

Anatomy and Physiology

1.1 Overview of Anatomy and Physiology

Learning Objectives

1. Compare and contrast anatomy and physiology, including their specializations and methods of study
2. Discuss the fundamental relationship between anatomy and physiology

Human anatomy is the scientific study of the body's structures. Some of these structures are very small and can only be observed and analyzed with the assistance of a microscope. Other larger structures can readily be seen.

manipulated, measured, and weighed. The word "anatomy" comes from a Greek root that means "to cut apart." Human anatomy was first studied by observing the exterior of the body and observing the wounds of soldiers and other injuries.

Later, physicians were allowed to dissect bodies of the dead to augment their knowledge. When a body is dissected, its structures are cut apart in order to observe their physical attributes and their relationships to one another.

Dissection is still used in medical schools, anatomy courses, and in pathology labs. In order to observe structures in living people, however, a number of imaging techniques have been developed.

These techniques allow clinicians to visualize structures inside the living body such as a cancerous tumor or a fractured bone.

Like most scientific disciplines, anatomy has areas of specialization. Gross anatomy is the study of the larger structures of the body, those visible without the aid of magnification.

(Figure 1.2 a). Macro- means "large," thus, gross anatomy is also referred to as macroscopic anatomy. In contrast, micro- means "small," and microscopic anatomy is the study of structures that can be observed only with the use of a microscope or other magnification devices (Figure 1.2 b).

Microscopic anatomy includes cytology, the study of cells and histology, the study of tissues. As the technology of microscopes has advanced, anatomists have been able to observe smaller and smaller structures of the body, from slices of large structures like the heart, to the three-dimensional structures of large molecules in the body.

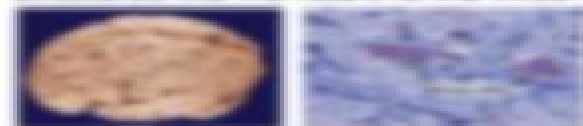


Photo A shows an entire human brain which has a bumpy and deeply striated appearance. Photo B is a micrograph of neural tissue. It contains two roughly diamond-shaped cells with dark nuclei. The cells are embedded in a light-colored tissue containing smaller cells and fiber strands. Gross and Microscopic Anatomy (a) Gross anatomy considers large structures

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