

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. **Whole body level** - study of the structure and function of the entire human body.

CELLS AND TISSUES

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



Composition of cellular fluids

Cells are composed of various fluids, including:

- 1. **Intracellular fluid** - fluid inside the cell.
- 2. **Extracellular fluid** - fluid outside the cell.
- 3. **Interstitial fluid** - fluid between cells.
- 4. **Transcellular fluid** - fluid within body cavities.



The **axoplasm** is the fluid inside the axon. It is composed of various fluids, including:

- 1. **Endoplasmic reticulum** - fluid inside the endoplasmic reticulum.
- 2. **Golgi apparatus** - fluid inside the Golgi apparatus.
- 3. **Lysosomes** - fluid inside lysosomes.
- 4. **Peroxisomes** - fluid inside peroxisomes.

ORGANS

Organs are structures composed of two or more tissues that work together to perform a specific function.

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

Organs are composed of various tissues, including:

- 1. **Epithelial tissue** - covers the body and organs.
- 2. **Connective tissue** - supports and connects other tissues.
- 3. **Muscle tissue** - contracts to produce movement.
- 4. **Nervous tissue** - transmits electrical signals.

Organ systems

Organ systems are groups of organs that work together to perform a specific function.

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



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Organ systems are composed of various organs, including:

1. **Mouth** - the opening of the digestive tract.

2. **Salivary glands** - produce saliva to aid in digestion.

3. **Esophagus** - the tube that carries food from the mouth to the stomach.

4. **Stomach** - the organ that breaks down food into smaller pieces.

5. **Small intestine** - the long tube where most digestion and absorption occurs.

6. **Large intestine** - the tube that absorbs water and electrolytes from the remaining food.

7. **Rectum** - the final part of the digestive tract.

8. **Anus** - the opening of the digestive tract to the outside.

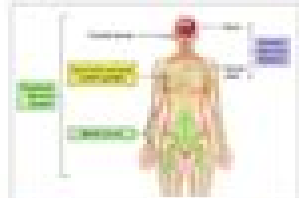
NERVOUS SYSTEM

Neurons

Neurons are the basic units of the nervous system.

They are composed of various parts, including:

- 1. **Cell body** - contains the nucleus and other organelles.
- 2. **Dendrites** - receive signals from other neurons.
- 3. **Axon** - carries signals away from the cell body.
- 4. **Myelin sheath** - insulates the axon and speeds up signal transmission.



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NERVOUS SYSTEM

The nervous system is composed of various parts, including:

1. **Brain** - the control center of the nervous system.

2. **Spinal cord** - the central part of the nervous system.

3. **Peripheral nerves** - the network of nerves that carries signals to and from the rest of the body.



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5. **Axon terminals** - release neurotransmitters to communicate with other neurons.

6. **Synapse** - the junction between two neurons.

7. **Neurotransmitter** - the chemical messenger that carries signals between neurons.

8. **Receptor** - the structure that receives signals from neurotransmitters.

9. **Effector** - the structure that carries out the response to a signal.

10. **Feedback loop** - the process by which the body maintains balance.

11. **Homeostasis** - the state of balance in the body.

12. **Stimulus** - the event that triggers a response.

13. **Response** - the reaction to a stimulus.

14. **Control center** - the part of the nervous system that coordinates the response.

15. **Effectors** - the structures that carry out the response.

ORGAN SYSTEMS OF THE BODY

The human body is composed of various organ systems, including:

1. **Digestive system** - breaks down food into nutrients.

2. **Circulatory system** - transports blood throughout the body.

3. **Respiratory system** - takes in oxygen and releases carbon dioxide.

4. **Excretory system** - removes waste from the body.

5. **Reproductive system** - produces offspring.

6. **Immune system** - defends the body against disease.

7. **Nervous system** - controls the body's actions.

8. **Endocrine system** - produces hormones.

9. **Musculoskeletal system** - provides structure and movement.

10. **Integumentary system** - covers the body and protects it from the environment.

11. **Sensory system** - receives information from the environment.

12. **Motor system** - carries out the response to a stimulus.

13. **Homeostatic system** - maintains balance in the body.

14. **Stimulus-response system** - reacts to changes in the environment.

15. **Feedback system** - regulates the body's functions.

16. **Control system** - coordinates the body's actions.

17. **Effectors** - carry out the response to a stimulus.

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11. **Peripheral nerves** - the network of nerves that carries signals to and from the rest of the body.

12. **Heart** - the organ that pumps blood throughout the body.

13. **Lungs** - the organs that take in oxygen and release carbon dioxide.

14. **Kidneys** - the organs that filter waste from the blood.

15. **Bladder** - the organ that stores urine.

16. **Uterus** - the organ that carries and nurtures a developing fetus.

17. **Vagina** - the canal that leads from the uterus to the outside.

18. **Penis** - the organ that carries and releases sperm.

19. **Testes** - the organs that produce sperm.

20. **Prostate** - the gland that produces fluid for sperm.

21. **Spleen** - the organ that filters blood and stores red blood cells.

22. **Liver** - the organ that produces bile and filters toxins from the blood.

23. **Gallbladder** - the organ that stores bile.

24. **Pancreas** - the organ that produces insulin and digestive enzymes.

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Anatomy And Physiology Cells Study Guide

WJ Hussar



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