

ANATOMY & PHYSIOLOGY

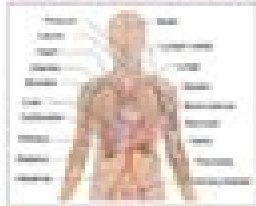
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HUMAN ANATOMY AND PHYSIOLOGY

Study of the human organism and its internal body



Anatomy

The study of the structure of the human body and its internal organs.

Physiology

The study of the function of the human body and its internal organs.

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 systems.
- 6. **Organism level** - study of the structure and function of the whole organism.

CELLS AND TISSUES

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

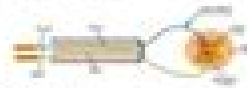


Composition of cellular fluids

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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ORGANS

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

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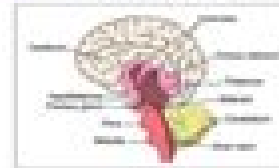
- 1. **Epithelial tissue** - covers the body and organs.
- 2. **Connective tissue** - supports and connects other tissues.
- 3. **Muscle tissue** - contracts to produce movement.
- 4. **Nervous tissue** - transmits electrical signals.

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.



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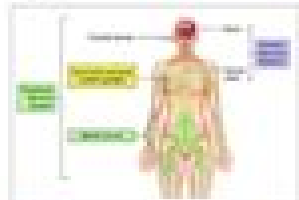
NERVOUS SYSTEM

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** - insulates the axon.



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NERVOUS SYSTEM

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

The nervous system is composed of different parts, including:

- 1. **Brain** - the central control center.
- 2. **Spinal cord** - carries signals between the brain and the rest of the body.
- 3. **Nerves** - carry signals between the brain, spinal cord, and the rest of the body.



Parts of the nervous system

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ORGAN SYSTEMS OF THE BODY

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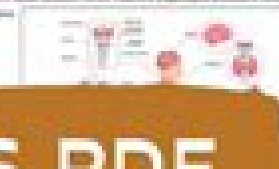
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web jun 14 2015 this list of electron configurations of elements contains all the elements in increasing order of atomic number to save room the configurations are in noble gas shorthand this means part of the electron configuration has been replaced with the element symbol of the noble gas symbol

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web elements in the second row of the periodic table place their electrons in the $2n$ shell as well as the $1n$ shell for instance

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