

ANATOMY & PHYSIOLOGY

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HUMAN ANATOMY AND PHYSIOLOGY

Study of the structure and function of the human body



Anatomy

The scientific study of the structure of the human body

Physiology

The scientific study of the function of the human body

Structural levels

Also known as the levels of organization of the human body

- 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



Organization of cellular levels

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

Cells are organized into tissues, which are groups of similar cells that work together to perform a specific function

Tissues are organized into organs, which are groups of different tissues that work together to perform a specific function

Organs are organized into systems, which are groups of different organs that work together to perform a specific function

Systems are organized into the whole body, which is the organism



The Epithelium - This is the outermost layer of the body. It is composed of cells that are closely packed together. It is the first line of defense against the environment.

Connective tissue - This is the tissue that holds the body together. It is composed of cells that are loosely packed together.

Blood - This is the fluid that circulates in the body. It is composed of red blood cells, white blood cells, and platelets.

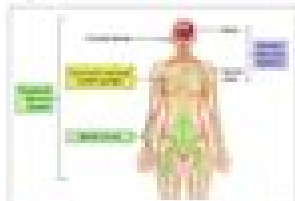
Muscle - This is the tissue that contracts to move the body. It is composed of long, striated cells.

Nerve - This is the tissue that carries electrical impulses. It is composed of long, thin cells.

RESPIRATORY SYSTEM

Functions

- 1. Ventilation - The process of moving air in and out of the lungs
- 2. Diffusion - The process of exchanging gases between the lungs and the blood
- 3. Gas exchange - The process of exchanging gases between the blood and the cells
- 4. Regulation of pH - The process of maintaining the pH of the blood
- 5. Regulation of temperature - The process of maintaining the temperature of the body



Structure

The respiratory system is composed of the trachea, bronchi, bronchioles, and alveoli

The trachea is the windpipe, which carries air from the lungs to the rest of the body

The bronchi are the main airways, which branch out from the trachea

The bronchioles are the smaller airways, which branch out from the bronchi

The alveoli are the tiny air sacs, where gas exchange takes place

NERVOUS SYSTEM

The nervous system is the body's communication system



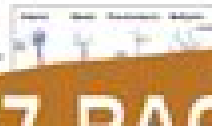
Types of neurons

There are three main types of neurons: sensory, motor, and interneurons

Sensory neurons carry information from the receptors to the brain

Motor neurons carry information from the brain to the effectors

Interneurons carry information between sensory and motor neurons



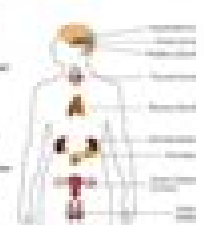
EXCRETORY SYSTEM

- 1. Filtration - The process of removing waste from the blood
- 2. Reabsorption - The process of returning useful substances to the blood
- 3. Secretion - The process of removing waste from the blood
- 4. Excretion - The process of removing waste from the body



ENDOCRINE SYSTEM

- 1. Hormones - Chemical messengers that travel through the blood to target organs
- 2. Regulation - The process of controlling the body's internal environment
- 3. Growth - The process of increasing the size of the body
- 4. Metabolism - The process of converting food into energy
- 5. Reproduction - The process of producing offspring



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