

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 parts.

Physiology

The study of the function of the human body and its parts.

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 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.



Composition of animal cells

Animal cells are composed of the following structures:

- 1. **Cell membrane** - the outer boundary of the cell.
- 2. **Nucleus** - the control center of the cell.
- 3. **Mitochondrion** - the power house of the cell.
- 4. **Golgi apparatus** - the sorting and packaging center of the cell.
- 5. **Endoplasmic reticulum** - the site of protein synthesis and transport.
- 6. **Lysosome** - the site of cellular digestion.
- 7. **Peroxisome** - the site of lipid metabolism.
- 8. **Centriole** - the site of cell division.



The **axoplasm** is the cytoplasm of the axon. It is a specialized form of cytoplasm that is responsible for the transport of materials along the axon.

Neurons

Neurons are the basic units of the nervous system.

They are composed of the following parts:

- 1. **Cell body** - the control center of the neuron.
- 2. **Dendrites** - the receptive parts of the neuron.
- 3. **Axon** - the conductive part of the neuron.
- 4. **Myelin sheath** - the insulating layer around the axon.
- 5. **Axon terminal** - the end of the axon where it connects to another neuron.

ORGANS

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

Examples of organs include the heart, lungs, stomach, and liver.

Organs are made up of different tissues that work together to perform a specific function.

Examples of tissues include muscle, nerve, and epithelial tissue.

Organs are made up of different tissues that work together to perform a specific function.

Organ systems

Organ systems are made up of different organs that work together to perform a specific function.

Examples of organ systems include the digestive system, respiratory system, and circulatory system.

Organ systems are made up of different organs that work together to perform a specific function.

Examples of organs include the heart, lungs, stomach, and liver.

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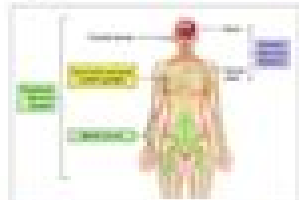
NERVOUS SYSTEM

Neurons

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They are composed of the following parts:

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Neuroglia

Neuroglia are the supporting cells of the nervous system.

They are composed of the following types:

- 1. **Ependymal cells** - the cells that line the ventricles of the brain and the central canal of the spinal cord.
- 2. **Astrocytes** - the cells that provide structural support and regulate the chemical environment of the brain.
- 3. **Oligodendrocytes** - the cells that produce myelin in the central nervous system.
- 4. **Microglia** - the cells that act as macrophages in the central nervous system.
- 5. **Schwann cells** - the cells that produce myelin in the peripheral nervous system.

Neurotransmitters

Neurotransmitters are chemical messengers that transmit signals between neurons.

They are released from the axon terminal of a neuron and bind to receptors on the dendrite of another neuron.

Examples of neurotransmitters include acetylcholine, dopamine, and serotonin.

FUNCTIONS OF NEURONS

Neurons have three main functions:

1. **Reception** - receiving information from the environment or other neurons.

2. **Integration** - processing the information received.

3. **Conduction** - transmitting the information to other neurons or effectors.



Types of neurons

There are three main types of neurons:

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

2. **Motor neurons** - neurons that carry information from the brain to the muscles and glands.

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



ORGAN SYSTEMS OF THE BODY

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ENDOCRINE SYSTEM

- 1. **Endocrine system** - the system of glands that secrete hormones into the bloodstream.
- 2. **Hormones** - chemical messengers that travel through the bloodstream to target organs.
- 3. **Target organs** - organs that are affected by hormones.
- 4. **Endocrine glands** - glands that secrete hormones.
- 5. **Exocrine glands** - glands that secrete substances into ducts.
- 6. **Endocrine system** - the system of glands that secrete hormones into the bloodstream.
- 7. **Hormones** - chemical messengers that travel through the bloodstream to target organs.
- 8. **Target organs** - organs that are affected by hormones.
- 9. **Endocrine glands** - glands that secrete hormones.
- 10. **Exocrine glands** - glands that secrete substances into ducts.

Major endocrine glands

The major endocrine glands are:

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

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

3. **Thyroid gland** - the gland that produces thyroid hormones.

4. **Parathyroid glands** - the glands that produce parathyroid hormone.

5. **Adrenal glands** - the glands that produce adrenal hormones.

6. **Testes** - the glands that produce male sex hormones.

7. **Ovaries** - the glands that produce female sex hormones.

8. **Pancreas** - the gland that produces insulin.

9. **Gonads** - the glands that produce sex hormones.

10. **Endocrine system** - the system of glands that secrete hormones into the bloodstream.

11. **Hormones** - chemical messengers that travel through the bloodstream to target organs.

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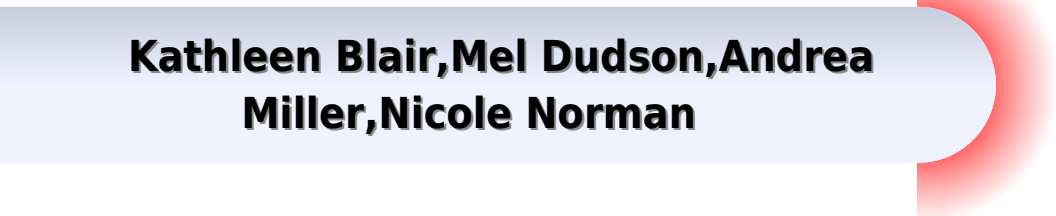
17. **Target organs** - organs that are affected by hormones.



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Anatomy Exam Study Guide And Answers

**Kathleen Blair, Mel Dudson, Andrea
Miller, Nicole Norman**



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