

Anatomy and Physiology: Study Guide (TISSUES)

Epithelia tissues:

1. What are four characteristics of epithelia?

1. Cells bound closely together
2. Has a free surface (apical) exposed to the environment or to some internal chamber or passageway
3. Attached to underlying connective tissue by a basement membrane
4. Absent of blood vessels: avascular

2. What are four functions of epithelia?

1. Provide physical protection
2. Control permeability
3. Provide sensation
4. Produce specialized secretions (glands)

3. Describe the basement membrane.

- Lies between epithelium and underlying connective tissue
- Consists of network of protein fibers
- Acellular
- Functions
 - provides strength and resists distortion
 - provides a barrier that restricts movement of large molecules from underlying connective tissue into epithelium

4. Why must epithelia be continually repaired? How is it repaired?

Epithelia must be continually repaired because it physically protects the tissues underneath it. It is repaired by stem cells lying near the basement membrane.

5. How do we classify epithelia?

By the number of layers and the cell shape

6. Give the function of each epithelia type listed below and give an example of where it is found:

- A. Simple squamous: diffusion, lungs
- B. Endothelium: lining of hollow organs
- C. Mesothelium: lining of internal cavities and organs
- D. Simple cuboidal: secretion/absorption, glands/stomach/intestines/bile duct
- E. Simple columnar: protection/absorption/secretion, digestive tract
- F. Stratified squamous: protection, mechanical stress
- G. Stratified cuboidal: protection, sweat and salivary glands
- H. Stratified columnar: protection, mammary glands/larynx/urethra in males
- I. Pseudostratified columnar: secretion/protection/mucus, respiratory passageways
- J. Transitional: protection/permeability/sensation, bladder/uterus

Anatomy Tissue Study Guide Answers

O García



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