

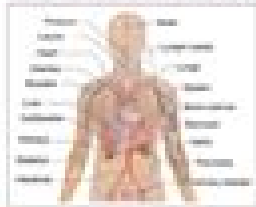
ANATOMY & PHYSIOLOGY

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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 - atoms and molecules
- 2. Cellular level - cells and tissues
- 3. Tissue level - groups of similar cells
- 4. Organ level - groups of different tissues
- 5. Organ system level - groups of organs
- 6. Organism level - the whole body

CELLS AND TISSUES

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



Organization of cellular levels

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

Cells are organized into tissues, which are groups of similar cells

Tissues are organized into organs, which are groups of different tissues

Organs are organized into organ systems, which are groups of different organs

Organ systems are organized into the human body



The human body is made up of trillions of cells. Each cell has a nucleus, which contains the genetic material (DNA). The nucleus is surrounded by a nuclear envelope. The cytoplasm is the fluid-filled space inside the cell. The cell membrane is the outer boundary of the cell.

Cells are organized into tissues, which are groups of similar cells

Tissues are organized into organs, which are groups of different tissues

Organs are organized into organ systems, which are groups of different organs

Organ systems are organized into the human body

ORGANS

Organs are made up of different tissues

Each organ has a specific function in the human body

Organs are organized into organ systems

Organ systems are organized into the human body

The human body is made up of trillions of cells

Cells are organized into tissues

Tissues are organized into organs

Organs are organized into organ systems

Organ systems are organized into the human body



Organ systems

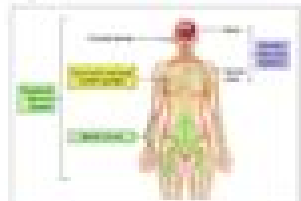
Organ systems are groups of different organs

Organ systems are organized into the human body

RESPIRATORY SYSTEM

Functions

- 1. Intake of oxygen from the atmosphere
- 2. Exchange of gases between the lungs and the blood
- 3. Transport of oxygen to the cells
- 4. Removal of carbon dioxide from the cells
- 5. Regulation of pH of the blood



Structure

- 1. Trachea - Windpipe, carries air from the lungs to the rest of the body
- 2. Bronchi - Carry air from the trachea to the lungs
- 3. Bronchioles - Carry air from the bronchi to the alveoli
- 4. Alveoli - Small air sacs where gas exchange takes place

Respiration

Respiration is the process of exchanging gases between the lungs and the blood

Types of cells

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

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Organ systems are organized into the human body



Types of tissues

Tissues are groups of similar cells

Tissues are organized into organs

Organs are organized into organ systems

Organ systems are organized into the human body



ORGAN SYSTEMS OF THE BODY

Organ systems are groups of different organs

Organ systems are organized into the human body

The human body is made up of trillions of cells

Cells are organized into tissues

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Organ systems

Organ systems are groups of different organs

Organ systems are organized into the human body

ENDOCRINE SYSTEM

- 1. Release of hormones into the bloodstream
- 2. Hormones travel through the bloodstream
- 3. Hormones act on target organs
- 4. Target organs respond to hormones
- 5. Hormones regulate the body's metabolism
- 6. Hormones regulate the body's growth
- 7. Hormones regulate the body's reproduction

Structure of the endocrine system

The endocrine system is made up of the following glands:

1. Hypothalamus

2. Pituitary gland

3. Thyroid gland

4. Parathyroid glands

5. Adrenal glands

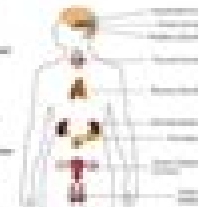
6. Pancreas

7. Ovaries (in females)

8. Testes (in males)

9. Pineal gland

10. Thymus gland



Function of the endocrine system

The endocrine system regulates the body's metabolism, growth, and reproduction

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Second Semester Anatomy Study Guide

**Horace H. Rackham School of
Graduate Studies**



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