## The Tissue Level of Organization

Text: Human Biology, by Mader. pp. 66-75

- 1. Introduction
  - A. General Terms
    - i. Cell
    - ii. Tissue
    - iii. Histology
  - B. Tissue Types (p.66)
    - i. Epithelial Tissue
    - ii. Connective Tissue
    - iii. Muscular Tissue
    - iv. Nervous Tissue
- 2. Epithelial Tissue (pp. 72 76)
  - A. Structure
    - i. Basement Membrane
    - ii. Avascular
    - iii. Stem Cells
  - B. General Epithelial Types
    - i. Covering or Lining Epithelium
    - ii. Glandular Epithelium (see p. 74)

- C. Specific Examples of Epithelia
  - i. Simple Epithelium
    - a. Simple Squamous Epithelium
      - Endothelium
  - ii. Simple Cuboidal Epithelium
  - iii. Simple Columnar Epithelium
  - iv. Ciliated Pseudostratified Columnar Epithelium
  - v. Transitional Epithelia
- 4. Connective Tissue
  - A. General Characteristics
    - i. Matrix
    - ii. Fibers
      - Fibroblasts
      - a. Collagen Fibers
      - b. Elastic Fibers
      - c. Reticular Fibers
  - B. Examples of Connective Tissues (pp.66 68)
    - i. Loose Fibrous Connective Tissue (p. 67)
    - ii. Dense (Collagenous) Connective Tissue
    - iii. Adipose Tissue
  - C. Cartilage

- i. General Characteristics
  - a. Matrix
  - b. Avascular
- ii. Types
  - a. Hyaline Cartilage
  - b. Elastic Cartilage
  - c. Fibrocartilage
- 5. Osseous Tissue (Bone)
  - A. General Characteristics
    - i. Living
    - ii. Central Canal
    - iii. Canaliculi
    - ii. Lacunae
  - B. Formation
  - C. Types of Bones
    - i. Compact Bone
    - ii. Spongy Bone

- 6. Vascular Tissue (Blood) To be covered at a later date
  - A. Components
    - i. Plasma
    - ii. Red Blood Cells
    - iii. White Blood Cells
    - iv. Platelets
- 7. Muscle Tissue To be covered at a later date
  - A. Skeletal Muscle Tissue
    - i. Striated
    - ii. Voluntary
  - B. Cardiac Muscle Tissue
    - i. Intercalated Discs.
      - a. Gap Junctions
  - C. Smooth Muscle Tissue
- 8. Nervous Tissue To be covered at a later date
  - A. Neurons
  - B. Neuroglia