HISTOLOGY PRACTICAL LECTURE - 15 -

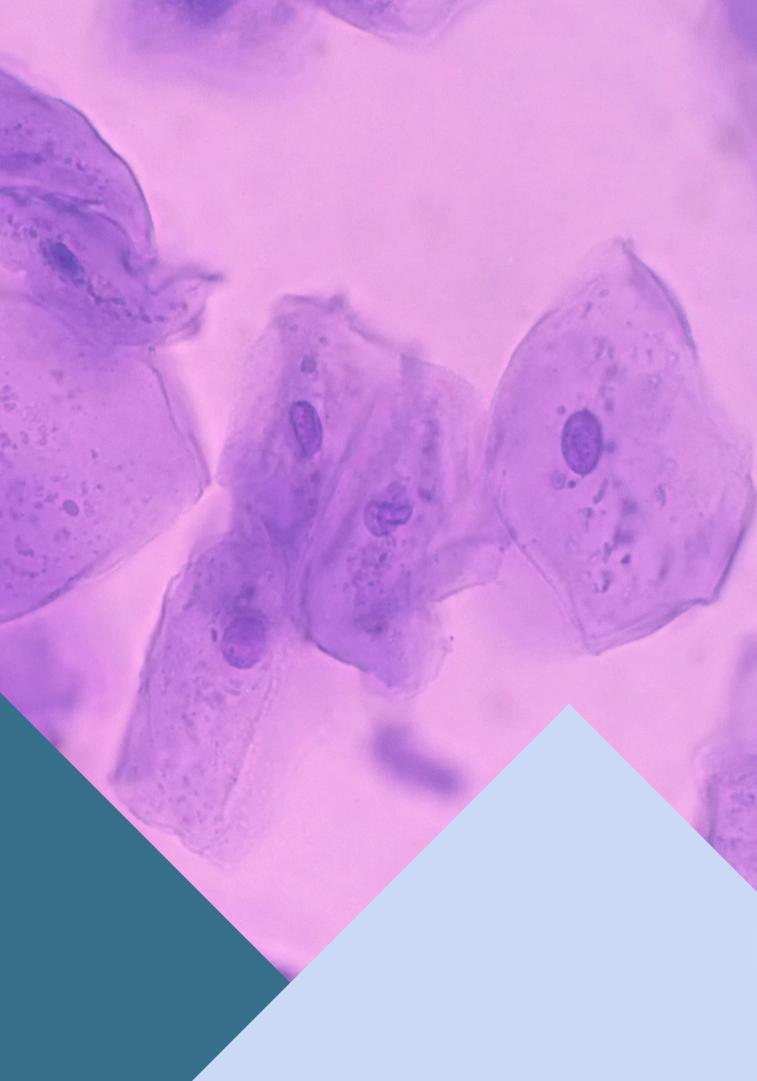
RESPIRATORY SYSTEM

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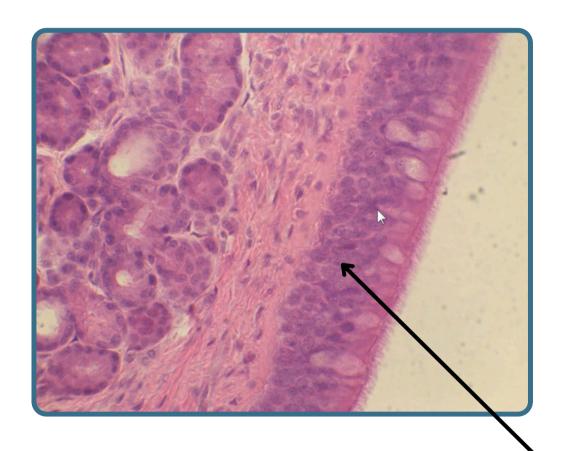
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Section In The Olfactory Epithelium

Bone Of Superior Concha





Olfactory Epithelium

thick pseudostratified columnar

epithelium with three types of cells

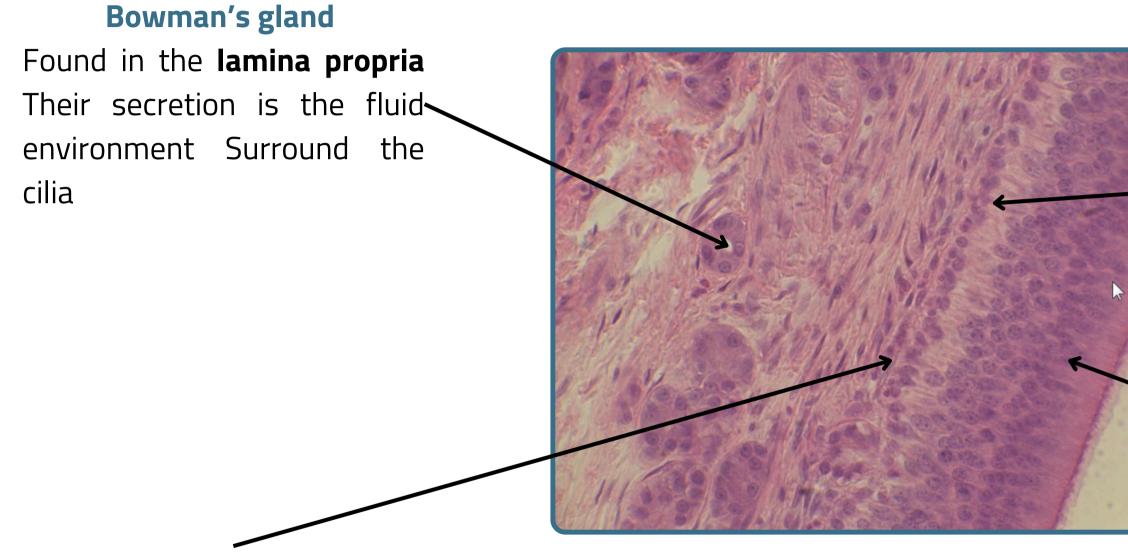


Olfactory Epithelium thick pseudostratified columnar

epithelium with three types of cells



Section In The Olfactory Epithelium



Basal Cell

has small spherical cone shape, these cells form a single layer at the base of epithelium they are stem cells for are for other types



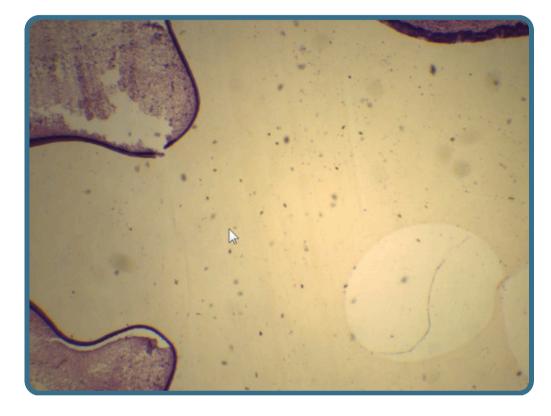
Supporting Cells

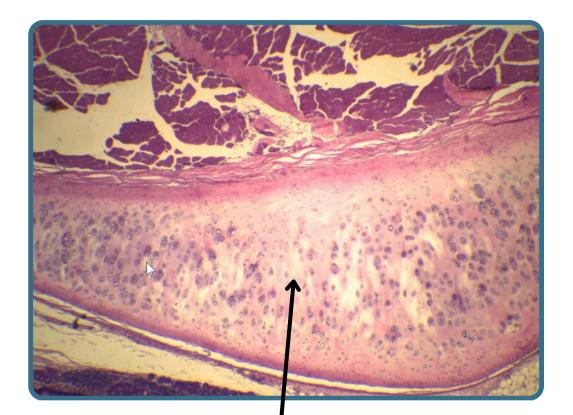
these cells columnar with broad apexes and narrower bases



these cells is bipolar neurons their nuclei form an irregular row near the middle of the epithelium (olfactory neurons) each cell has apex with dendrites& non motile cilia and from the basal end an axon extends

Section In The Larynx





Hyaline Cartilage

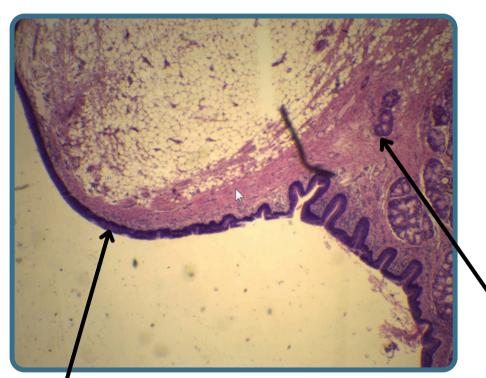
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Section In The Larynx

False Vocal Folds



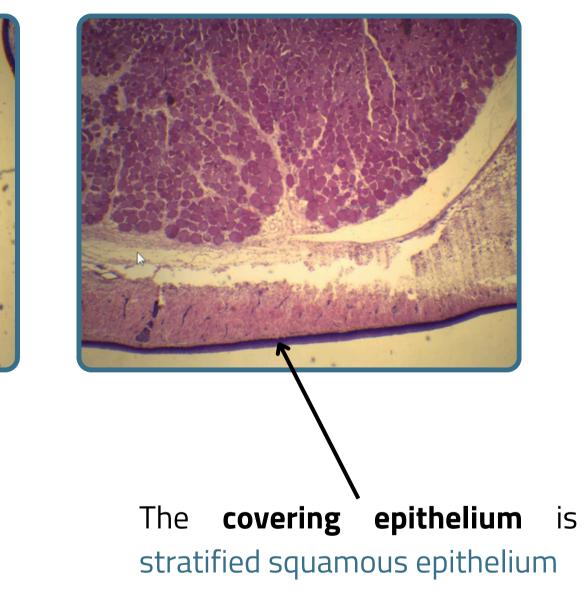


the **covering epithelium** is **respiratory epithelium** (ciliated) pseudostratified columnar epithelium)

Seromucus gland

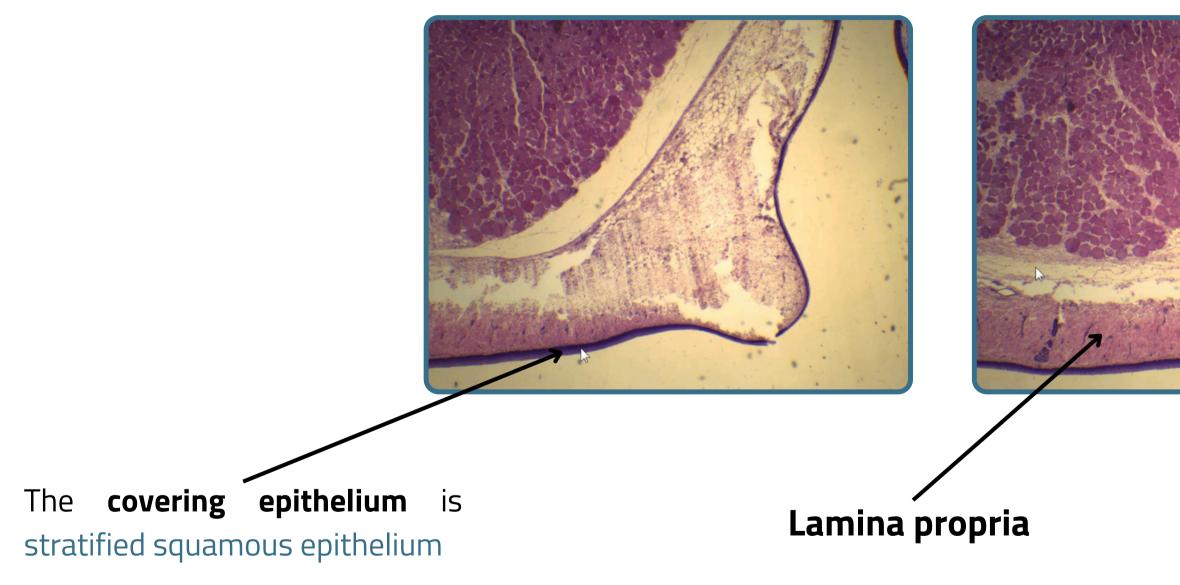


True Vocal Folds



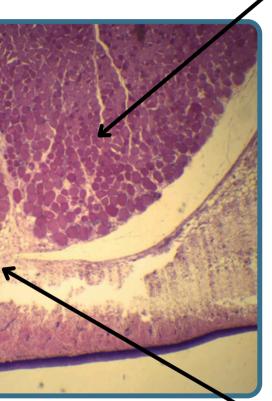
Section In The Larynx

True Vocal Folds





skeletal muscle fibers called **Vocalis muscle**



Bundles of fibers called vocal



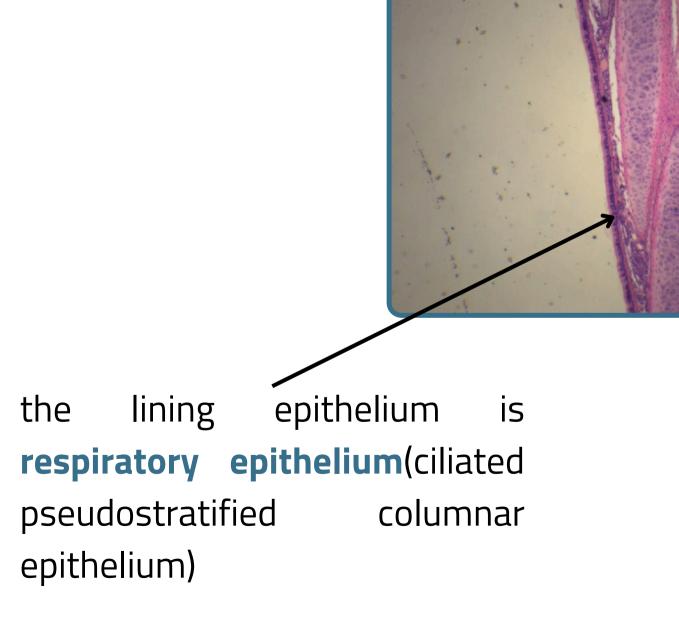
Section In The Larynx

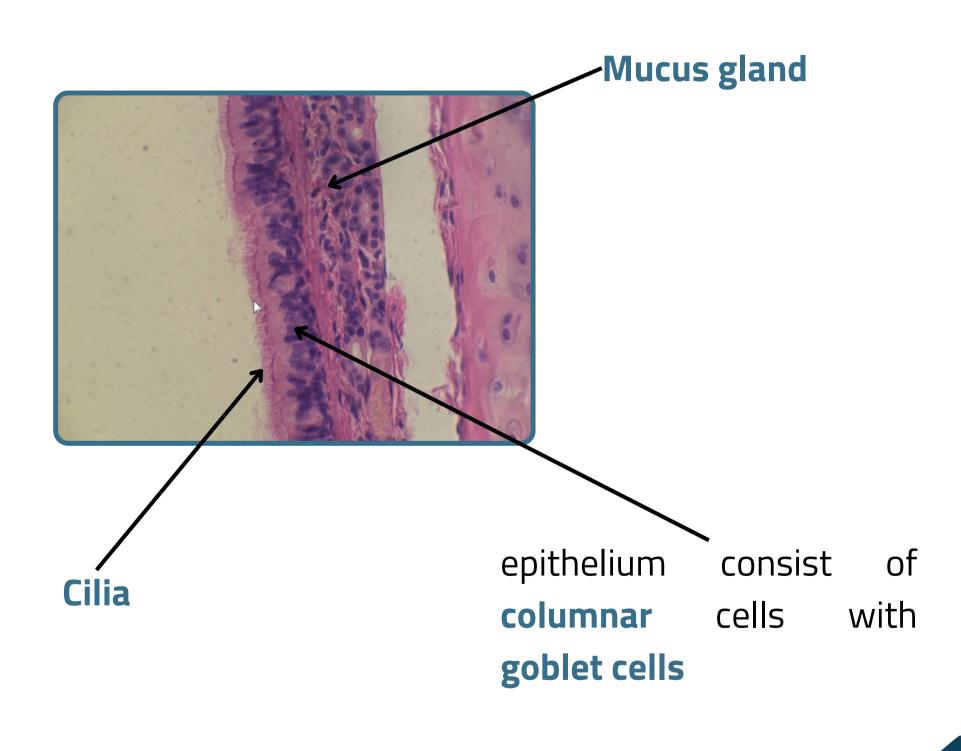
These two folds are separated By **narrow space**-**or ventricle**





Section In The Trachea









Section In The Trachea

Q/how many ring of the hyaline cartilage found Within the wall of the trachea ? A/ 16-20 ring



Trachealis muscle with fibroelastic ligament

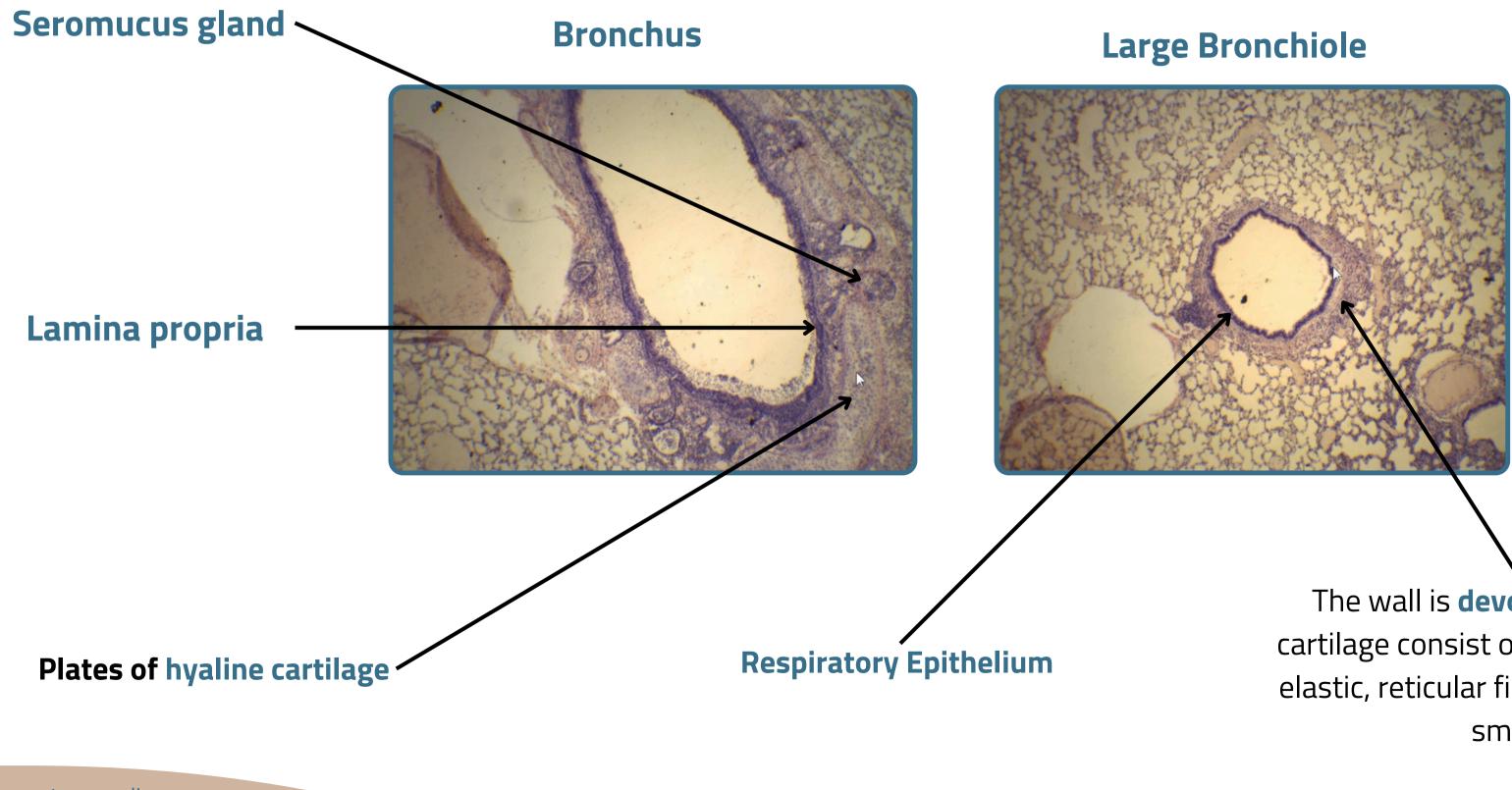
bundles of smooth muscle fibers binds to perichondrieum and bridge the open end of each C shape ring of hyaline cartilage



Fibroelastic Ligament



Section In The Lungs



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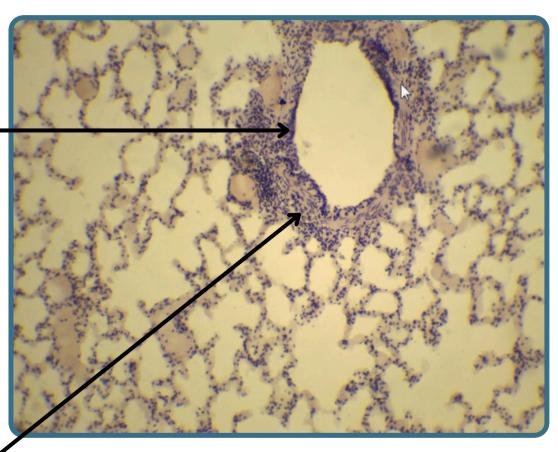
The wall is **devoid** of glands and cartilage consist of connective tissue, elastic, reticular fibers and strands of smooth

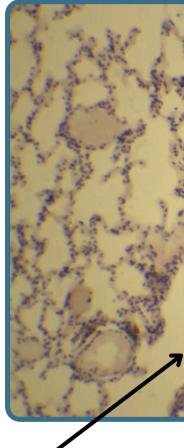


Section In The Lungs

Terminal Bronchiole

the lining epithelia is **simple** cuboidal columnar or epithelium





The lamina propria consists of strands of smooth muscle fibers with elastic and reticular fibers

Alveolar duct

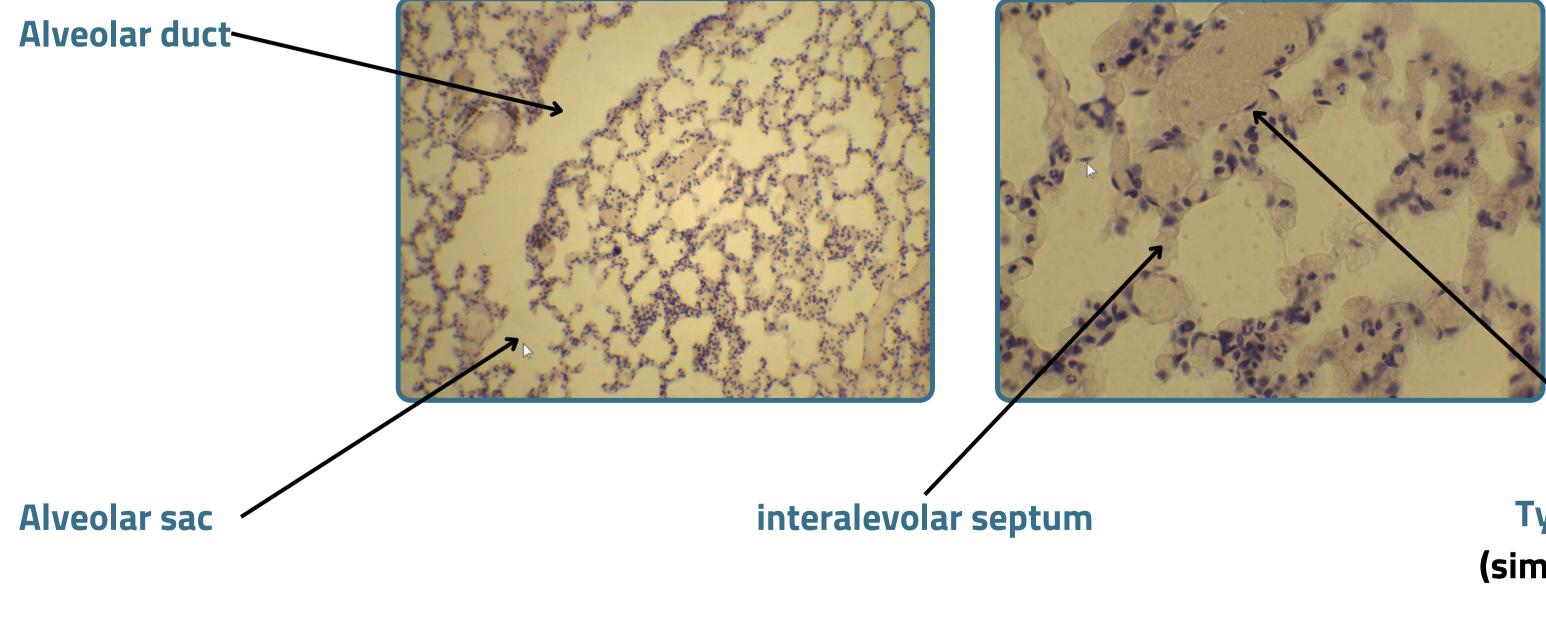


Respiratory Bronchiole





Section In The Lungs





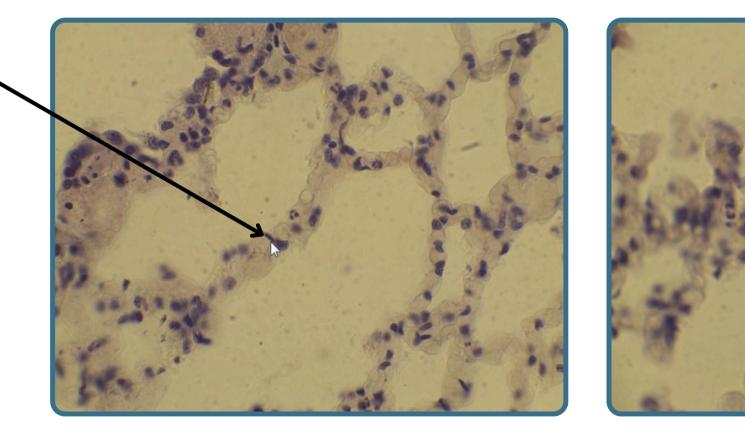
Type II alveolar cell or pneumocyte

Type I alveolar cell (simple squamous cell)

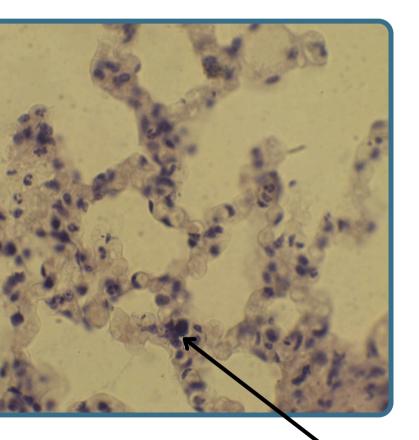


Section In The Lungs

Endothelial cells lined the capillary





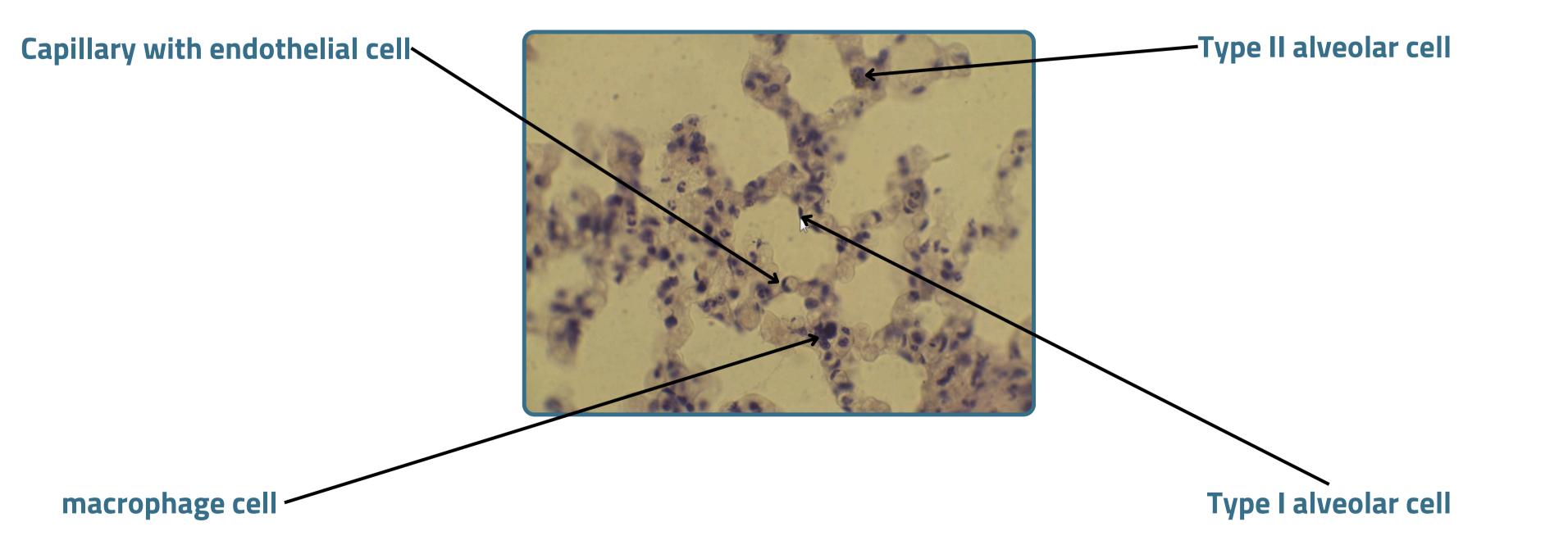


macrophage cell

large irregular called (**dust cell**) in shape and darkly stain



Section In The Lungs



*All Slides Are Stained By Hematoxylin and

Eosin*

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