

Chapter 3 Tissues

A. **Tissue** - collections of specialized cells and cell products which perform a number of specialized functions

1. types
 - a. **epithelial tissue**
 - b. **connective tissue**
 - c. **muscle tissue**
 - d. **neural tissue**

B. **Epithelial Tissue** - includes epithelia and glands

1. **epithelium** - layer of cells that cover exposed surfaces, lines internal cavities and forms glands
 - a. composed of closely bound cells by cell junctions
 - b. has an exposed surface attached to underlying tissue. **apical surface and basal surface**
 - c. attached to **basement membrane**
 - d. does not contain blood vessels - **avascular**
 - e. continually replaced
2. **functions of epithelium**
 - a. provides protection
 - b. controls permeability
 - c. provides sensations - detects changes in the environment and sends information to nervous system
 - d. produces specialized secretions - glandular cells
3. surface specializations
 - a. on exposed surface of cell
 - 1) **microvilli** -involved in absorption; increases surface area
 - 2) **cilia** - beat and move substances along surface
 - 3) **stereocilia** - long microvilli
 - b. movement of fluids over surface by beating of cilia

Anatomy Tissue Study Guide

Paul D. Anderson



Anatomy Tissue Study Guide:

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NBDE Part I-Anatomy Specialty Review and Study Guide Herbert Levin,2015-09-25 Includes Multiple choice fact scenario and case based questions Correct answers and explanations to help you quickly master specialty content All questions have keywords linked to additional online references The mission of StatPearls Publishing is to help you evaluate and improve your knowledge base

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