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The Bacteria V



The Bacteria

A Treatise on Structure and Function

Edited by

I. C. GUNSALUS
ROGER Y. STANIER

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The Bacteria A Treatise On Structure And Function

Volume V Heredity

Stephen W. Queener



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Heredity I Gunsalus, 2012-12-02 The Bacteria A Treatise on Structure and Function Volume V Heredity explores the role of bacterial genetics in heredity The book includes chapters on genetic fine structure genetic replication and gene enzyme relationships along with gene transduction bacterial episomes and genetic recombination This volume is organized into 10 chapters and begins with an overview of conjugation as a mechanism of genetic exchange in bacterial species such as *Escherichia coli* *Salmonella typhosa* *Pseudomonas aeruginosa* *Vibrio cholera* and *Serratia marcescens* The book then discusses transduction its uses and evolutionary implications and the nature of the transducing particle as well as the transduction of galactose genes by bacteriophage lambda The reader is also introduced to transformation and its use in genetic analysis along with bacterial episomes and genetic transfer genetic recombination and other genetic phenomena in streptomycetes and DNA replication The book concludes by explaining how bacteria should be defined from a biological standpoint This book is a valuable source of information for geneticists biochemists biologists and research workers involved in the biological sciences

The Bacteria Bozzano G Luisa, 2012-12-02 The reviews in this volume deal with questions of the mechanisms of pathogenesis and with organisms that have only recently been extensively studied on the molecular level The introductory section presents an overview of pathogenesis emphasizing common elements and genetic mechanisms of regulation and a review on the population genetics of bacterial pathogenesis The second section deals with the regulation of synthesis of surface components and their role in the colonization of the host and or of the host immune systems The third section covers the invasion and intracellular growth of facultative and obligate intracellular parasites The last section is devoted to studies of the role of bacterial toxic products in pathogenesis

The Biology of Pseudomonas J

Sokatch, 2012-12-02 The Bacteria A Treatise on Structure and Function Volume X The Biology of *Pseudomonas* is generally an update of information already published about *pseudomonas* This book contains information that has been discovered since the release of *Genetics and Biochemistry of Pseudomonas* Divided into three parts the book starts with the foundation which is the biology of the *pseudomonas* The next part deals about the genetics while the last part tackles the biochemistry of *pseudomonas* The first section of this book covers topics including the modern review of the taxonomy of *pseudomonas* Other sections include chapters on the important medical applications of features of these bacteria Chapters on the virulence factors membrane transport and plasmids are also presented in this book The second section of this book deals with genetics and topics including cloning and regulation of transcription The metabolic versatility is given recognition in the third section of this book Moreover this section thoroughly discusses amino acid metabolism cytochrome and hydrocarbon catabolism

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 **Mechanisms of Adaptation** J.R. Spkatch, 2014-04-24

The Bacteria Volume VII Mechanisms of Adaptation explores the mechanisms of bacterial adaptations and covers topics ranging from bacterial spores cysts and stalks to nitrogen fixation bacterial chemotaxis bacteriophage growth and the structure and biosynthesis of bacterial cell walls The roles of appendages and surface layers in adaptation of bacteria to their environment are also considered along with cell division in Escherichia coli This volume is comprised of nine chapters and begins with a discussion on the structure properties formation and regulation of spores cysts and stalks in actinomycetes blue green bacteria myxobacteria Bacillus Azotobacter and Caulobacter The reader is then introduced to the biochemistry regulation genetics and evolution of nitrogen fixing in organisms the receptors involved in bacterial chemotaxis and the nature of the sensing mechanism the outer membrane of gram negative bacteria and bacterial functions involved in nutrient detection and acquisition The roles played by organelles and surface layers in the adaptation of bacteria to their environment are also examined The final chapter deals with the regulation of and coordination between the multitude of events involved in cell division in Escherichia coli This monograph will be a useful resource for microbiologists bacteriologists biochemists and biologists **Archaeobacteria** Carl R. Woese, 2012-12-02 The Bacteria A Treatise on Structure and Function Volume VIII

Archaeobacteria is divided into three major parts and is further subdivided into several chapters Each part deals with a specific area of study regarding archaeobacteria Part I tackles the biochemical diversity and ecology of archaeobacteria while Part II discusses translation apparatus of these organisms The last part focuses on archaeobacteria's general molecular characteristics Generally the physiological morphological ecological and molecular aspects of the archaeobacteria are discussed in this volume This book also covers a historical distinction between prokaryote eukaryote and the simultaneous development of archaeobacteria This book is a recommended reference for biologists and scientists who are interested in the unique characteristics of archaeobacteria as a very special type of bacteria These organisms provide a new world for thermophilic organisms and at the same time make experts reexamine their idea of prokaryotes Their relationship to eukaryotes leads people to believe that archaeobacteria are truly a new kingdom of organisms *The Bacteria: Bacterial energetics* Irwin Clyde Gunsalus, 1960 **Antibiotic-Producing Stetomyces** Stephen W. Queener, 1986-03-28 The Bacteria

Volume IX Antibiotic Producing Streptomyces explores how Streptomyces including actinomycetes produce a variety of antibiotics such as aminocyclitols ansamycins macrolides and tetracyclines Topics covered range from physiology and fermentation to genetic recombination and chromosome mapping in Streptomyces biomodification of antibiotics by Streptomyces and biosynthesis of tylosin and erythromycin The genome structure and evolution of Streptomyces are also discussed This volume is comprised of 10 chapters and begins with a discussion on the taxonomy of Streptomyces based on morphology physiological characteristics the composition of cell constituents such as cell walls and the presence of characteristic lipids sugars and quinones The discussion then turns to the intraspecific and interspecific recombination in Streptomyces pathways of DNA repair and mutagenesis in Streptomyces fradiae strategies for isolation of improved Streptomyces mutants for antibiotic production and derivation of DNA cloning vectors from Streptomyces phages The biology and use of Streptomyces plasmids as cloning vectors are also described The final chapter is devoted to major structural classes of antibiotics produced by Streptomyces including anthracyclines and other quinones lactams macrolides nucleosides peptides polyenes polyether antibiotics and tetracyclines This book will be of value to microbiologists bacteriologists biochemists and biologists Quarterly Journal of Experimental Physiology and Cognate Medical Sciences ,1964

Molecular Basis of Bacterial Pathogenesis Barbara H. Iglewski,1990-01-01 Molecular Basis of Bacterial Pathogenesis focuses on the molecular mechanism of disease associated with bacterial pathogens Topics covered include the population genetics of bacterial pathogenesis environmental modulation of gene expression in gram negative pathogens and bacterial invasion and intracellular growth Bacterial toxins are also discussed This volume is comprised of 20 chapters and begins with an overview of pathogenesis paying particular attention to common elements and genetic mechanisms of regulation The discovery that many bacterial pathogens are clonal with individual clones often having a greater virulence than others is then considered The next section deals with the regulation of synthesis of surface components and their role in colonization of the host and or evasion of the host immune defense systems antigenic variation and its role in evasion of the host immune response and the role of iron acquisition systems in the colonization of the host Subsequent chapters explore the invasion and intracellular growth of facultative and obligate intracellular parasites The last section is devoted to studies on the role of bacterial toxic products in pathogenesis Bacterial lipopolysaccharides endotoxins and exotoxins are described This book should be of interest to molecular biologists physiologists clinical specialists pathologists and geneticists The Bacteria I. C. Gunsalus,1964 **Current Science** ,1965 **The Bacteria: The Biology of pseudomonas** ,1960 *The Bacteria: Bacterial diversity* Irwin Clyde Gunsalus,1978 **The Bacteria: Mechanisms of adaptation** ,1960 Bibliography of Agriculture ,1965 *Selected Basic Science Books in the Reference Collection of the National Library of Medicine* National Library of Medicine (U.S.),1964 **Genetics of Bacterial Diversity** David A. Hopwood,Keith F. Chater,2013-09-03 Genetics of Bacterial Diversity focuses on the rapidly developing field of non K 12 bacterial genetics that is largely outside

the scope of other texts The book begins with an introductory chapter that outlines the phylogenetic relationships of bacteria and the range of metabolic behavioral and developmental phenomena displayed by them Two chapters then review the genetic processes found in bacteria generally and discuss a range of genetic techniques used to analyze the various special systems described in the body of the book respectively Subsequent chapters deal with various special metabolic capabilities characteristic of certain groups of bacteria light production photosynthesis nitrogen fixation antibiotic production degradation of aromatic compounds and mercury resistance developmental processes of cell cycle associated motility sporulation and specialized colonial behavior four components of bacterial pathogenicity for animals and pathogenic and symbiotic interactions of bacteria with higher plants The final chapter explains some of the concepts and the progress being made in the application of population genetics to bacteria This book may be of interest to microbiologists wishing to catch up on the genetic basis of some of the classical phenomena of bacteriology and geneticists unfamiliar with some of the things that bacteria can accomplish *The Bacteria: Mechanisms of adaptation* Irwin Clyde Gunsalus, Roger Y. Stanier, John Robert Sokatch, L. Nicholas Ornston, 1960 Institute of Biology Journal , 1964

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