

Chapter 27: Bacteria and Archaea Reading Guide

Overview

1. The chapter opens with amazing tales of life at the extreme edge. What are the "masters of adaptation"? Describe the one case you thought was most dramatic.

27.1 Structural and functional adaptations contribute to prokaryotic success

2. Which two domains include prokaryotes?
3. Let's focus on some general details about prokaryotes.
 - a. Are they multicellular or unicellular?
 - b. Compare their size relative to eukaryotic cells.
 - c. What three shapes are most common? Draw and label them.
 - d. What is the composition of the typical bacterial cell wall?
4. A key feature of prokaryotic cells is the cell wall. What three functions does it provide for the cell?
5. Quick review! What material comprises the cell wall of plants? Of fungi?
6. The cell walls of archaeans are different. They lack _____ but contain _____ and _____.
7. Explain the difference between gram-positive and gram-negative bacteria.
8. What is a bacterial capsule? What functions may it serve?
9. Many prokaryotes are capable of directional movement. What is this called?
10. What structure makes movement of bacteria possible?
11. What are the small, circular, self-replicating pieces of DNA found in bacteria called?
12. Copy and fill in the chart below.

	Prokaryotes	Eukaryotes
Size		
Genome		
Membranes		
Location of genome		
Plasmids		
Ribosomes		

13. Under ideal conditions, how quickly can *E. coli* divide? What conditions check prokaryotic reproduction?
14. What three key features allow prokaryotic populations to consist of trillions of individuals?
15. Draw and label a typical prokaryotic cell. Be sure to include the cell wall, sex pilus, circular chromosome, nucleoid region, ribosomes, flagella, capsule, and fimbriae. Also, sketch in a plasmid and label it. For each structure, know the function.
16. When conditions for survival are difficult, some species produce endospores. What are these? Can you name any species that form endospores?

27.2 Rapid reproduction, mutation, and genetic recombination promote genetic diversity in prokaryotes

17. You should now have some idea why there is so much potential for genetic diversity with bacterial populations. Although mutation is the major source of genetic variation in prokaryotes, explain each of the following three other sources of variation: (A) recombination, (B) transformation, and (C) transduction.
18. What is horizontal gene transfer? How is it accomplished in bacteria?
19. What is a sex pilus? What is the F factor? How are the two related?
20. The F factor is an episome. This is a piece of DNA that can be integrated within the main chromosome of the bacterium, or able to exist as an independent plasmid. What is the bacterial cell called:

Chapter 27 Bacteria And Archaea Reading Guide

Diane Schmidt



Chapter 27 Bacteria And Archaea Reading Guide:

Student Study Guide for Biology [by] Campbell/Reece/Mitchell Martha R. Taylor, 1999 Student Study Guide to accompany Alcamo's Fundamentals of Microbiology Jeffrey C. Pommerville, 2010-08-10 The Student Study Guide to accompany Alcamo's Fundamentals of Microbiology Ninth Edition contains important information to help you study take effective class notes prepare properly for exams and even to manage your time effectively The Study Guide also contains over 3 000 practice exercises and study questions of various types to help you learn and retain the information in the text **Life Study Guide** David E. Sadava, Gordon H. Orians, Craig Heller, William K. Purves, 2006-12-22 Especially helpful for AP Biology students each chapter of the study guide offers a variety of study and review tools The contents of each chapter are broken down into both a detailed review of the Important Concepts covered and a boiled down Big Picture snapshot The guide also covers study strategies common problem areas and provides a set of study questions both multiple choice and short answer

Science Indiana Standards Manager Grade 6 Mcdougal Littel, 2004 *Discover the World of Microbes* Gerhard Gottschalk, 2012-09-12 This title is an essential primer for all students who need some background in microbiology and want to become familiar with the universal importance of bacteria for all forms of life Written by Gerhard Gottschalk Fellow of the American Academy of Microbiology and one of the most prominent microbiologists in our time this text covers the topic in its whole breadth and does not only focus on bacteria as pathogens The book is written in an easy to read entertaining style but each chapter also contains a facts section with compact text and diagrams for easy learning In addition more than 40 famous scientists including several Nobel Prize winners contributed sections written specifically for this title The book comes with color figures and a companion website with questions and answers Key features Unique introductory text offering a comprehensive overview of the astonishing variety and abilities of Bacteria Easy to read fascinating and educational Written by one of the best known microbiologists of our time Color images throughout Each chapter has a compact tutorial part with schemes on the biochemistry and metabolic pathways of Bacteria Comes with a companion website with questions and answers Life William K. Purves, 2004 New edition of a text presenting underlying concepts and showing their relevance to medical agricultural and environmental issues Seven chapters discuss the cell information and heredity evolutionary process the evolution of diversity the biology of flowering plants and of animals and ecology and biogeography Topics are linked by themes such as evolution the experimental foundations of knowledge the flow of energy in the living world the application and influence of molecular techniques and human health considerations Includes a CD ROM which covers some of the subject matter and introduces and illustrates 1 700 plus key terms and concepts Annotation copyrighted by Book News Inc Portland OR **Photosynthetic Life** Denis Murphy, Tanai Cardona, 2022 Written primarily for mid to upper level undergraduates this title the mechanisms of photosynthesis its role in the evolution of plant related organisms from cyanobacteria to flowering plants and its wider ecological and climatic significance The primer brings together the latest

research to show how the process of photosynthesis has evolved over the last three to four billion years from its beginnings in bacteria to the various refinements now present in modern land plants The authors explain how repeated endosymbiotic and gene gain loss events have led to the evolution of the various algal groups and related non photosynthetic groups and how photosynthesis was modified as plants evolved and diversified into different ecological niches around the world The role of photosynthesis in the alteration of the geology and biology of the earth which enabled the colonisation of the land by plants and animals is also explored Finally this title examines the limitations of photosynthesis and the emerging biotechnological improvements that could make this vital process even more attractive as a source of clean energy food and other industrial products Photosynthetic Life is available for students and institutions to purchase in a variety of formats and is supported by online resources The ebook offers a mobile experience and convenient access www.oxfordtextbooks.co.uk/ebooks The online resources include For students Self test questions For registered adopters of the book Figures from the book available to download [Modules](#) McDougal Littell Incorporated,2005 *Study Guide Essential Biology with Physiology* Edward J. Zalisko,2003-07 Students can master key concepts and earn a better grade with the thought provoking exercises found in this study guide Study advice tables quizzes and crossword puzzles help students test their understanding of biology The Study Guide also includes references to student media activities on the Essential Biology CD ROM and Website

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Guide to Reference and Information Sources in Plant Biology Diane Schmidt,2006 Part of the Reference Sources in Science and Technology series this bibliography of nearly 1 000 annotated entries covers various aspects of plant biology Organised by topic this book includes various topics from plant physiology to genetics and biotechnology and is useful to botanists *Alcamo's Fundamentals of Microbiology: Body Systems* Jeffrey C. Pommerville,2012-01-15 Ideal for allied health and pre nursing students Alcamo s Fundamentals of Microbiology Body Systems Second Edition retains the engaging student friendly style and active learning approach for which award winning author and educator Jeffrey Pommerville is known Thoroughly revised and updated the Second Edition presents diseases complete with new content on recent discoveries in a

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Manual of Environmental Microbiology Christon J. Hurst, Ronald L. Crawford, 2002 The new second edition of this essential manual summarizes the information and knowledge of environmental microbiology in a single source It details the natural fate of microorganisms in the environment as well as the intentional attempts to eliminate from the environment microorganisms that are pathogenic to humans or to plants and animals The basic principles of environmental microbiology and general analytical methodologies common across the range of the environments covered are presented first The core sections are structured with regard to the type of environmental medium being discussed This landmark effort defines the study of environmental microbiology as we know it today and serve as an essential contribution to the literature

AGO-Driven Non-Coding RNAs Bibekanand Mallick, 2019-01-20 The RNA world hypothesis that proposed RNA molecules as the first form of genetic material was put forward in the late 1980s but got impetus only recently when high throughput sequencing technologies began unearthing new types of non coding RNA ncRNA transcripts in higher eukaryotes Till then research on ncRNAs were primarily confined to transfer RNAs and ribosomal RNAs which act as the messengers of the protein synthesis and allow translation of genetic information encoded by DNA into proteins In recent years the integration of high throughput genomic technologies with molecular biology and omics sciences have revolutionized the fields of ncRNA research by identifying the hidden treasures of several new types of ncRNAs encoded in the genomes of several organisms and decrypting their versatile roles in gene expression and epigenetics Among these two small endogenous ncRNAs namely microRNAs miRNAs and piwi interacting RNAs piRNAs that drive argonaute AGO family of proteins namely Ago and Piwi respectively and silence the expression of genes have geared up molecular and disease biology research in recent years Both miRNAs and piRNAs are expressed in higher eukaryotes including human and act as cellular rheostats by regulating the expression of significant fraction of genes encoded in the genomes The aberrant expressions of these small ncRNAs within the cells cause various abnormalities and diseases including cancer Manipulating their aberrant expression or function can serve as potential novel diagnostic prognostic biomarkers and bring in new therapeutic strategies for multiple human diseases This can be further translated from bench side to clinic for improving human health This book captures the essence of the pioneering work of some of the world's leading researchers showcasing the scientific excitements surrounding the evolving regulatory roles of miRNAs and piRNAs highlighting their potential towards the diagnosis and therapeutics of various diseases The book is geared towards scientists students and will particularly appeal to active investigators in RNA biology molecular biology cancer research as well as clinicians and will provide them a comprehensive

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