## CHAPTER Tissue: The Living Fabric 4

#### 4.1 Tissue samples are fixed, sliced, and stained for microscopy

#### Learning Outcome

- List the steps involved in preparing animal tissue for microscopic viewing.
- A. Tissue specimens must be fixed and sectioned thinly enough to allow light transmission.
- B. Tissue sections must be stained with dyes that bind to different parts of the cell in slightly different ways so that anatomical structures are distinguished from one another.

#### 4.2 Epithelial tissue covers body surfaces, lines cavities, and forms glands

#### Learning Outcomes

- List several structural and functional characteristics of epithelial tissue.
- Name, classify, and describe the various types of epithelia, and indicate their chief function(s) and location(s).
- Define gland.
- Differentiate between exocrine and endocrine glands, and between multicellular and unicellular glands.
- Describe how multicellular exocrine glands are classified structurally and functionally.
- A. Epithelium occurs in the body as covering or lining epithelium, or as glandular epithelium.
- B. Epithelial tissues perform several functions in the body: protection, absorption, filtration, excretion, secretion, and sensory reception.
- C. Special Characteristics of Epithelium
  - Polarity: Tissue has an apical surface not attached to surrounding tissues facing either the
    external environment or the cavity of an internal organ, and a basal surface attached to the
    underlying connective tissue.
  - Specialized contacts: Adjacent epithelial cells are bound together by specialized contacts such as desmosomes and tight junctions.
  - Supported by connective tissue: A basement membrane, consisting of a basal lamina, and a reticular lamina derived from the collagen of underlying connective tissue.
  - Epithelial tissues are innervated, but avascular receiving nutrients by diffusion from underlying connective tissues.
  - 5. Epithelial tissue has a high regeneration capacity.
- D. Classification of Epithelia
  - Each epithelial tissue has a two-part name: the first part indicates the number of layers present, and the second part describes the shape of the cells.
    - Simple epithelia consist of a single layer of cells, while stratified epithelia consist of several layers.
    - b. Cell shapes may be squamous (flat), cuboidal (box-like), or columnar (column shaped).
  - A simple epithelium consists of a single layer of cells that functions in absorption, secretion, and filtration.
    - Simple Squamous epithelium has laterally flattened cells with little cytoplasm, located where filtration or exchange of substances occurs.

# **Tissue The Living Fabric Study Guide**

**E Staff** 

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