

BACTERIA - a single cell organisms. Well-known examples of bacteria include salmonella and staphylococcus bacteria.

Nomenclature of Bacteria - Refers to naming of bacteria and other organisms which are named according to the binomial system.

TYPES OF BACTERIA

Spherical: Bacteria shaped like a ball are called cocci, and a single bacterium is a coccus.

Rod-shaped: These are known as bacilli (singular bacillus). Some rod-shaped bacteria are curved. These are known as vibrio.

Spiral: These are known as spirilla (singular spirillus). If their coil is very tight they are known as spirochetes.

Bacteria Structure

Capsule - some bacteria have this third protective covering which is made up of polysaccharides; most important role is to keep the bacterium from drying out and protect it from phagocytosis or engulfing by larger microorganisms.

Cell wall - each bacterium is enclosed in rigid cell wall that gives its shape and surrounds the cytoplasmic membrane, protecting it from the environment; the strength of the wall is responsible from keeping the cells from bursting when there's a large difference in osmotic pressure between cytoplasm and environment.

Plasma membrane - a layer of phospholipids and proteins that encloses the interior of the bacterium, regulating the flow of materials in and out of the cell.

Nucleoid - region of cytoplasm where DNA is located.

Cytoplasm - this is where the functions of cell growth, metabolism, and replication are carried out.

Ribosomes - microscopic factories found in all cells; translate genetic code from the molecular language of nucleic acid to that of amino acids - the building blocks of proteins which are the molecules that performs the functions of cells and living organisms.

Flagellum - hairlike structure that provide a means of locomotive function for those bacteria that have them; helps the bacteria to move away from toxic chemicals and towards nutrients.

Pilus - hairlike projections (shorter) that assists the bacteria in attaching to other cells and surfaces.

Bacteria Feeding

Heterotrophic bacteria, or heterotrophs, get their energy through consuming organic carbon. Most absorb dead organic material, such as decomposing flesh. Some of these parasitic bacteria kill their host, while others help them.

Autotrophic bacteria (autotrophs) make their own food, either through either: photosynthesis, or chemosynthesis.

Photoautotrophs: Bacteria that use photosynthesis

Chemoautotrophs: Those that use chemosynthesis. These bacteria are commonly found in ocean vents and in the roots of legumes.

How do bacteria reproduce?

Binary fission the bacterium, which is a single cell, divides into two identical daughter cells - begins when the DNA of the bacterium divides into two (replicates)

Bacterial Diseases in Humans

Diseases of the Upper Respiratory Tract

1. Streptococcal diseases (strep throat): are caused by Streptococcus pyogenes.

2. Diphtheria is caused by a prophage-harboring strain of *Corynebacterium diphtheriae*. As dead tissue accumulates, a pseudomembrane forms in the throat or nasopharynx.

3. Pertussis (whooping cough) is caused by *Bordetella pertussis*.

4. Bacterial meningitis is an inflammation of the membranes surrounding the brain and spinal cord. The infection can be caused by *Neisseria meningitidis*, *Streptococcus pneumoniae*, or *Haemophilus influenzae*.

Diseases of the Lower Respiratory Tract

1. Tuberculosis (TB) is caused by the acid-fast bacilli of *Mycobacterium tuberculosis*.

2. "Typical" bacterial pneumonia is primarily caused by *Streptococcus pneumoniae* (pneumococcal pneumonia). *Haemophilus influenzae*, *Staphylococcus aureus*, and *Klebsiella pneumoniae* are other species.

3. "Atypical" bacterial pneumonia can be caused by *Mycoplasma pneumoniae*.

Foodborne and Waterborne Bacterial Diseases

1. Botulism is a severe form of food poisoning caused by nerve toxins produced by *Clostridium botulinum*.

2. Salmonella Typhi is an acid-resistance bacillus that invades the blood. The infection is characterized by fever, abdominal pain, rose spots, lethargy, and delirium. Typhoid vaccines are available and chloramphenicol is the antibiotic of choice.

3. Vibrio cholerae infects the small intestines, producing an enterotoxin causing profuse watery diarrhea and vomiting.

Anthrax is an acute infectious disease caused by *Bacillus anthracis*.

Clostridium tetani is the causative agent of tetanus.

Leptospirosis is a disease spread from animals to humans (zoonosis) by *Leptospira interrogans*. Infected individuals have flu-like symptoms.

Syphilis caused by *Treponema pallidum*. Primary syphilis is characterized by a chancre.

Gonorrhea caused by *Neisseria gonorrhoeae*. women may have symptoms of vaginal and urethral discharge of pus and burning during urination.

The Viruses

Viruses have 2 - helical - icosahedral - Complex Symmetry.

Viral Replication and Its Control 1. Attachment 2. Penetration 3. Uncoating 4. Biosynthesis 5. Assembly 6. Release

Modern Biology Answer Key Bacteria Ch 23

JS Bruner

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College Biology Learning Exercises & Answers Textbook Equity, 2014-08-22 This textbook is designed as a quick reference for College Biology volumes one through three. It contains each Chapter Summary, Art Connection, Review and Critical Thinking Exercises found in each of the three volumes. It also contains the COMPLETE alphabetical listing of the key terms. black white version College Biology intended for capable college students is adapted from OpenStax College's open CC BY textbook Biology. It is Textbook Equity's derivative to ensure continued free and open access and to provide low cost print formats. For manageability and economy Textbook Equity created three volumes from the original that closely match typical semester or quarter biology curriculum. No academic content was changed from the original. See textbookequity.org/tbq_biology This supplement covers all 47 chapters.

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Biology Ebook Raven, 2016-05-16 Biology Ebook **Life at High Pressure** Alister Macdonald, 2021-07-12 The book discusses the ways in which high hydrostatic pressure (i.e. water pressure) affects all forms of life which thrive at pressures much greater than those in our normal environment. The deep sea is the best known high pressure environment where pressures reach a thousand times greater than those at the surface yet it is populated by a variety of animals and microorganisms. The earth's crust supports microorganisms which live in water-filled pores at high pressure. In addition, the load bearing joints of animals like ourselves experience pulses of hydrostatic pressure of a magnitude similar to the pressure at mid-ocean depths. These pressures affect molecular structures and biochemical reactions. Basic cellular processes are drastically affected: the growth and division of cells, the way nerves conduct impulses and the chemical reactions which provide energy. Adaptation to high pressure also occurs in complex physiological systems such as those which provide buoyancy. Probably the greatest challenge to our understanding of adaptation to high pressure is the stabilisation of the nervous system of deep sea animals to avoid convulsions which pressure causes in shallow water animals. Additionally, the book provides insight into the engineering required to study life at high pressure equipment which can trap small deep sea animals and retrieve them at their high pressure equivalent equipment for microorganisms, laboratory microscopes which can focus on living cells under high pressure incubators for bacteria which require high pressure to grow, high pressure aquaria for marine animals and, lastly and briefly, manned and unmanned submersible vessels, Landers and deep drill hole sampling. Rather like the organisms studied many laboratory instruments have been adapted to

function at high pressure *EBOOK: Biology* Peter Raven, George Johnson, Kenneth Mason, Jonathan Losos, Susan Singer, 2013-02-16 Committed to Excellence in the Landmark Tenth Edition This edition continues the evolution of Raven Johnson's Biology. The author team is committed to continually improving the text keeping the student and learning foremost. We have integrated new pedagogical features to expand the students learning process and enhance their experience in the ebook. This latest edition of the text maintains the clear accessible and engaging writing style of past editions with the solid framework of pedagogy that highlights an emphasis on evolution and scientific inquiry that have made this a leading textbook for students majoring in biology and have been enhanced in this landmark Tenth edition. This emphasis on the organizing power of evolution is combined with an integration of the importance of cellular molecular biology and genomics to offer our readers a text that is student friendly and current. Our author team is committed to producing the best possible text for both student and faculty. The lead author Kenneth Mason University of Iowa has taught majors biology at three different major public universities for more than fifteen years. Jonathan Losos Harvard University is at the cutting edge of evolutionary biology research and Susan Singer Carleton College has been involved in science education policy issues on a national level. All three authors bring varied instructional and content expertise to the tenth edition of Biology. *Introduction to Genetics*

Terry A. Brown, 2025-02-18 Nowadays genetics focuses on DNA. Just like the first edition the theme of this new edition *Introduction to Genetics A Molecular Approach* is therefore the progression from molecules DNA and genes to processes gene expression and DNA replication to systems cells organisms and populations. This progression reflects both the basic logic of life and the way in which modern biological research is structured. The molecular approach is particularly suitable for students for whom genetics is part of a broader program in biology biochemistry the biomedical sciences or biotechnology. This book presents the basic facts and concepts with enough depth of knowledge to stimulate students to move on to more advanced aspects of the subject. This second edition has been thoroughly updated to cover new discoveries and developments in genetics from the last ten years. There are new chapters that introduce important techniques such as DNA sequencing and gene editing and the applications of genetics in our modern world are covered in chapters describing topics as diverse as gene therapy and the use of ancient DNA to study prehistoric ecosystems. Key Features This book provides a molecular approach to the study of genetics. It is a highly accessible and well structured book with chapters organized into four parts to aid navigation. It presents high quality illustrations to elucidate the various concepts and mechanisms. Each chapter ends with a Key Concepts section which serves to summarize the most essential points. Self study questions enable the reader to assess their comprehension of chapter content and discussion topics facilitate a deeper understanding of the material by encouraging conversation and critical evaluation. Key terms are emboldened throughout the text and are listed at the end of each chapter and definitions can be found in the Glossary. For instructors who adopt the book an affiliated question bank is free to download. [Teacher's Guide to the Modern Biology Program](#) James Howard Otto, Albert Towle, Elizabeth H.

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