peter J. Christie, 2019-09-01 Protein transport into and across membranes is a fundamental process in bacteria that touches upon and unites many areas of microbiology including bacterial cell physiology, adhesion and motility, nutrient scavenging, intrabacterial signaling and social behavior, toxin deployment, interbacterial antagonism and collaboration, host invasion and disruption, and immune evasion. A broad repertoire of mechanisms and macromolecular machines are required to deliver protein substrates across bacterial cell membranes for intended effects. Some machines are common to most if not all bacteria, whereas others are specific to Gram-negative or Gram-positive species or species with unique cell envelope properties such as members of Actinobacteria and Spirochetes. *Protein Secretion in Bacteria*, authored and edited by an international team of experts, draws together the many distinct functions and mechanisms involved in protein translocation in one concise tome. This comprehensive book presents updated information on all aspects of bacterial protein secretion encompassing individual secretory systems Sec, Tat, and T1SS through the newly discovered T9SS. Mechanisms, structures, and functions of bacterial secretion systems, lipoprotein sorting pathways, outer membrane vesicles, and the sortase system. Structures and roles of surface organelles including flagella, pili, and curli. Emerging technologies and translational implications. *Protein Secretion in Bacteria* serves as both an introductory guide for students and postdocs and a ready reference for seasoned researchers whose work touches on protein export and secretion. This volume synthesizes the diversity of mechanisms of bacterial secretion across the microbial world into a digestible resource to stimulate new research, inspire continued identification and characterization of novel systems, and bring about new ways to manipulate these systems.

for biotechnological preventative and therapeutic applications

Protein and Sugar Export and Assembly in Gram-positive Bacteria Fabio Bagnoli, Rino Rappuoli, 2017-05-02 This book focuses on the envelope of Gram positive bacteria including its composition the latest discoveries in the mechanisms behind its assembly and its role in pathogenesis Furthermore new applications in biotechnology and vaccine development involving these bacteria are discussed in detail This concise volume consists of eleven chapters by prominent experts in the field which review the latest findings and current state of knowledge on a range of diverse yet interlinked aspects This book is written for all researchers clinicians and technicians engaged in basic or applied science projects on Gram positive bacteria

Protein Export and Secretion Among Bacterial Pathogens Sophie Bleves, Romé Voulhoux, Bérengère Ize, Thibault Géry Sana, Denise Monack, 2020-02-27

Bacterial Energetics Terry Krulwich, 2012-12-02 Bacterial Energetics deals with bacterial energetics and the molecular basis of how ions move between and within energy transducing molecules Topics covered range from respiration driven proton pumps and primary sodium pumps to light driven primary ionic pumps bacterial transport ATPases and bacterial photosynthesis Sodium coupled cotransport and ion exchange systems in prokaryotes are also considered This volume is comprised of 17 chapters and begins with an analysis of the pumps and processes that establish electrochemical ion gradients across bacterial membranes followed by a discussion on the major types of bioenergetic work that utilize these gradients The energetics of periplasmic transport systems chemolithotrophs methanogens and protein insertion and translocation into or across membranes are also examined along with bioenergetics in extreme environments such as high pressure and high temperature environments energetic problems of bacterial fermentations energetics of bacterial motility and energetics of the bacterial phosphotransferase system in sugar transport and the regulation of carbon metabolism This book should be of interest to molecular biologists and biochemists

The Comprehensive Sourcebook of Bacterial Protein Toxins Joseph E. Alouf, Daniel Ladant, Michel R. Popoff, 2015-05-29 The Comprehensive Sourcebook of Bacterial Protein Toxins Fourth Edition contains chapters written by internationally known and well respected specialists This book contains chapters devoted to individual toxins as well as chapters that consider the different applications of these toxins Considerable progress has been made in understanding the structure function interaction and trafficking into cells as well as mechanism of action of toxins Bacterial toxins are involved in the pathogenesis of many bacteria some of which are responsible for severe diseases in human and animals but can also be used as tools in cell biology to dissect cellular processes or used as therapeutic agents Novel recombinant toxins are already proposed in the treatment of some diseases as well as new vaccines Alternatively certain toxins are also considered as biological weapons or bioterrorism threats Given the multifaceted aspects of toxin research and the multidisciplinary approaches adopted toxins are of great interest in many scientific areas from microbiology virology cell biology to biochemistry and protein structure This new edition is written with a multidisciplinary audience in mind and contains 5 new chapters that reflect the latest research in this area Other chapters

have been combined deleted and fully revised as necessary to deliver relevant and valuable content Descriptions of relevant toxins as well as representative toxins of the main bacterial toxin families to allow for a better comparison between them Focused chapters on toxin applications and common properties or general features of toxins

Virulence Mechanisms of Bacterial Pathogens Indira T. Kudva, Nancy A. Cornick, Paul J. Plummer, Qijing Zhang, Tracy L. Nicholson, John P. Bannantine, Bryan H. Bellaire, 2020-07-10 Ground breaking overview of an enduring topic Despite the use of antibiotics bacterial diseases continue to be a critical issue in public health and bacterial pathogenesis remains a tantalizing problem for research microbiologists This new edition of Virulence Mechanisms of Bacterial Pathogens broadly covers the knowledge base surrounding this topic and presents recently unraveled bacterial virulence strategies and cutting edge therapies A team of editors led by USDA scientist Indira Kudva compiled perspectives from experts to explain the wide variety of mechanisms through which bacterial pathogens cause disease the host interface host cell enslavement and bacterial communication secretion defenses and persistence A collection of reviews on targeted therapies rounds out the seven sections of this unique book The new edition provides insights into some of the most recent advances in the area of bacterial pathogenesis including how metabolism shapes the host pathogen interface interactions across species and genera mechanisms of the secretion systems evasion survival and persistence mechanisms new therapies targeting various adaptive and virulence mechanisms of bacterial pathogens Written to promote discussion extrapolation exploration and multidimensional thinking Virulence Mechanisms of Bacterial Pathogens serves as a textbook for graduate courses on bacterial pathogenesis and a resource for specialists in bacterial pathogenicity such as molecular biologists physician scientists infectious disease clinicians dental scientists veterinarians molecular biologists industry researchers and technicians

Bacterial Pathogenesis, Part C: Identification, Regulation and Function of Virulence Factors, 2002-12-05 The critically acclaimed laboratory standard for more than forty years Methods in Enzymology is one of the most highly respected publications in the field of biochemistry Since 1955 each volume has been eagerly awaited frequently consulted and praised by researchers and reviewers alike Now with more than 300 volumes all of them still in print the series contains much material still relevant today truly an essential publication for researchers in all fields of life sciences Key Features Presents alternatives to mammalian model systems Discusses virulence and essential gene identification Defines global gene expression

Bacterial Genomes and Infectious Diseases Ricky V.L. Chan, Philip M. Sherman, Billy Bourke, 2007-11-06 The first bacterial genome Haemophilus influenzae was completely sequenced annotated and published in 1995 Today more than 200 prokaryotic archaeal and bacterial genomes have been completed and over 500 prokaryotic genomes are in various stages of completion Seventeen eukaryotic genomes plus four eukaryotic chromosomes have been completed The concept of achieving better understanding of an organism through knowledge of the complete genomic sequence was first demonstrated in 1978 when the first bacteriophage genome X174 was sequenced Complete genomic sequences of prokaryotes have led to a better understanding of the biology and evolution

of the microbes and for pathogens facilitated identification of new vaccine candidates putative virulence genes targets for antibiotics new strategy for rapid diagnosis and investigation of bacteria host interactions and disease mechanisms Recent increased interest in microbial pathogens and infectious diseases is largely attributed to the re emergence of infectious diseases like tuberculosis emergence of new infectious diseases like AIDS and severe acute respiratory syndrome the problem of an increasing rate of emergence of antibiotic resistant variants of pathogens and the fear of bioterrorism Microbes are highly diverse and abundant in the biosphere Less than 1% of these morphologically identified microbes can be cultured in vitro using standard techniques and conditions With such abundance of microbes in nature we can expect to see new variants and new species evolve and a small number will emerge as pathogens to humans **Bacterial Physiology** Walid El-Sharoud, 2007-12-07 The application of new molecular methodologies in the study of bacterial behavior and cell architecture has enabled new revolutionary insights and discoveries in these areas This new text presents recent developments in bacterial physiology that are highly relevant to a wide range of readership including those interested in basic and applied knowledge Its chapters are written by international scientific authorities at the forefront of the subject The value of this recent knowledge in bacterial physiology is not only restricted to fundamental biology It also extends to biotechnology and drug discovery disciplines

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