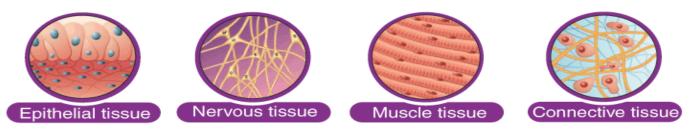
# Lab2: Epithelial Tissue

Tissues: are groups of cells that have a similar structure and perform specific function.

# There are 4 Types of animal tissues:



#### Epithelial Tissues: are thin tissues that lines and covers all body surfaces.

#### Some Characteristics of Epithelia

- 1. Cells are firmly attached by intercellular junctions.
- 2. Cells rest on a basement membrane, a vascular

#### Functions

- 1. Protection
- 2. Absorption
- 3. Secretion and other functions

### **Classification of Epithelial tissue**

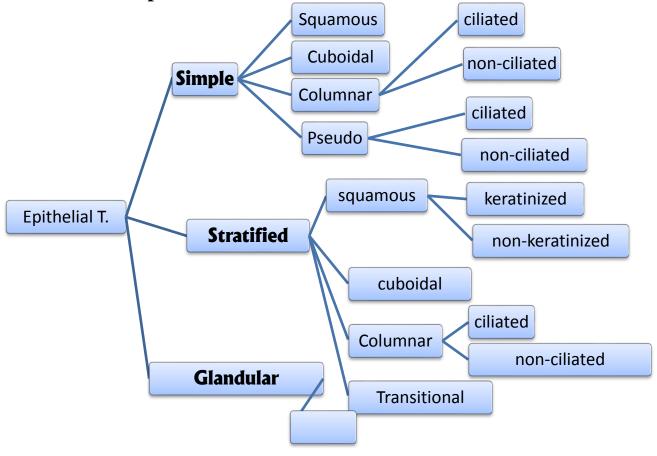


Table 1: Describes location and function of epithelial tissue							
Cells:	Location	Function					
Simple squamous Ep.T. One layer of flattened cell with disc shaped nuclei.	Bowman's capsule in kidney	Passage of materials by passive diffusion and filtration					
Simple cuboidal Ep.T. : One layer of cube-like cells with large, spherical central nuclei	Thyroid gland	Secretion (gland) and absorption					
Simple columnar Ep.T. : One layer of column-shaped cells with oval nuclei, some bear cilia at their apical surface, May contain goblet cells	<ul> <li>-Non-ciliated from stomach.</li> <li>-Ciliated from oviduct</li> <li>-With brush border small intestine</li> </ul>	Absorption, secretion of mucus, and enzymes					
Pseudo stratified columnar Ep.	<b>Ciliated:</b> in the linings of	Secretion and					
T.:	the trachea	propulsion of mucus					
All cells lay on B.M. only tall cells reach apical surface. Nuclei lie at varying heights within cells (Gives false impression of stratification). <b>have two types</b> 1-Ciliated Pseudostratified Ep. T. 2- Non-ciliated Pseudostratified Ep. T.	Non-ciliated with stereocilia (for absorption) in epididymis						

# Table 1: Describes location and function of epithelial tissue

Practical Histology	ں بايۆلۆجى	پراکتیکی <b>دوودم</b>		م اسراء شانەزانى	
-	ls. 2 types: ized	Esophagus	Protection		
Stratified cul 2 layers of cu	boidal Ep. T. T. uboidal cells	Sweat glands in	the skin.	he skin. Protection	
More than one layer compose 2 types: 1- <b>ciliated</b>	umnar Ep. T. e layer of cells upper ed of columnar cells. ed (with stereocilia)	<ul> <li>Non-ciliated</li> <li>Ciliated: in</li> </ul>	•		ction and retion
(empty bladde cuboidal-shap shape. When	lls during relaxation er) the cells appear ed or rounded Stretches as the nes full the cells	Urinary blac	lder		inary organ and stretch