



Microbiology

INTRODUCTION

Microbiology is the study of organisms that are visible only with a microscope.

HISTORY OF MICROBIOLOGY

- Robert Hooke:** first described cells in 1665 when he used a microscope to observe a slice of cork.
- Anton van Leeuwenhoek:** discovered microscopic life forms in droplets of pond water and on his teeth. In 1683, he called these organisms "animalcules."
- Louis Pasteur:**
 - identified microorganisms as the cause of alcoholic fermentation and curing dairy products.
 - improved the theory of spontaneous generation—the idea that organisms may arise from lifeless matter, such as beef soup.
 - proposed the **germ theory of disease**, which states that microorganisms cause infectious diseases.

- Developed immunization techniques.
- Robert Koch:** proved Pasteur's germ theory of disease through experiments with cattle, anthrax, and cholera, and coined the **Koch's postulates**.

- The same microorganisms are observed in every case of the disease.
- The microorganisms are isolated and cultured outside the body of the sick animal.
- The microorganism is injected into a healthy animal of the same species, causing the same illness.
- An identical microorganism is isolated from the newly sick animal.



THE CELL THEORY

Every living organism is made up of cells, which are the lowest level of structure capable of performing all the activities of life. All cells arise from preexisting cells.

PROKARYOTIC VS. EUKARYOTIC MICROORGANISMS

Several cell components exist in all types of cells.

- Cell membrane:** serves as an external barrier and protects organelles.
 - The basic unit is a **phospholipid molecule**, with a polar phosphate group as its hydrophilic head and two non-polar fatty acid chains as hydrophobic tails.
 - Individual phospholipids form a fluid **phospholipid bilayer**, with hydrophilic heads facing out, and hydrophobic tails facing in to form a bilayer (one that separates the watery cell exterior from the watery cytoplasmic environment).
 - Cell membranes are **semipermeable**, allowing passage of gases, liquids, and small polar molecules. Cell membranes are not permeable to charged molecules (ions and proteins) and large polar molecules.
- Membrane proteins:** protein molecules embedded in the lipid bilayer. Membranes unable to cross the membrane easily, depend on biologically important reactions, and interact with membranes of neighboring cells.
- Cytoplasm:** a semifluid medium called **cytosol** and all the organelles inside the plasma membrane but outside the nucleus.
- Cytoskeleton:** system of protein filaments in the cytoplasm

including **microtubules** and **microfilaments** that gives the cell shape and helps direct movement.

- Ribosomes:** proteins that work with RNA to synthesize polypeptides.

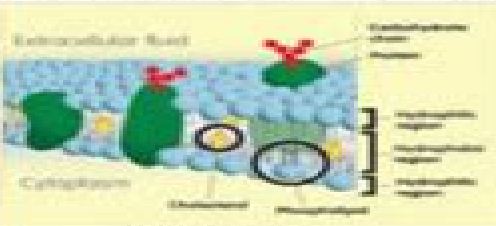
PROKARYOTES

The simplest prokaryotic organisms are the smallest cells to evolve (**bacteria**). They have **characteristics** that make them different from eukaryotes.

- Genetic material:** located in a concentrated but unbounded region called the **nucleoid**.
- No membrane-bound organelles.**

EUKARYOTES

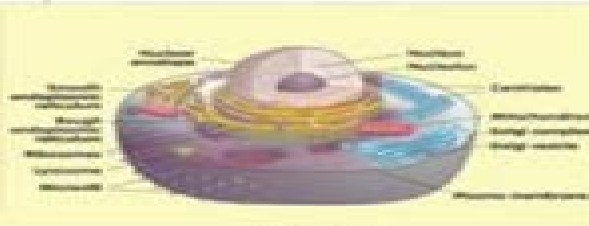
Found in unicellular organisms and multicellular plants and animals, eukaryotic organisms have a nucleus and other membrane-bound organelles, each of which performs a specific function and increases efficiency.



CELL MEMBRANE



PLANT CELL



ANIMAL CELL

METABOLISM

CELLULAR RESPIRATION

Cellular process of oxidizing glucose or food molecules to obtain energy in the form of **adenosine triphosphate (ATP)**.

GLYCOLYSIS

The oldest metabolic pathway, used by all cells, and a precursor to both the aerobic and anaerobic respiratory pathways. Glycolysis occurs in the cytoplasm. The six-carbon sugar glucose is degraded to two three-carbon molecules, resulting in two NADH and two net ATP.

FERMENTATION

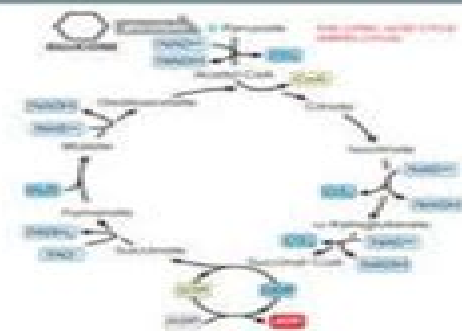
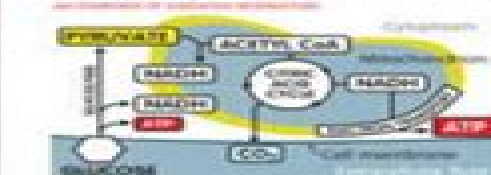
In the absence of oxygen, respiration relies on glycolysis to produce ATP. The **anaerobic** process uses an organic molecule to accept the electrons from NADH and returns NAD⁺ for glycolysis to run again. Much energy remains in bonds of the products, such as ethanol or lactic acid. Three types of fermentation exist.

- Homofermentation:** bacteria converts pyruvate to lactic acid.
- Allofermentation:** yeast and bacteria convert pyruvate into ethanol and CO₂.
- Heterofermentation:** organisms produce lactic acid as well as other acids and alcohols.

Oxidative Respiration

If oxygen is present, glycolysis leads to **aerobic** respiration, which produces a net total of 36 ATP per molecule of glucose.

- Oxidation of pyruvate:** Carbon dioxide splits off from pyruvate to produce acetyl-CoA and NADH.
- Citric acid cycle (Krebs cycle):** begins with acetyl-CoA joining molecules and to form citrate acid, which is oxidized to CO₂, yielding ATP, NADH, and FADH₂. Oxidizable acid is regenerated for another cycle. Occurs in the mitochondrial matrix and the cytoplasm of aerobic prokaryotes.



Microbiology Sparkcharts

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