

ANATOMY & PHYSIOLOGY

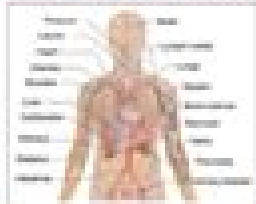
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HUMAN ANATOMY AND PHYSIOLOGY

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 structural level involves understanding the following levels:

- 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. **Whole body level** - study of the structure and function of the entire human body.

CELLS AND TISSUES

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



Composition of cellular fluids

Cells are composed of various fluids, including:

- 1. **Intracellular fluid** - fluid inside the cell.
- 2. **Extracellular fluid** - fluid outside the cell.
- 3. **Interstitial fluid** - fluid between cells.
- 4. **Plasma** - fluid in the blood.
- 5. **Lymph** - fluid in the lymphatic system.

The fluid inside the cell is called intracellular fluid, and the fluid outside the cell is called extracellular fluid.



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Cellular level

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ORGANS

Organs are structures made up of different types of tissues that perform a specific function.

Organs are composed of different types of tissues, including:

- 1. **Epithelial tissue** - covers the body and organs.
- 2. **Connective tissue** - supports and connects other tissues.
- 3. **Muscle tissue** - contracts to produce movement.
- 4. **Nervous tissue** - transmits electrical signals.

Organ systems

Organ systems are groups of organs that work together to perform a specific function.

Organ systems are composed of different types of organs, including:

- 1. **Cardiovascular system** - pumps blood throughout the body.
- 2. **Respiratory system** - takes in oxygen and removes carbon dioxide.
- 3. **Digestive system** - breaks down food into nutrients.
- 4. **Excretory system** - removes waste from the body.
- 5. **Reproductive system** - produces offspring.



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Systemic level

Systemic level is the study of the function of the human body as a whole.

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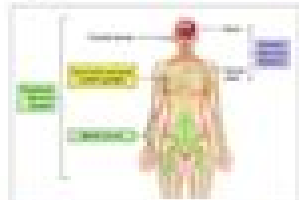
NERVOUS SYSTEM

Neurons

Neurons are the basic units of the nervous system.

Neurons are composed of different parts, including:

- 1. **Cell body** - contains the nucleus and other organelles.
- 2. **Dendrites** - receive signals from other neurons.
- 3. **Axon** - carries signals away from the cell body.
- 4. **Myelin sheath** - covers the axon and insulates it.
- 5. **Synapse** - the point where two neurons meet.



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NERVOUS SYSTEM

The nervous system is responsible for controlling and coordinating the body's activities.



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Frank R. Spellman



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