

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 cellular, tissue, organ, and system levels

- 1. **Cellular level** - study of the structure and function of cells
- 2. **Tissue level** - study of the structure and function of tissues
- 3. **Organ level** - study of the structure and function of organs
- 4. **System level** - study of the structure and function of systems
- 5. **Whole body 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 human body



Characteristics of cells

All cells are eukaryotic and have a nucleus

Cells are specialized for their function

Cells are surrounded by a cell membrane

Cells are connected to each other

Cells are constantly changing



The **epithelium** is the outermost layer of cells that covers the body

Epithelial cells are specialized for their function

Epithelial cells are connected to each other

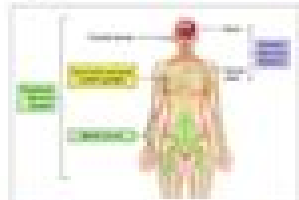
Epithelial cells are constantly changing

Epithelial cells are surrounded by a basement membrane

NERVOUS SYSTEM

Functions

- 1. **Control** - the nervous system controls the body's activities
- 2. **Integration** - the nervous system integrates information from the body and the environment
- 3. **Communication** - the nervous system communicates with other parts of the body
- 4. **Response** - the nervous system responds to stimuli



Structure

The nervous system is composed of the brain and the spinal cord

The brain is the control center of the nervous system

The spinal cord is the communication pathway between the brain and the rest of the body

Nerves are bundles of axons that carry signals between the brain and the rest of the body

Neurons are the basic units of the nervous system

UNIT OF MEASUREMENT

The unit of measurement for length is the meter



Types of neurons

There are three types of neurons

1. **Sensory neurons** - carry signals from the body to the brain

2. **Motor neurons** - carry signals from the brain to the body

3. **Interneurons** - carry signals between the brain and the body



ORGAN SYSTEMS OF THE BODY

The body is composed of several organ systems

1. **Integumentary system** - the skin

2. **Musculoskeletal system** - the muscles and bones

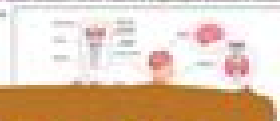
3. **Cardiovascular system** - the heart and blood vessels

4. **Respiratory system** - the lungs

5. **Digestive system** - the stomach and intestines

6. **Excretory system** - the kidneys

7. **Reproductive system** - the organs that produce offspring



ENDOCRINE SYSTEM

- 1. **Control** - the endocrine system controls the body's activities
- 2. **Integration** - the endocrine system integrates information from the body and the environment
- 3. **Communication** - the endocrine system communicates with other parts of the body
- 4. **Response** - the endocrine system responds to stimuli



The endocrine system is composed of the major glands

1. **Pituitary gland** - the master gland

2. **Thyroid gland** - the gland that controls metabolism

3. **Adrenal gland** - the gland that produces adrenaline

4. **Testes** - the glands that produce testosterone

5. **Ovaries** - the glands that produce estrogen

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