

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, plants, fungi, protists
Archaea	Prokaryotic, unicellular. Often live in extreme environments (halophiles, thermophiles). Cell wall made of pseudopeptidoglycan.	Halobacterium salinarum, Pyrodicticum ferrireducens

Evolution

- Life on Earth began around 3.5 billion years ago.
- The first life forms were simple molecules like water, methane, and ammonia.
- Over time, these molecules combined to form more complex organic molecules like proteins and nucleic acids.
- The first cells were simple, single-celled organisms like bacteria.
- Over time, these cells evolved into more complex organisms like plants and animals.

Microscopy

- Microscopes are used to study small organisms and structures.
- There are two main types of microscopes: light microscopes and electron microscopes.
- Light microscopes use visible light to illuminate the specimen.
- Electron microscopes use a beam of electrons to illuminate the specimen.

Stains

- Stains are used to make microorganisms easier to see under a microscope.
- There are two main types of stains: simple stains and differential stains.
- Simple stains use a single dye to color the specimen.
- Differential stains use two different dyes to distinguish between different types of microorganisms.

Structure & Types of

Prokaryotic & Eukaryotic Cells Structure & Growth Characteristics



Prokaryotic Cells

- Simple structure with a cell wall, cell membrane, and a single circular DNA molecule.
- Reproduce rapidly by binary fission.
- Examples: Bacteria, Archaea.

Eukaryotic Cells

- Complex structure with a nucleus, various organelles, and multiple linear DNA molecules.
- Reproduce more slowly by mitosis or meiosis.
- Examples: Plants, Animals, Fungi, Protists.



Growth Characteristics

- Prokaryotic cells grow rapidly, often in exponential phase.
- Eukaryotic cells grow more slowly, often in a more regulated manner.

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Cell Membrane Structure & Function

- The cell membrane is a phospholipid bilayer with various proteins embedded in it.
- It controls the movement of molecules in and out of the cell.
- It is involved in cell signaling and communication.



Cell Wall Structure & Function

- The cell wall is a rigid layer outside the cell membrane, made of various materials like cellulose, chitin, or peptidoglycan.
- It provides structural support and protection for the cell.
- It is involved in cell growth and division.



Nucleus Structure & Function

- The nucleus is a large, spherical organelle with a nuclear envelope and a nucleolus inside.
- It contains the cell's genetic material (DNA).
- It is involved in cell growth and division.

Microscopy

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Microbiology

- The study of microorganisms and their interactions with the environment.
- Microorganisms are small organisms that can only be seen with a microscope.
- They include bacteria, viruses, fungi, and protists.
- Microbiology is a branch of biology that deals with the study of these organisms.

Microbiology in Medicine

- Microbiology plays a crucial role in understanding and treating diseases.
- Many diseases are caused by microorganisms, such as bacteria, viruses, and fungi.
- Microbiologists study these organisms to develop vaccines and treatments.

Microbiology in Agriculture

- Microorganisms are essential for soil fertility and plant growth.
- They help in the decomposition of organic matter and the recycling of nutrients.
- Microbiologists study these organisms to improve agricultural practices.

Microbiology in Industry

- Microorganisms are used in various industrial processes, such as food production and biotechnology.
- They are used to produce antibiotics, enzymes, and other useful products.
- Microbiologists study these organisms to optimize industrial processes.

Microbiology in Environmental Science

- Microorganisms play a key role in the environment, particularly in the carbon and nitrogen cycles.
- They help in the decomposition of organic matter and the recycling of nutrients.
- Microbiologists study these organisms to understand environmental processes.

Microbiology in Biotechnology

- Microorganisms are used in biotechnology to produce various products, such as drugs and biofuels.
- They are used in genetic engineering and other advanced technologies.
- Microbiologists study these organisms to develop new biotechnological applications.

Microbiology in Forensic Science

- Microbiology is used in forensic science to identify and analyze evidence.
- It helps in the investigation of crimes and the identification of suspects.
- Microbiologists study these organisms to develop forensic techniques.

Microbiology in Space Exploration

- Microbiology is a key area of research in space exploration, particularly in the search for life on other planets.
- It helps in understanding the potential for life in extreme environments.
- Microbiologists study these organisms to develop space exploration technologies.

Microbiology in Public Health

- Microbiology is essential for public health, particularly in the prevention and control of infectious diseases.
- It helps in the development of vaccines and the implementation of infection control measures.
- Microbiologists study these organisms to improve public health outcomes.

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Frank Miskevich (PhD)



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