

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

Section 2 Review Modern Biology Answers

Maurice Bleifeld

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Modern Biology, 1991 Albert Towle, 1989 **Cells**, 1997 **Mathematics Catalog 2005** Neil Thomson, 2004-10

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