

ANATOMY AND PHYSIOLOGY
CHAPTER 1: The Human Organism
(LECTURE)

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✓ **Anatomy**

- "What you see is what you got"
- Investigates **BODY STRUCTURE**
- The term means to dissect
- Greek work – "to cut" (tomy)
"apart" (ana)

Two approaches of anatomy:

1. Systematic- studies body organ-systems
2. Regional- studies body regions "specific areas" (Medical)

Types of Anatomy:

1. Surface anatomy
 - studies **EXTERNAL** features (ex. bone projections)
2. Anatomical imaging
 - using **TECHNOLOGIES** (ex. x-rays, ultrasound, MRI)
3. Gross anatomy
 - study of **LARGE, easily OBSERVABLE** structures (ex. heart or bone)
4. Microscopic anatomy
 - study of **VERY SMALL** structures, where magnifying lens or microscope is needed

✓ **Physiology**

- "Functions of the specific system"
- Investigates "**PROCESS**" and "**FUNCTIONS**"
- Predicts and understands the body's responses to stimuli

Types of Physiology:

1. Human physiology
 - studies **SCIENTIFIC** organisms, the human
2. Systematic physiology
 - studies **BODY ORGAN-SYSTEMS**
3. Cellular physiology
 - Studies **BODY CELLS**

STRUCTURAL & FUNCTIONAL ORGANIZATION

1. **Chemical level** – Atoms (colored balls) combine to form molecules.
2. **Cell level** – Molecules form organelles, such as the nucleus and mitochondria, which make up cells.
3. **Tissue level** – Similar cells and surrounding materials make up tissues.
4. **Organ level**- Different tissues combine to form organs, such as the urinary bladder.
5. **Organ system level**- Organs, such as the urinary bladder and kidneys, make up an organ system.
6. **Organism level**- Organ systems make up an organism.

✓ **MAJOR ORGANS OF THE BODY**

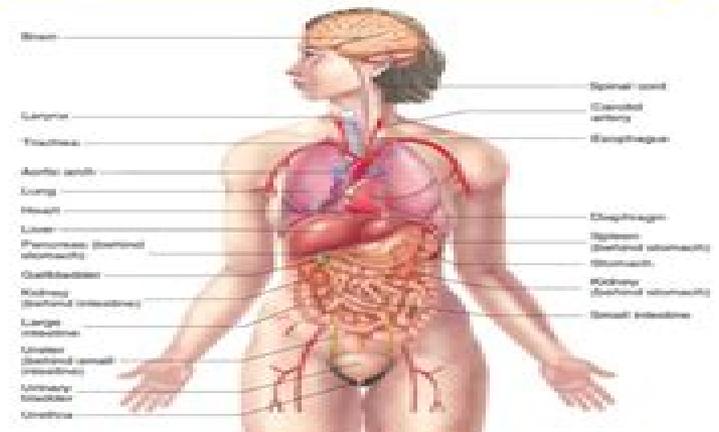


Figure 1.2 Major Organs of the Body

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Richard Bailey



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