

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, amoeba, yeast
Archaea	Prokaryotic, unicellular. Often live in extreme environments (halophiles, thermophiles). Cell wall 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 leads to different adaptations.
- Speciation occurs when populations become reproductively isolated.

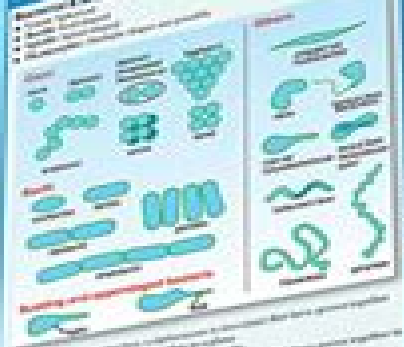
Microscopy

- 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.
- Phase-contrast microscope: can see live cells.

Stains

- Simple stain: uses a single dye to stain cells.
- Differential stain: uses two dyes to distinguish between different types of cells.
- Gram stain: used to identify bacteria based on their cell wall structure.

Structure & Types of



Structure and Reproduction

- Bacteria:** Reproduce asexually by binary fission. Some form spores for survival in harsh conditions.
- Fungi:** Reproduce both asexually (spores) and sexually (fruiting bodies).
- Protozoa:** Reproduce asexually by binary fission or sexually (alternation of generations).

Enzymes

- Proteins that act as biological catalysts.
- Lower the activation energy of a reaction.
- Specific to their substrates (lock and key model).
- Affected by temperature and pH.



Enzymes

- Enzymes are proteins that speed up chemical reactions.
- They are highly specific to their substrates.
- Factors affecting enzyme activity: temperature, pH, substrate concentration, enzyme concentration.

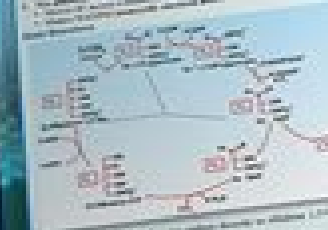
Viruses

- Not considered living organisms as they lack cellular structure.
- Consist of genetic material (DNA or RNA) surrounded by a protein coat (capsid).
- Reproduce by hijacking the host cell's machinery.



Photosynthesis

- Process by which plants and some bacteria convert light energy into chemical energy.
- Occurs in chloroplasts (plants) or thylakoids (bacteria).
- Light-dependent reactions: produce NADPH and O2.
- Calvin cycle: uses NADPH and CO2 to produce glucose.



Cellular Respiration

- Process by which cells convert glucose into energy (ATP).
- Occurs in mitochondria (eukaryotes) or cytoplasm (prokaryotes).
- Aerobic respiration: uses oxygen as the final electron acceptor.
- Anaerobic respiration: uses other molecules as the final electron acceptor.

Specialized Microorganisms

- Halophiles:** live in high salt environments.
- Thermophiles:** live in high temperature environments.
- Psychrophiles:** live in low temperature environments.
- Acidophiles:** live in acidic environments.

Microbiology

- Study of microorganisms and their interactions with the environment.
- Includes the study of bacteria, fungi, protozoa, and viruses.
- Applications in medicine, agriculture, and industry.

Microbiology in Medicine

- Understanding the role of microorganisms in disease.
- Development of vaccines and antibiotics.
- Study of the human microbiome.

Microbiology in Agriculture

- Use of beneficial microorganisms for soil fertility.
- Control of plant diseases and pests.
- Production of food products (e.g., cheese, yogurt).

Microbiology in Industry

- Production of chemicals and pharmaceuticals.
- Bioremediation: using microorganisms to clean up pollution.
- Food processing and preservation.

Microbiology in Environmental Science

- Study of the role of microorganisms in ecosystems.
- Biogeochemical cycles: carbon, nitrogen, sulfur.
- Climate change and the role of microorganisms.

Microbiology in Biotechnology

- Use of microorganisms in genetic engineering.
- Production of recombinant proteins.
- Development of new materials and drugs.

Microbiology in Space Exploration

- Search for life on other planets.
- Study of the effects of space on microorganisms.
- Development of life support systems for space travel.

Microbiology in Forensic Science

- Use of microorganisms to identify suspects and victims.
- Study of the role of microorganisms in crime scene investigation.
- Development of forensic microbiology techniques.

Microbiology in Food Science

- Study of food spoilage and preservation.
- Production of fermented foods and beverages.
- Development of food safety and quality control measures.

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