

ANATOMY & PHYSIOLOGY

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HUMAN ANATOMY AND PHYSIOLOGY

Body Plan and Basic Principles of Homeostasis

Homeostasis
The capacity to maintain a stable internal environment in the face of change.

Physiology
The study of the functions of the body and the mechanisms by which they are achieved.

Structural Levels
The study of the structure of the body and the relationship between structure and function.

- 1. Chemical level: atoms and molecules
- 2. Cellular level: cells and tissues
- 3. Organ level: organs and systems
- 4. Organism level: the whole body

CELLS AND TISSUES

Cell Structure and Function

Characteristics of Living Cells
1. Cellular organization
2. Metabolism
3. Growth and development
4. Response to the environment
5. Reproduction

Cellular Homeostasis
The ability of a cell to maintain a stable internal environment.

NERVOUS SYSTEM

Structure and Function

Neurons
The basic units of the nervous system, responsible for transmitting information.

Neurotransmitters
Chemical messengers that transmit signals between neurons.

Brain Regions
The brain is divided into several regions, each with specific functions.

ENDOCRINE SYSTEM

Structure and Function

Hormones
Chemical messengers that regulate various physiological processes.

Major Endocrine Glands
1. Pituitary gland
2. Thyroid gland
3. Adrenal gland
4. Pancreas
5. Gonads (ovaries and testes)

NERVOUS SYSTEM

Structure and Function

Central Nervous System (CNS)
The brain and spinal cord.

Peripheral Nervous System (PNS)
The network of nerves that carries signals between the CNS and the rest of the body.

CELLS AND TISSUES

Cell Structure and Function

Cellular Homeostasis
The ability of a cell to maintain a stable internal environment.

Cellular Differentiation
The process by which cells become specialized to perform different functions.

ORGAN SYSTEMS OF THE BODY

Structure and Function

Organ Systems
Groups of organs that work together to perform a specific function.

Major Organ Systems
1. Circulatory system
2. Respiratory system
3. Digestive system
4. Excretory system
5. Reproductive system

ENDOCRINE SYSTEM

Structure and Function

Hormones
Chemical messengers that regulate various physiological processes.

Major Endocrine Glands
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4. Pancreas
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Daniel D. Chiras



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