

Introduction to Tissues and Membranes

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1. Tissue types (Page 70)
 - A. Epithelial Tissue
 - B. Connective Tissue
 - C. Muscle Tissue
 - D. Nervous Tissue

2. Epithelial Tissues (Page 70 - 75)
 - A. Introduction
 - i. Basement Membrane
 - ii. Avascular
 - iii. Classifications (Page 71)
 - a. Lining
 - b. Glandular
 - Exocrine Glands
 - Endocrine Glands

B. Simple Epithelial Tissues

i. Simple Squamous Epithelia (Pages 71 - 73)

a. Function / Location Relationships

b. Types

- Pulmonary Epithelia
- Endothelia

ii. Simple Cuboidal Epithelia (Page 72)

a. Function

b. Function / Location Relationships

iii. Simple Columnar Epithelia (Page 72)

a. Some Characteristics

- * Goblet Cells
- * Microvilli (Brush border)

b. Function

c. Function / Location Relationships

iv. Pseudostratified Ciliated Columnar Epithelia (Page 72 - 73)

- * Cilia

- * Mucous

- a. Function

- b. Function / Location Relationships

B. Stratified Epithelial Epithelia (Pages 73 - 75)

i. Stratified Squamous Epithelia

- a. Some Characteristics

- * Keratinized (with keratin)

- * Nonkeratinized (without keratin)

- b. Function

- c. Function / Location Relationships

ii. Transitional Epithelia (Page 74)

a. Characteristics

* Binucleated

b. Function

c. Function / Location Relationships

3. Connective Tissues (Page 75 - 78)

A. Introduction

i. Vascular

ii. Matrix

iii. Fibers and Cells

B. Loose Areolar Connective Tissue (Page 75)

i. Fibers

a. Collagenous Fibers

b. Reticular Fibers

c. Elastic Fibers

ii. Cells

a. Mast Cells

* Histamine

b. Macrophages

* Phagocytosis

c. Plasma Cells

* Antibodies

iii. Function

iv. Function / Location Relationships

- C. Adipose Connective Tissue (Page 75 - 76)
 - i. General Characteristics

 - ii. Function / Location Relationships

- D. Dense Connective Tissue (Page 76 - 77)
 - i. General Characteristics
 - a. Collagen Fibers
 - b. Organization of Fibers
 - * Regular
 - * Irregular
 - ii. Regular Dense Connective Tissue
 - a. Function

 - b. Function / Location Relationships

 - ii. Irregular Dense Connective Tissue
 - a. Function

 - b. Function / Location Relationships

- E. Elastic Connective Tissue (Page 77 - 78)
 - i. General Characteristics
 - Elastic Fibers
 - ii. Function
 - iii. Function / Location Relationships

- 4. Cartilage (Connective Tissue) (Page 78 - 80)
 - A. Introduction
 - i. Matrix
 - ii. Fibers
 - iii. Chondrocytes and Lacunae
 - iv. Vascular
 - v. Perichondrium

- B. Hyaline Cartilage (Page 79)
 - i. General Characteristics

 - ii. Function

 - iii. Function / Location Relationships

- C. Elastic Cartilage (Page 79)
 - i. General Characteristics

 - ii. Function

 - iii. Function / Location Relationships

- D. Fibrocartilage (Page 79 - 80)
 - i. General Characteristics

 - ii. Function

 - iii. Function / Location Relationships

5. Membranes (Page 84 - 85) (See handout on MEMBRANES - important)

A. General Characteristics

* Mesothelium

B. Serous Membranes

i. Pleura

a. Visceral Pleura

b. Parietal Pleura

c. Pleural Cavity

d. Pleural Fluid

ii. Pericardium

a. Visceral Pericardium

b. Parietal Pericardium

c. Pericardial Cavity

d. Pericardial Fluid

