TISSUES
Tissue: A Definition

A group of connected, interdependent cells that cooperate to perform a specific function
Categories of Tissue

1. Epithelial Tissue
2. Connective Tissue
3. Muscle Tissue
4. Nervous Tissue
Epithelial Tissues

- General Features

Cellular Layer + Basement Membrane
Epithelial Tissues

• General Features
  Cellular Layer + Basement Membrane
  No Blood Supply
  Touching Each Other
  Rapid Rate of Cell Reproduction
Epithelial Tissues

- Structural Classification

  Cell Shapes
Epithelial Tissues

• Structural Classification
  Cell Shapes
  Cell Layers
Simple
Stratified
Epithelial Tissues

• Major Types
Simple Squamous Epithelium
Simple Squamous Epithelium

Function: Exchange

Sample Locations: Alveoli, capillaries
Stratified Squamous Epithelium
Stratified Squamous Epithelium

Function: Protection

Sample Locations: Skin, Mouth, Repro tracts
Simple Cuboidal Epithelium

Function: Absorption or Secretion

Sample Locations: Kidney, Hormone Glands
Simple Columnar Epithelium

Function: Absorption (or Secretion)
Sample Location: Digestive Tract

Microvilli
Simple Columnar

Note goblet cells
Pseudostratified Columnar Epithelium
Pseudostratified Columnar Epithelium
Pseudostratified Columnar Epithelium

Function: Absorption, Secretion, Movement

Sample Locations: Respiratory & Repro Ducts
Transitional Epithelium

Function: Stretchability

Sample Location: Urinary Bladder