# Tissues -Lecture 4 Cheat Sheet

by Morghay123 via cheatography.com/53154/cs/14433/

## General Definitions

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|---|---|
| Tissue | A group of cells that have similar structure and function plus extracellular substance (matrix) |
| Histology | Study of the tissues of the body and how tissues are arranged to constitute organs |
| Extracellular Matrix | Glue that holds the cells together in tissues |
| Basic types of tissues | - Epithelial<br>- Connective<br>- Muscle<br>- Nervous |

## Epithelial Tissues

**Location**

- Covers internal and external surfaces of the body

*- ex: Skin, linings of the digestive and respiratory tracts, blood vessels, body cavities...*

**Characteristics**

- Cells close (packed) together (very little extracellular matrix)

- Form most glands

- Have a free (*apical*) surface

- Have a *Basal* surface which attaches epithelial cells to underlying tissue

**Places Found**

| | |
|---|---|
| Surface of skin | Lining of digestive tract |
| Lining of respiratory tract | Lining of Secretory glands |

## Classifications of Epithelia

| | |
|---|---|
| **1. Simple Squamous - Single layer of flat cells** | *eg. lining blood vessels, aveoli of the lungs, kidney tubules, serous membranes...* |

Advantage: easier for substances to diffuse or be filtered across

Good for gas exchange

| | |
|---|---|
| **2. Stratified squamous, keratinized - several layers of cells** | *eg. skin* |
| **3. Stratified squamous, non-keratinized moist** | *eg. lining esophagus* |
| **4. Simple cuboidal** | *eg. kidney tubule* |
| **5. Simple columnar** | *eg. intestine* |
| **6. Pseudostratified** | *eg. upper respiratory tract* |

**7. Stratified Cuboidal**

**8. Stratified Columnar**

| | |
|---|---|
| **9. Transitional** | *eg. urinary bladder* |

## Funtions of Epithelia

1. Permit the passage of substaces

2. Protect underlying structures

3. Barrier

4. Absorption

5. Secretion

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