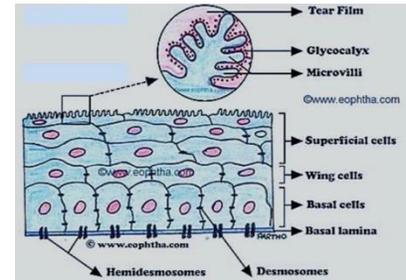


## Types of epithelium:

### The eye

#### The corneal epithelium : 5-6 layers

- Basal —> **columnar**
- 3-4 intermediate —> **polyhedral cells**
- The surface corneal cells —> **squamous**



- mucus layer of Tear film forms a network over the conjunctival surface, secreted by —> the **stratified squamous** cells of the conjunctive

- **Corneal endothelium** —> **simple squamous cells**
- Limbus —> **stem cells**
- **Posterior surface of iris = anterior epithelial surface of ciliary body** —> made of 2 layers of pigmented **cuboidal epithelium**

- The dilator pupillae muscle —> myoepithelial cells partially pigmented
- The sphincter pupillae muscle —> circular band of smooth ms

- **Lens epithelium** —> **single layer of cubical cells**
- **Pigmented epithelium layer of retina ( first layer )** —> **Single layer of cuboidal cells with basal rounded nuclei**

- **Bulbar conjunctiva** → Formed of **st. columnar** epith with **goblet-like** cells

### Eye lid

- From outside is covered e thin skin that has no subcutaneous fat.
- from inside is lined with palpebral conjunctiva.

- **Lacrimal canaliculi** → Lined with **stratified squamous** epithelium

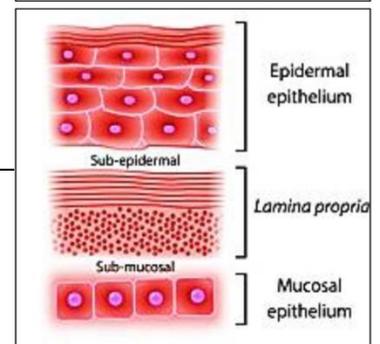
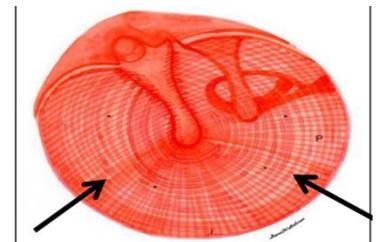
- **Lacrimal sac** → wide tube, lined with **pseudo- stratified columnar** ciliated epithelium (motile cilia) & **goblet** cells

## The ear

- **External auditory canal** → lined with keratinized **stratified squamous epithelium**

- **Tympanic membrane (ear drum) :**

- Outer layer : keratinized **Stratified squamous** epithelium devoid of hair
- Intermediate layer: **collagenous fibrous layer**
- Inner mucous layer: **simple cuboidal epithelium**



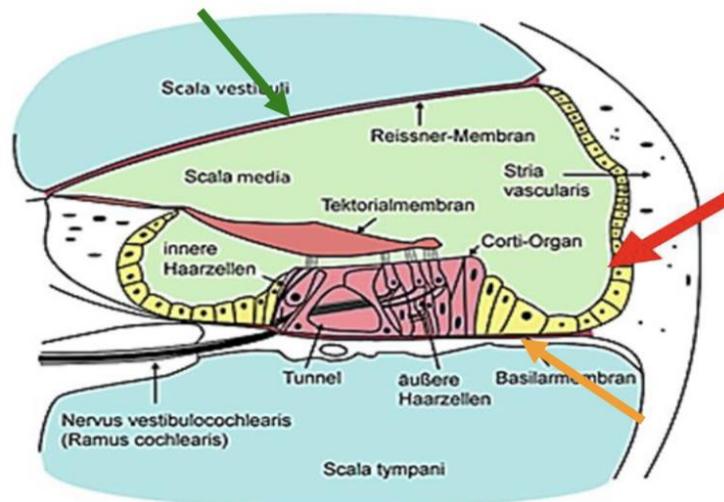
- **The Middle Ear (tympanic cavity)** → Lined with **simple cuboidal epithelium**

- **Eustachian tube :**

- **Bony part (tympanic)** → lined with **simple columnar** ciliated epithelium

- **Cartilaginous part (pharyngeal)** → lined with **respiratory epithelium**
- 

- **Scala media (Cochlear duct):**
  - a. The lateral wall → covered with **stratified columnar cells**
  - b. The roof → covered on both sides with **simple squamous epi**
  - c. The floor → its under surface covered e **simple squamous epithelium**



- **The utricle & saccule** → **simple squamous epithelium**

□ " فشدُّ أُرِّي بتوفيقٍ ومقدرةٍ "

□ لا تنسوننا من صالح دعاءكم