

Chapter 1

Overview of Anatomy and Physiology

Anatomy: is the scientific study of the body's structures

Anatomy is broken down into 4 different branches:

Macroscopic or gross anatomy- is the study of the larger structures of the body, those visible without the aid of magnification. (Macro- means "large")

Microscopic anatomy- is the study of structures that can be observed only with the use of a microscope or other magnification devices. (Micro- means "small")

- **Cytology-** the study of cells
- **Histology-** the study of tissues.

Regional anatomy- is the study of the interrelationships of all the structures in a specific body region, such as the abdomen.

Systemic anatomy- is the study of the structures that make up a discrete body system.

Which of the types of anatomy are specialization areas?

Which of the types of anatomy are approaches of studying anatomy?

How are all the branches of anatomy similar?

Physiology- is the scientific study of the chemistry and physics of the structures of the body and the ways in which they work together to support the functions of life.

Homeostasis- is the state of steady internal conditions maintained by living things.

Structural Organization of Human Body

Levels of organization in the human body order from smallest to most complex:

Subatomic particles- atoms and molecules

Atoms- are made up of subatomic particles such as the proton, electron and neutron.

Molecules- Two or more atoms combine to form a molecule.

Organelles- are specialized structures that perform various jobs inside cells. The term literally means "little organs." In the same way organs, such as the heart, liver, stomach, and kidneys, serve specific functions to keep an organism alive, organelles serve specific functions to keep a cell alive.

Cells- is the smallest independently functioning unit of a living organism. A human cell typically consists of flexible membranes that enclose cytoplasm. Cells perform all functions of life.

- **Cytoplasm-** is a water-based gelatinous liquid that fills the inside of a cell. It is composed of water, salts, and various organic molecules.

Tissues- is a group of many similar cells that work together to perform a specific function.

Organs- is an anatomically distinct structure of the body composed of two or more tissue types.

Each organ performs one or more specific physiological functions.

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Ying-Ying Zheng



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