

MICROBIOLOGY

Quick Science Revision

Classification & Evolution of



Domain	Characteristics	Examples
Bacteria	Prokaryotic, unicellular, lack nucleus and membrane-bound organelles. Cell wall made of peptidoglycan.	Escherichia coli, Bacillus subtilis, Lactobacillus acidophilus
Eukarya	Eukaryotic, can be unicellular or multicellular. Have a nucleus and membrane-bound organelles. Cell wall (if present) is made of cellulose or chitin.	Humans, mushrooms, oak trees, amoebas
Archaea	Prokaryotic, unicellular. Often live in extreme environments (halophiles, thermophiles). Cell wall is made of pseudopeptidoglycan.	Halobacterium salinarum, Pyrodicticum ferrireducens

Evolution

- Life on Earth began as simple organic molecules.
- First life forms were simple prokaryotes.
- Over time, more complex organisms evolved.
- Evolution is driven by natural selection.
- Genetic variation is essential for evolution.
- Speciation occurs when populations become reproductively isolated.

Microscopy

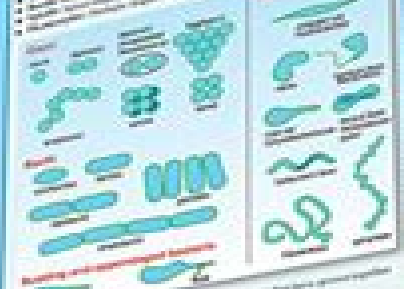
- Light microscope: can see cells and some organelles.
- Electron microscope: can see detailed structure of cells and organelles.
- Fluorescence microscope: can see specific molecules in cells.
- Confocal microscope: can create 3D images of cells.

Stains

- Gram stain: distinguishes between Gram-positive and Gram-negative bacteria.
- Acid-fast stain: identifies bacteria that resist decolorization.
- Endospore stain: identifies bacteria that form spores.
- Flagellar stain: identifies bacteria that have flagella.

Structure & Types of

Prokaryotic & Eukaryotic Cells: Structure & Growth Characteristics



Growth and Reproduction

- Prokaryotes: binary fission, rapid growth.
- Eukaryotes: mitosis, meiosis, slower growth.
- Environmental factors affect growth rate.
- Quorum sensing in bacteria.

Eukaryotic Types



Animal Cells

- Lack cell wall and large central vacuole.
- Have lysosomes and centrioles.

Plant Cells

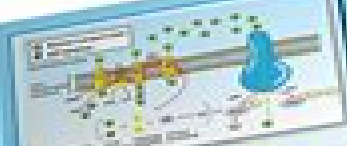
- Have cell wall and large central vacuole.
- Have chloroplasts.

Fungi Cells

- Have cell wall made of chitin.
- Have large central vacuole.

Viruses

Viruses are not considered living organisms as they lack the ability to reproduce on their own.



Cellular Processes

- Osmosis: movement of water across a membrane.
- Diffusion: movement of small molecules across a membrane.
- Active transport: movement of molecules against a concentration gradient.
- Photosynthesis: conversion of light energy into chemical energy.
- Cellular respiration: conversion of chemical energy into ATP.

Specialized Microorganisms

Microorganisms have specialized structures and functions for survival in different environments.

Microbial Growth

- Exponential growth: rapid increase in number.
- Stationary phase: growth rate slows down.
- Death phase: number of cells decreases.

Antibiotics

Antibiotics are drugs that kill or inhibit the growth of bacteria.

Antibiotic Resistance

- Bacteria can develop resistance to antibiotics.
- Overuse of antibiotics leads to resistance.
- New antibiotics are needed.

Genetics

Genetics is the study of heredity and the variation of inherited characteristics.

DNA

- Double helix structure.
- Contains genetic information.
- Replicates before cell division.

Protein Synthesis

Proteins are synthesized from amino acids using the instructions from DNA.

Enzymes

- Proteins that act as biological catalysts.
- Speed up chemical reactions.
- Are specific to their substrates.

Microbial Control

Methods to kill or inhibit the growth of microorganisms.

Antisepsis

- Reduction of the number of microorganisms.
- Used on living tissue.

Disinfection

- Killing or removing microorganisms.
- Used on non-living surfaces.

Sterilization

- Killing all microorganisms.
- Used for medical equipment.

Biotechnology

Use of microorganisms in industry and research.

Food Biotechnology

- Production of cheese, yogurt, beer.
- Food preservation.

Pharmaceutical Biotechnology

- Production of antibiotics, vaccines.
- Gene therapy.

Environmental Biotechnology

- Bioremediation.
- Waste treatment.

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Virginia Postrel



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