

ANATOMY & PHYSIOLOGY

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HUMAN ANATOMY AND PHYSIOLOGY

Study of the human organism and its internal body



Anatomy

The study of the structure of the human body and its parts.

Physiology

The study of the function of the human body and its parts.

Structural levels

Studying the human body at the different levels of structure and function.

- 1. Chemical level: study of the chemical composition of the body.
- 2. Cellular level: study of the structure and function of cells.
- 3. Tissue level: study of the structure and function of tissues.
- 4. Organ level: study of the structure and function of organs.
- 5. System level: study of the structure and function of body systems.
- 6. Organism level: study of the structure and function of the whole body.

CELLS AND TISSUES

Cells are the basic units of structure and function of the body.



Composition of cellular fluids

Cells are composed of various fluids.

Extracellular fluid: fluid outside the cell.

Intracellular fluid: fluid inside the cell.

Interstitial fluid: fluid between cells.

Blood plasma: fluid part of blood.

Lymph: fluid in lymphatic system.

Transcellular fluid: fluid in body cavities.



The nucleus is the control center of the cell.

It contains the genetic material (DNA).

It is surrounded by a nuclear envelope.

It contains nucleoli.

It is the site of ribosome synthesis.

It is the site of RNA synthesis.

It is the site of protein synthesis.

ORGANS

Organs are structures made of different tissues.

They perform specific functions in the body.

Example: Heart pumps blood.

Example: Lungs exchange gases.

Example: Stomach digests food.

Organ systems

Organ systems are groups of organs.

They work together to perform a function.

Example: Digestive system.

Example: Circulatory system.

Example: Respiratory system.

Example: Nervous system.

Example: Endocrine system.

Example: Reproductive system.

Example: Integumentary system.

Example: Musculoskeletal system.

Example: Immune system.

Example: Sensory system.

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NERVOUS SYSTEM

Neurons

Neurons are the basic units of the nervous system.

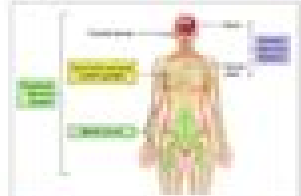
They transmit electrical impulses.

Example: Motor neurons.

Example: Sensory neurons.

Example: Interneurons.

Example: Glial cells.



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Example: Schwann cells.

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