Epithelial Tissues

To complete this worksheet, select:

Module: Foundations
Activity: Anatomy Overviews
Title: Epithelial Tissues

Complete the following worksheet and add it to your notes.

I. Interactions Foundations CD/Contents/Tissue Level/Anatomy Overviews/Epithelial Tissues

1. Where are epithelial tissues found?

2. Describe these three basic shapes of epithelial cells:
   - squamous
   - cuboidal
   - columnar

3. What is the apical surface of epithelial tissue? What is the function of microvilli and cilia located on this surface?

4. Describe the positional relationship between the epithelial surface cells, basal surface, basement membrane, and connective tissue.

5. Describe each of the following epithelial tissue arrangements:
6. Observe and describe each of the following tissues. Name example(s) of where each can be found and describe the function of each. You should be able to identify each epithelial type by sight. Study their appearance and characteristics. Correlate their physical structure with their function.

**simple squamous epithelium**: 

**stratified squamous epithelium**: 

**stratified keratinized epithelium**: 

**pseudostratified epithelium**: 

**transitional epithelium**: 

7. *Keratin* is a waterproofing protein. What are the functions of *keratinized* and *nonkeratinized* stratified squamous epithelium.

Where are each found? 

**simple cuboidal epithelium**
stratified cuboidal epithelium

simple columnar epithelium

stratified columnar epithelium

pseudostratified columnar epithelium

8. What is the function of goblet cells?
9. What is the function of cilia (when present)?

transitional epithelium

Glandular Epithelium
Return to the opening Epithelial Tissue window on your CD. Click Glandular Epithelium.

10. Identify functional differences between exocrine and endocrine glandular epithelia. How are they structurally different from one another?

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Epithelial Membranes

Once again, return to the first Epithelial Tissue window. Click on Epithelial Membranes.

11. Define/describe epithelial membrane structure.

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12. Describe structure, function, and location of each epithelial membrane type:

Serous

__________________________________________________________________________

__________________________________________________________________________

Cutaneous

__________________________________________________________________________

__________________________________________________________________________

Mucous

__________________________________________________________________________

__________________________________________________________________________