

ANATOMY & PHYSIOLOGY

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HUMAN ANATOMY AND PHYSIOLOGY

Body Plan: Bilateral symmetry, Cephalization, Coelom, Segmentation, Metamerism

Primary:
The human body is a complex of many parts.

Physiology:
The study of the functions of the parts of the human body.

Structural basis:
The study of the structure of the parts of the human body.

- **Cell:** The basic unit of life.
- **Tissue:** A group of cells that work together to perform a specific function.
- **Organ:** A structure made up of different tissues that work together to perform a specific function.
- **System:** A group of organs that work together to perform a specific function.

CELL AND TISSUE

Cell:
The basic unit of life. It is a small, self-contained unit that can perform all the functions of life.

Types of cells:
• **Prokaryotic cells:** These cells lack a nucleus and other membrane-bound organelles. They are found in bacteria and archaea.

Eukaryotic cells:
These cells have a nucleus and other membrane-bound organelles. They are found in plants, animals, and fungi.

Plant cells:
• **Cell wall:** A rigid layer that surrounds the cell and provides structural support.

Animal cells:
• **Centrioles:** Two cylindrical structures that are involved in cell division.

Microvilli:
Small, hair-like projections that increase the surface area of a cell.

NERVOUS SYSTEM

Brain:
The central control center of the body. It is made up of billions of neurons that communicate with each other to control the body's functions.

Types of neurons:
• **Sensory neurons:** These neurons carry information from the receptors to the brain.

Motoneurons:
These neurons carry information from the brain to the muscles and glands.

Interneurons:
These neurons are found in the brain and spinal cord. They connect sensory neurons to motoneurons.

Brain regions:
• **Cerebrum:** The largest part of the brain, responsible for higher-level functions such as thought, memory, and language.

Cerebellum:
A smaller part of the brain, responsible for coordination and balance.

Brainstem:
The base of the brain, responsible for basic life functions such as breathing and heart rate.

RESPIRATORY SYSTEM

Lungs:
The organs responsible for gas exchange. They are made up of millions of small air sacs called alveoli.

Types of respiration:
• **Aerobic respiration:** This process uses oxygen to break down glucose and produce energy. It occurs in the mitochondria of cells.

Anaerobic respiration:
This process does not use oxygen. It produces less energy than aerobic respiration and can only last for a short time.

Gas exchange:
The process of taking in oxygen and getting rid of carbon dioxide. It occurs in the lungs and in the cells of the body.

Diaphragm:
A muscle that contracts and relaxes to help with breathing. When it contracts, it moves down, increasing the volume of the chest cavity and drawing air into the lungs.

Rib cage:
A structure of ribs that protects the lungs and heart. It also helps with breathing by expanding and contracting.

NERVOUS SYSTEM

Neurons:
The cells that make up the nervous system. They are responsible for carrying information from one part of the body to another.

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