

ANATOMY & PHYSIOLOGY

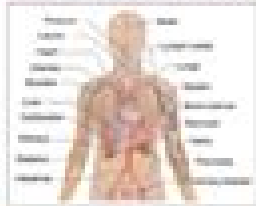
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HUMAN ANATOMY AND PHYSIOLOGY

Study of the human organism and its internal body



Anatomy

The study of the structure of the human body and its internal organs

Physiology

The study of the function of the human body and its internal organs

Structural levels

Studying the human body at the cellular, tissue, organ, and system 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 systems
- 6. **Whole body 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



Characteristics of cells

All cells are eukaryotic and have a nucleus

Cells are specialized for their function

Cells are surrounded by a cell membrane

Cells are connected to each other

Cells are constantly changing



The **epithelium** is the outermost layer of cells that covers the body

It is made up of cells that are closely packed together

Epithelial cells are specialized for their function

Epithelial cells are constantly changing

Epithelial cells are connected to each other

ORGANS

Organs are made up of different types of tissues

Each organ has a specific function

Organs are specialized for their function

Organs are constantly changing

Organs are connected to each other

Systemic level

Study of the function of the whole body

Systemic level is the study of the function of the whole body

Systemic level is the study of the function of the whole body

Systemic level is the study of the function of the whole body

Systemic level is the study of the function of the whole body



Organic level

Study of the function of the organs

NERVOUS SYSTEM

Functions

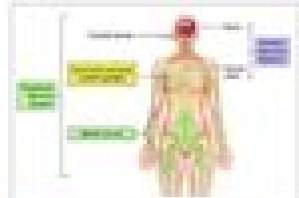
1. **Control** - the nervous system controls the body's functions

2. **Integration** - the nervous system integrates information from the body

3. **Communication** - the nervous system communicates with the body

4. **Response** - the nervous system responds to the body's needs

5. **Regulation** - the nervous system regulates the body's functions



Structure

The nervous system is made up of the brain and the spinal cord

The brain is the control center of the nervous system

The spinal cord is the communication pathway between the brain and the body

The nerves are the branches of the spinal cord that carry signals to and from the body

The sensory neurons carry signals from the body to the brain

The motor neurons carry signals from the brain to the body

IMMUNE SYSTEM

The immune system is the body's defense system

It is made up of cells and proteins that fight off infections

The immune system is constantly changing

The immune system is connected to each other

The immune system is constantly changing



Types of immunity

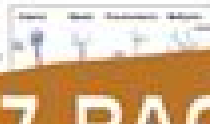
1. **Innate immunity** - the body's first line of defense

2. **Adaptive immunity** - the body's second line of defense

3. **Passive immunity** - the body's third line of defense

4. **Active immunity** - the body's fourth line of defense

5. **Artificial immunity** - the body's fifth line of defense



ORGAN SYSTEMS OF THE BODY

The body is made up of different organ systems

Each organ system has a specific function

Organ systems are specialized for their function

Organ systems are constantly changing

Organ systems are connected to each other

Organ systems are constantly changing



ENDOCRINE SYSTEM

The endocrine system is the body's chemical messengers

It is made up of glands that secrete hormones

Hormones are chemical messengers that travel through the blood

Hormones are specialized for their function

Hormones are constantly changing

Hormones are connected to each other

Hormones are constantly changing



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Anatomy And Physiology Gunstream Study Guide Answers

Daniel F McAuley



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