

ANATOMY & PHYSIOLOGY

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HUMAN ANATOMY AND PHYSIOLOGY

Study of the structure and function of the human body



Anatomy
The study of the structure of the human body

Physiology
The study of the function of the human body

Structural levels
The study of the human body at the level of the molecule, cell, tissue, organ, and system

- 1. Molecular level
- 2. Cellular level
- 3. Tissue level
- 4. Organ level
- 5. System level
- 6. Organism level

CELLS AND TISSUES

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



Characteristics of animal cells
1. They are eukaryotic cells
2. They have a nucleus
3. They have a cell membrane
4. They have a cytoplasm
5. They have a Golgi apparatus
6. They have a lysosome
7. They have a mitochondrion
8. They have a vacuole



The nucleus - The control center of the cell
1. It contains the genetic material (DNA)
2. It is surrounded by a nuclear envelope
3. It has a nucleolus
4. It has a nuclear pore

NERVOUS SYSTEM

The nervous system is the body's communication system



Structure of the nervous system
1. Central nervous system (CNS)
2. Peripheral nervous system (PNS)

Neurons - The basic units of the nervous system
1. They are specialized cells that transmit information
2. They have a cell body, dendrites, and an axon
3. They are connected to each other by synapses

MUSCLES

Muscles are specialized tissues that contract to produce movement



Characteristics of muscle tissue
1. Excitability
2. Contractility
3. Extensibility
4. Elasticity

Types of muscle tissue
1. Skeletal muscle
2. Cardiac muscle
3. Smooth muscle

REPRODUCTION

Reproduction is the process by which new individuals are produced



Reproductive system
The system of organs that produce and transport gametes

Male reproductive system
1. Testis
2. Epididymis
3. Vas deferens
4. Utricle
5. Seminal vesicle
6. Prostate gland
7. Urethra
8. Penis

IMMUNE SYSTEM

The immune system is the body's defense system



Types of immune cells
1. White blood cells
2. Macrophages
3. T cells
4. B cells
5. Natural killer cells

Antibodies - Proteins that bind to antigens
1. They are produced by B cells
2. They are used to identify and destroy pathogens

ENDOCRINE SYSTEM

The endocrine system is the body's chemical communication system



Major glands of the endocrine system
1. Hypothalamus
2. Pituitary gland
3. Thyroid gland
4. Adrenal gland
5. Pancreas
6. Ovaries
7. Testes

Hormones - Chemical messengers that regulate the body's functions
1. They are produced by the endocrine glands
2. They travel through the bloodstream to target cells

RESPIRATORY SYSTEM

The respiratory system is the body's gas exchange system



Parts of the respiratory system
1. Trachea
2. Bronchi
3. Bronchioles
4. Alveoli

Gas exchange
1. Oxygen enters the body through the lungs
2. Carbon dioxide leaves the body through the lungs

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