Ch 4 Epithelial Tissue Notes

Groups of cells with similar \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and a common \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ are tissues.

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| **Type of Tissue** | **Job** |
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|  |  |
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Most organs contain \_\_\_\_\_\_\_\_\_ tissue types. Their \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ determines an organ’s \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

**Epithelial Tissue**

Epithelial tissue (or epithelium) is a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ that \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ body surfaces or cavities.

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| There are 2 main forms of epithelia: | Location in body: |
| 1. |  |
| 2. |  |
| Functions: | |

**Epithelial Tissues have 5 special characteristics:**

1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_- all cells are attached to a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ membrane and have a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (free) surface.
2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_- tissue is made of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ packed cells with very little \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (extracellular material) between cells.
3. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_- reinforced by \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ tissue.
4. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_- tissue does not have a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ supply (avascular) so it receives nutrients via the process of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. It is, however, innervated with \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
5. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_- tissue has a highly \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ capacity so it can repair itself easily.

Classification of Epithelia---- Epithelia are named with \_\_\_\_\_\_\_\_\_\_ names.

* 1st part tells \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ of cell layers
  + simple= \_\_\_\_\_\_\_\_\_\_ layer
  + stratified= \_\_\_\_\_\_\_\_\_\_\_\_\_ layers
* 2nd part tells the \_\_\_\_\_\_\_\_\_\_\_\_\_\_ of the cells:

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| **Type of Cell** | **Looks Like** | **Shape of Nucleus** |
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|  |  |  |

\*Nuclear shape corresponds to the shape of the cell.

\*In stratified epithelia, shapes can vary in each layer so cell is named according to the shape of cells in the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ layer.

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| **Type of Epithelial Tissue** | **Basic Characteristics** | **Location Found in Body** | **Sketch** |
| **Simple Epithelia** | | | |
| Simple Squamous |  |  |  |
| Simple Cuboidal |  |  |  |
| Simple Columnar |  |  |  |
| Ciliated Columnar |  |  |  |
| Pseudostratified |  |  |  |
| **Stratified Epithelia** | | | |
| Stratified Squamous |  |  |  |
| Stratified Cuboidal |  |  |  |
| Stratified Columnar |  |  |  |
| Transitional |  |  |  |
| **Glandular Epithelia** | | | |
| Exocrine |  |  | N/A |
| Endocrine |  |  | N/A |