

ANATOMY & PHYSIOLOGY

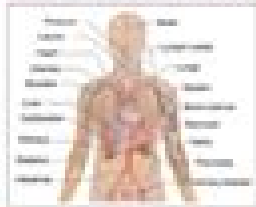
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HUMAN ANATOMY AND PHYSIOLOGY

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

It is made up of cells that are closely packed together

Epithelial cells are specialized for their function

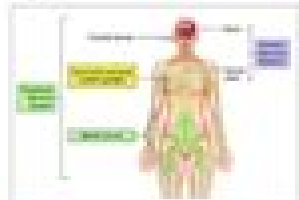
They are constantly changing and are surrounded by a cell membrane

Epithelial cells are connected to each other

NERVOUS SYSTEM

Functions

- 1. **Control** - the nervous system controls the body's functions
- 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 made up of the brain, spinal cord, and nerves

The brain is the control center of the nervous system

The spinal cord is the main pathway for information between the brain and the rest of the body

Nerves are bundles of axons that carry information between the brain, spinal cord, and the rest of the body

UNIT OF MEASUREMENT

The unit of measurement for length is the meter



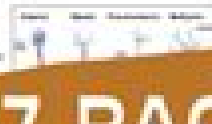
Types of neurons

There are three types of neurons

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

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

3. **Interneurons** - carry information between sensory and motor neurons



ORGAN SYSTEMS OF THE BODY

The body is made up of many organ systems that work together to maintain life

Each organ system has a specific function

The organ systems work together to maintain the body's internal environment

The organ systems work together to respond to changes in the environment

The organ systems work together to maintain the body's health

The organ systems work together to maintain the body's life



ENDOCRINE SYSTEM

- 1. **Control** - the endocrine system controls the body's functions
- 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

Structure and function

The endocrine system is made up of the following glands:

1. **Pituitary gland** - the master gland of the endocrine system

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

6. **Parathyroid glands** - the glands that control calcium levels

7. **Islets of Langerhans** - the glands that produce insulin



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