

# Organization of the Body

## Science and Society

- Science involved logical inquiry based on experimentation
  - **Hypothesis**: idea or principle to be tested in experiments
  - **Experiment**: series of tests of a hypothesis; a controlled experiment eliminates biases or outside influences
  - **Theory**: a hypothesis that has been proven by experiments to have a high degree of confidence
  - **Law**: a theory that has an unusually high level of confidence
- The process of science is active and changing as new experiments add new knowledge
- Science is affected by culture and culture is affected by society

## Anatomy and Physiology

- Anatomy and physiology are branches of biology concerned with the form and functions of the body
- **Anatomy**: science of the structure of an organism and the relationship of its parts
- **Gross Anatomy**: study of the body and its parts using only the naked eye
- **Microscopic Anatomy**: study of body parts using a microscope
  - **Cytology**: study of cells
  - **Histology**: study of tissues
- **Developmental Anatomy**: study of human growth and development
- **Pathological Anatomy**: study of diseased body structures
- **Physiology**: science of the function of organisms; subdivision named according to:
  - Organism involved (human or plant physiology)
  - Organizational level (molecular or cellular physiology)
  - Systemic function (respiratory, neurovascular, or cardiovascular physiology)

## Language of Science and Medicine

- Scientific terms are often based on Latin or Greek word parts
- **Terminologia Anatomica**: official list of anatomical terms; terms listed in Latin, English, and by number; avoid use of eponyms (terms based on someone's name)
- Physiology terms do not have an official list but follow the same principles as anatomy

## Characteristics of Life

- A single criterion may be adequate to describe, as in following examples:
  - **Autopoiesis**: living organisms are self-organized and self-maintaining
  - **Cell Theory**: if it is made of one or more cells, it is alive
- Characteristics of life considered most important in humans:
  - Responsiveness

# Body Organization Chapter 9 Concept Mapping Answer Key

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