

ANATOMY & PHYSIOLOGY

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HUMAN ANATOMY AND PHYSIOLOGY

Body structure and function of the human body



Objectives

- 1. Identify the major systems of the human body.
- 2. Describe the structure and function of the major systems.
- 3. Explain the relationship between structure and function.

Introduction

The human body is a complex system of organs and tissues that work together to maintain life. It is divided into several major systems, each with its own specific functions.

Major Systems

- 1. **Integumentary System:** The skin, which protects the body from external damage and regulates body temperature.
- 2. **Musculoskeletal System:** The muscles and bones, which provide support and movement.
- 3. **Cardiovascular System:** The heart and blood vessels, which transport oxygen and nutrients throughout the body.
- 4. **Respiratory System:** The lungs and airways, which exchange oxygen and carbon dioxide.
- 5. **Digestive System:** The stomach and intestines, which break down food into nutrients.
- 6. **Excretory System:** The kidneys and bladder, which remove waste from the body.
- 7. **Reproductive System:** The organs that produce offspring.
- 8. **Endocrine System:** The glands that produce hormones to regulate the body's functions.
- 9. **Nervous System:** The brain and nerves, which control and coordinate the body's activities.

CELLS AND TISSUES

The basic building blocks of life



Objectives

- 1. Describe the structure and function of a cell.
- 2. Explain the relationship between structure and function.
- 3. Identify the major organelles of a cell.

Introduction

Cells are the smallest units of life that can perform all the functions of life. They are made up of various organelles, each with its own specific function.

Cell Structure

- 1. **Cell Membrane:** The outer boundary of the cell, which regulates the entry and exit of substances.
- 2. **Nucleus:** The control center of the cell, which contains the genetic material (DNA).
- 3. **Mitochondria:** The powerhouses of the cell, which produce energy for the cell's activities.
- 4. **Cytoplasm:** The fluid-filled space inside the cell, where most of the cell's activities take place.
- 5. **Endoplasmic Reticulum:** A network of membranes that synthesizes and transports proteins and lipids.
- 6. **Golgi Apparatus:** A series of stacked membranes that process and package proteins and lipids.
- 7. **Lysosomes:** Small organelles that break down waste materials and cellular debris.
- 8. **Centrioles:** Two cylindrical structures that are involved in cell division.

THE BRAIN

The control center of the body



Objectives

- 1. Describe the structure and function of the brain.
- 2. Explain the relationship between structure and function.
- 3. Identify the major parts of the brain.

Introduction

The brain is the most complex organ in the human body. It is responsible for all of the body's activities, from thinking and feeling to movement and breathing.

Brain Structure

- 1. **Cerebrum:** The largest part of the brain, which is responsible for higher-level functions like thinking, feeling, and reasoning.
- 2. **Cerebellum:** A smaller part of the brain, which is responsible for coordination and balance.
- 3. **Brainstem:** The base of the brain, which is responsible for basic life functions like breathing and heart rate.

THE HEART

The pump of the circulatory system



Objectives

- 1. Describe the structure and function of the heart.
- 2. Explain the relationship between structure and function.
- 3. Identify the major parts of the heart.

Introduction

The heart is a muscular organ that pumps blood throughout the body. It is divided into four chambers: the right and left atria and ventricles.

Heart Structure

- 1. **Right Atrium:** The chamber that receives deoxygenated blood from the body.
- 2. **Right Ventricle:** The chamber that pumps deoxygenated blood to the lungs.
- 3. **Left Atrium:** The chamber that receives oxygenated blood from the lungs.
- 4. **Left Ventricle:** The chamber that pumps oxygenated blood to the rest of the body.

NERVOUS SYSTEM

The communication system of the body



Objectives

- 1. Describe the structure and function of the nervous system.
- 2. Explain the relationship between structure and function.
- 3. Identify the major parts of the nervous system.

Introduction

The nervous system is the body's communication system. It consists of the brain, spinal cord, and peripheral nerves, which work together to control and coordinate the body's activities.

Nervous System Structure

- 1. **Brain:** The control center of the nervous system, which processes information and sends out instructions.
- 2. **Spinal Cord:** A long, thin structure that carries messages between the brain and the rest of the body.
- 3. **Peripheral Nerves:** A network of nerves that branches out from the brain and spinal cord to reach every part of the body.

IMMUNE SYSTEM

The body's defense system



Objectives

- 1. Describe the structure and function of the immune system.
- 2. Explain the relationship between structure and function.
- 3. Identify the major parts of the immune system.

Introduction

The immune system is the body's defense system. It is made up of various cells and organs that work together to protect the body from infection and disease.

Immune System Structure

- 1. **White Blood Cells:** The main components of the immune system, which are responsible for identifying and destroying pathogens.
- 2. **Lymphatic System:** A network of vessels and organs that carries lymph, a fluid that contains white blood cells.
- 3. **Spleen:** An organ that filters out pathogens from the blood.
- 4. **Thymus Gland:** A gland that produces and matures T-cells, a type of white blood cell.

INTERNAL ORGANS OF THE BODY

The major organs of the human body



Objectives

- 1. Describe the structure and function of the major internal organs.
- 2. Explain the relationship between structure and function.
- 3. Identify the major parts of the internal organs.

Introduction

The internal organs of the body are responsible for a wide range of functions, from digestion and energy production to waste removal and reproduction.

Major Internal Organs

- 1. **Liver:** An organ that filters toxins from the blood and produces bile to help with digestion.
- 2. **Stomach:** An organ that breaks down food into smaller pieces for digestion.
- 3. **Intestines:** A long tube of organs that absorb nutrients from food and eliminate waste.
- 4. **Heart:** The pump of the circulatory system, which transports oxygen and nutrients.
- 5. **Lungs:** Organs that exchange oxygen and carbon dioxide.
- 6. **Kidneys:** Organs that filter waste from the blood and produce urine.
- 7. **Bladder:** An organ that stores urine until it is ready to be eliminated.
- 8. **Reproductive Organs:** The organs that produce offspring.

INTERNAL SYSTEMS

The major systems of the human body



Objectives

- 1. Describe the structure and function of the major internal systems.
- 2. Explain the relationship between structure and function.
- 3. Identify the major parts of the internal systems.

Introduction

The internal systems of the body are responsible for a wide range of functions, from energy production and waste removal to reproduction and growth.

Major Internal Systems

- 1. **Digestive System:** The system that breaks down food into nutrients for the body.
- 2. **Respiratory System:** The system that exchanges oxygen and carbon dioxide.
- 3. **Circulatory System:** The system that transports oxygen and nutrients throughout the body.
- 4. **Excretory System:** The system that removes waste from the body.
- 5. **Reproductive System:** The system that produces offspring.

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1st Semester Anatomy Physiology Study Guide

Cornell University



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web this project considers using ethanol dehydration as a means to mass produce ethylene 2 3mm tonnes of a 95 ethanol 5 water feed will be converted into 1mm tonnes of

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web described the procedure for combining these methods is discussed 2 1 eo process the process flow diagram of the designed eo process is shown in figure 1 here the

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