

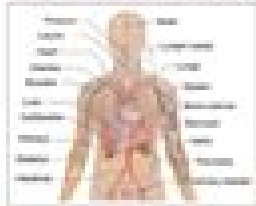
ANATOMY & PHYSIOLOGY

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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 - 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 cellular fluids

Cells are composed of various fluids

Extracellular fluid - fluid outside the cell

Intracellular fluid - fluid inside the cell

Interstitial fluid - fluid between cells

Blood plasma - fluid part of blood

Organic fluids - fluids containing organic molecules

Inorganic fluids - fluids containing inorganic molecules

Electrolytes - substances that conduct electricity

Non-electrolytes - substances that do not conduct electricity

Acids - substances that release hydrogen ions

Bases - substances that accept hydrogen ions

pH - measure of acidity or alkalinity

Homeostasis - the body's ability to maintain a stable internal environment

Feedback loop - a control system that maintains homeostasis

Receptor - detects changes in the environment

Effector - responds to changes in the environment

Control center - coordinates the response

Output - the response to the stimulus

Input - the stimulus that triggers the response

Process - the sequence of events that leads to the response

Result - the outcome of the response

Conclusion - the final outcome of the response

Summary - a brief overview of the response

Key points - the most important information

References - sources of information

Index - a list of topics and their locations

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Cellular components

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