


Bacterial Phosphotransferase System

**J. K. Broome-Smith, Society for General
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Bacterial Phosphotransferase System:

The Bacterial Phosphotransferase System Milton H. Saier, 2002-06-13 Following its discovery in E coli by Kundig Ghosh and Rosema thirty seven years ago a wealth of information has accumulated on the bacterial Phosphotransferase system PTS. Since then the PTS has been found in a wide variety of different bacteria where it has been recognised to play a pivotal role in numerous aspects of bacterial cellular physiology. While the primary functions of this system involve sugar reception transport and phosphorylation the secondary functions include the regulation both directly and indirectly of important metabolic pathways. In this book Internationally recognised authors review the current research on the PTS discuss the multifaceted structural and functional aspects of the system and attempt to provide a realistic forecast of future discoveries. Study of this important system will contribute to our understanding of prokaryotic physiology and pathogenesis will allow major advances in biotechnology and will result in the development of agents capable of effectively combating harmful microorganisms.

The Bacterial Phosphotransferase System (PTS) Jean-Marc Jeckelmann, 2009

The Bacterial Phosphotransferase System Milton H. Saier, 2002-06-13 Following its discovery in E coli by Kundig Ghosh and Rosema thirty seven years ago a wealth of information has accumulated on the bacterial Phosphotransferase system PTS. Since then the PTS has been found in a wide variety of different bacteria where it has been recognised to play a pivotal role in numerous aspects of bacterial cellular physiology. While the primary functions of this system involve sugar reception transport and phosphorylation the secondary functions include the regulation both directly and indirectly of important metabolic pathways. In this book Internationally recognised authors review the current research on the PTS discuss the multifaceted structural and functional aspects of the system and attempt to provide a realistic forecast of future discoveries. Study of this important system will contribute to our understanding of prokaryotic physiology and pathogenesis will allow major advances in biotechnology and will result in the development of agents capable of effectively combating harmful microorganisms.

Molecular Biology of Receptors and Transporters: Bacterial and Glucose Transporters, 1992-10-16 This multi volume set within International Review of Cytology encompasses the recent advances in the understanding of structure function relationships at the molecular level of receptors transporters and membrane proteins. Several diverse families of membrane receptors proteins are discussed with respect to the molecular and cellular biology of their synthesis assembly turnover and function. Included are such receptor superfamilies as G proteins immunoglobulins ligand gated receptors interleukins and tyrosine kinases as well as such transporter protein families as pumps ion channels and bacterial transporters. Each section of each volume also features a perspectives commentary chapter which includes comments on the recent advances and predictions on new directions. Volume 137A highlights the recent advances in bacterial and glucose transporter mechanisms.

Structural Studies on Proteins of the Bacterial Phosphotransferase System Christian Siebold, 2002

Bacterial Sensing and Signaling Mattias Collin, Raymond Schuch, 2009-01-01 Over the last fifteen years it has become increasingly

obvious that bacteria are not as simple and solitary as once believed. Rather, an accumulating body of work shows that bacteria are highly complicated and social organisms constantly sensing their surroundings and altering both their environments and behaviors to ensure survival. Direct communication between bacteria turns out to be quite common, as are coordinated intra- and interspecies responses that include the formation of highly sophisticated microbial communities. In fact, threats to bacterial survival from assaults ranging from nutrient deprivation and oxygen depletion to the defenses of eukaryotic hosts are all managed through the integration of a dizzying array of complex sensory and communication systems with the appropriate bacterial behaviors. This volume provides an update of the current knowledge in the expanding field of bacterial sensing and signaling, highlighting its most important and interesting aspects. In twelve state-of-the-art articles, respected international experts address topics such as quorum sensing and secondary messengers, chemotaxis and magnetotaxis, two-component phosphotransferase systems, bacterial virulence mechanisms, thermoregulation, and more. The final chapter represents a unique description of the tools available to manipulate many of the sensing and signaling systems described in this volume. *Bacterial Sensing and Signaling* is recommended reading for students, scientists, and clinicians with interests in microbiology, immunology, ecology, biotechnology, and a range of other disciplines.

Components of the Bacterial Phosphoenolpyruvate:sugar Phosphotransferase System Bradley John Schnierow, 1988

Bacterial Cell Walls and Membranes Andreas Kuhn, 2019-06-18 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.

Structure and Function of Components of the Bacterial Phosphotransferase System Robert Leon Marie van Montfort, 1998

Bacterial Signaling Reinhard Krämer, Kirsten Jung, 2009-12-09 Providing a comprehensive insight into cellular signaling processes in bacteria, with a special focus on biotechnological implications, this is the first book to cover intercellular as well as intracellular signaling and its relevance for biofilm formation, host-pathogen interactions, symbiotic relationships, and photo- and chemotaxis. In addition, it deals in detail with principal bacterial signaling mechanisms, making this a valuable resource for all advanced students in microbiology. Dr. Krämer is a world-renowned expert in intracellular signaling and its implications for biotechnology processes, while Dr. Jung is an expert on intercellular signaling and its relevance for biomedicine and

agriculture Bacterial Phosphotransferase System (PTS) Rudolf Beutler,2000 Fundamentals of Bacterial Physiology and Metabolism Rani Gupta,Namita Gupta,2021-04-20 This book provides useful information on microbial physiology and metabolism The key aspects covered are prokaryotic diversity growth physiology basic metabolic pathways and their regulation metabolic diversity with details of various unique pathways Another focus area is stress physiology with details on varying environmental stresses signal transduction adaptation and survival For instructional purposes the book provides case studies interesting facts techniques etc which help in showcasing the inter disciplinary nature and bridge the gap between various aspects of applied microbiology **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 Microbial Transport Systems Günther Winkelmann,2008-01-08 Transport of molecules across the cell membrane is a fundamental process of all living organisms It is essential for understanding growth development nutrition as well as uptake and excretion of exogenous or synthesized molecules Microbes represent general and basic functional systems where many transport processes have been studied on a molecular basis Knowledge of the microbial transport processes will provide new perspectives to treatments by inhibitors drugs antibiotics vitamins growth promotion compounds activators and toxic compounds of various kinds **Advances in Microbial Physiology**,2023-03-20 Advances in Microbial Physiology Volume 82 in this series that highlights new advances in the field presents interesting chapters on a variety of topics including Protein secretion via the Type I secretion system Purine utilization by enterobacteria Microbiology of Algae Growth of enteric bacteria in the intestine on C4DCs Governance of C4DC transporters in metabolic adaptation and genetic control Biological functions of bacterial lysophospholipids and much more Provides the authority and expertise of leading contributors from an international board of authors Presents the latest release in the Advances in Microbial Physiology series *The Molecular Basis of Biological Transport* J. F. Woessner,F

Huijing,2013-10-22 Miami Winter Symposia Volume 3 The Molecular Basis of Biological Transport covers the proceedings of the symposium held in Miami on January 10 11 1972 The book discusses the life of Feodor Lynen and his lecture on carbon dioxide fixation the biochemical significance of the anion transporting systems of mitochondria especially that of amino acid systems and the possible functional roles of transport through membrane junctions The text also describes the role of chlorotetracycline as a fluorescent chelate probe for monitoring Ca and Mg binding to biological membranes and the effects of carcinogens and steroid hormones on the structural apparatus involved in protein synthesis and export The nature and regulation of hexose uptake by Escherichia coli the role of bacterial phosphotransferase system in sugar transport and energy coupling to lactose transport in Escherichia coli are also considered The book further tackles citrate transport by Bacillus subtilis leucine transport in Escherichia coli and the transport mechanism in isolated bacterial cytoplasmic membrane vesicles Biochemists microbiologists pharmacologists physiologists and people involved in enzyme and metabolic research will find the book invaluable **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 Cumulated Index Medicus ,1980 *Molecular Mechanisms Controlling Transmembrane Transport* Eckhard Boles,Reinhard Krämer,2004-06-16 All living cells are strictly separated from their surroundings by a membranous lipid bilayer Into these membranes a variety of transport proteins are embedded that ensure the uptake and secretion of various molecules and ions In order to respond properly to a changing nutrient supply or demand as well as to external stress factors cells must be able to adapt both amount and activity of the corresponding transporters This book provides readers with state of the art knowledge on the various regulatory mechanisms that control transmembrane transporter expression activity and their subcellular localisation **The Evolution of Metabolic Function** Robert P. Mortlock,1992-05-20 The Evolution of Metabolic Function presents comprehensive discussions on a variety of topics that will interest scientists and students studying the evolution of enzyme activities the evolution of enzymatic pathways and the evolution and development of metabolic functions Laboratory experiments designed to develop new enzyme activities and new metabolic pathways are discussed The most recent techniques comparing protein and gene structures are used to analyze and discuss the evolution and development of such metabolic functions as the bacterial phosphoenolpyruvate sugar phosphotransferase system the mandelate pathway of microorganisms bacterial alcohol metabolism and certain microbial amino acid biosynthetic pathways The book also includes some unique speculations regarding the origin of early Archaean cells and the prebiotic evolution of complex molecules

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