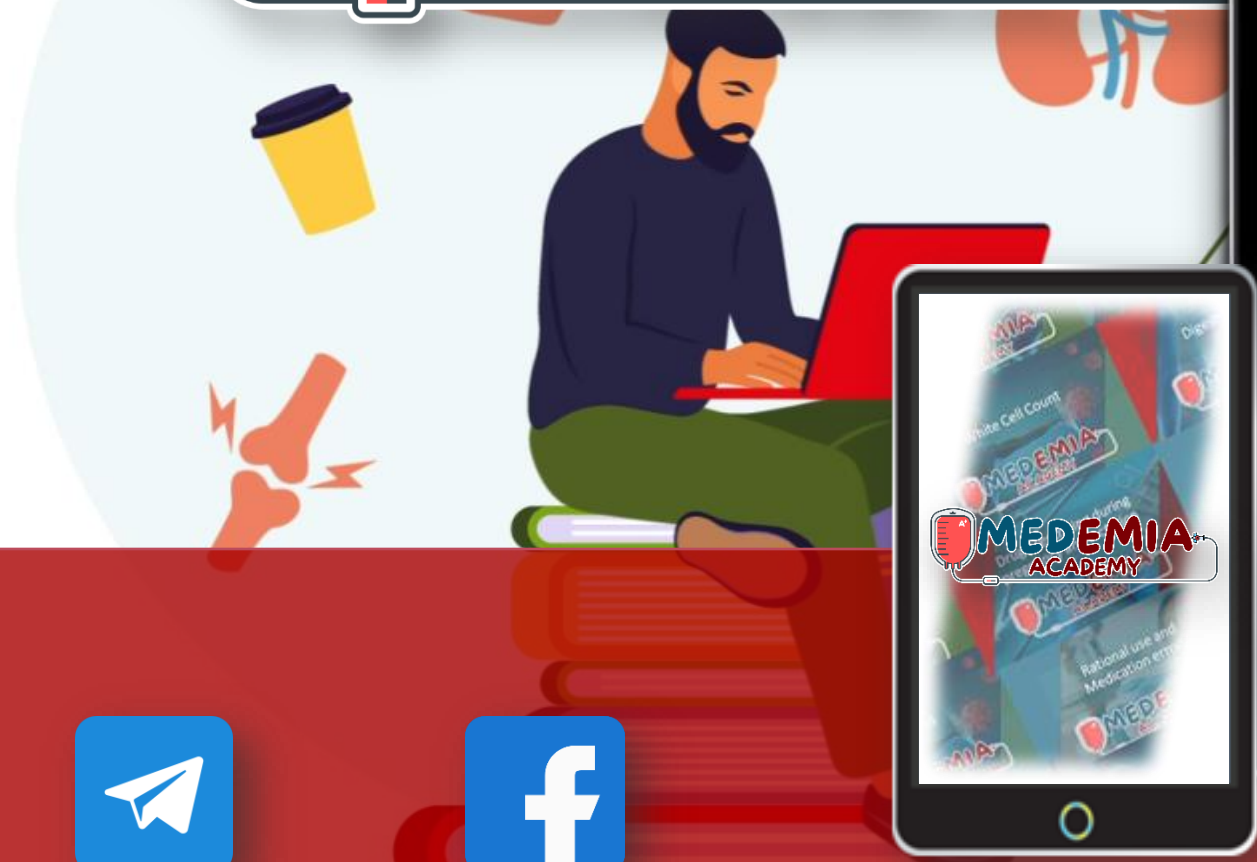
Histology Lab

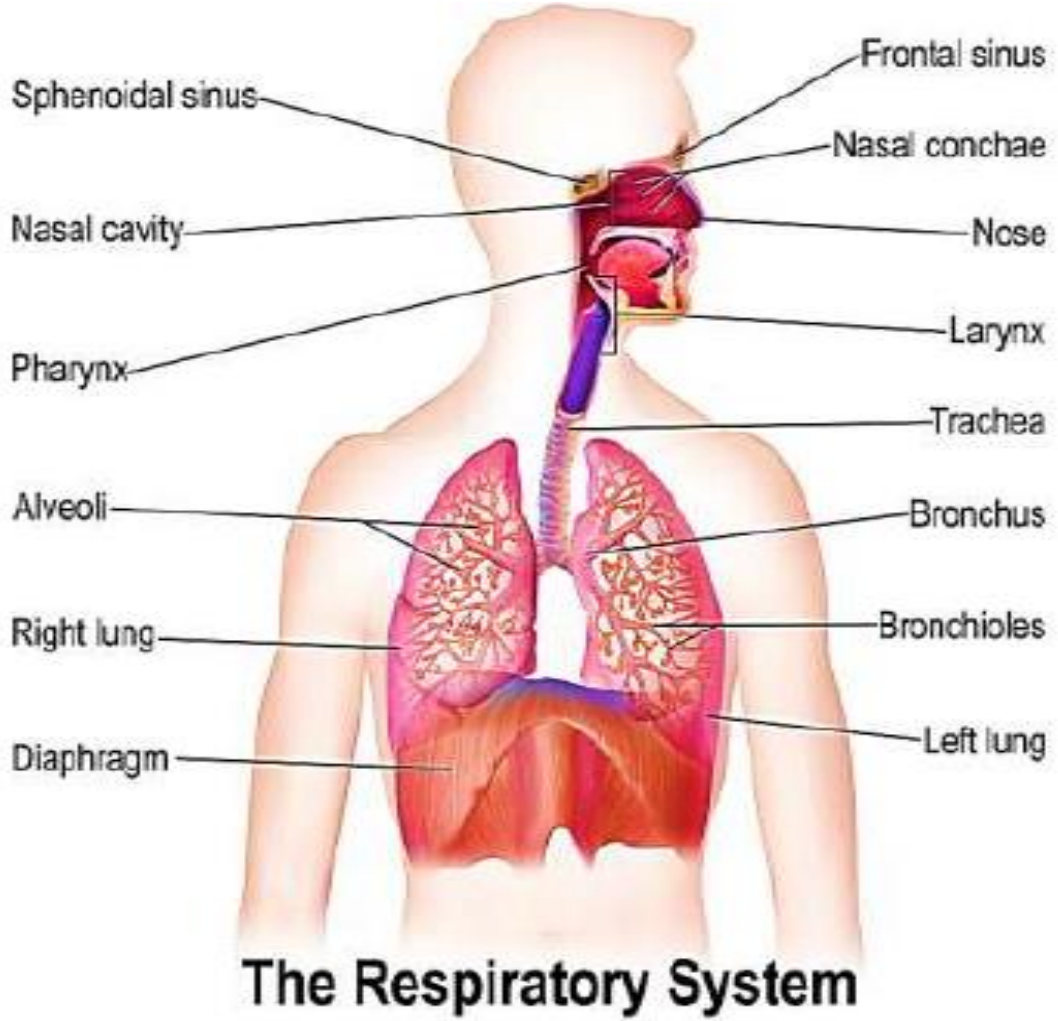
MEDEMIA ACADEMY

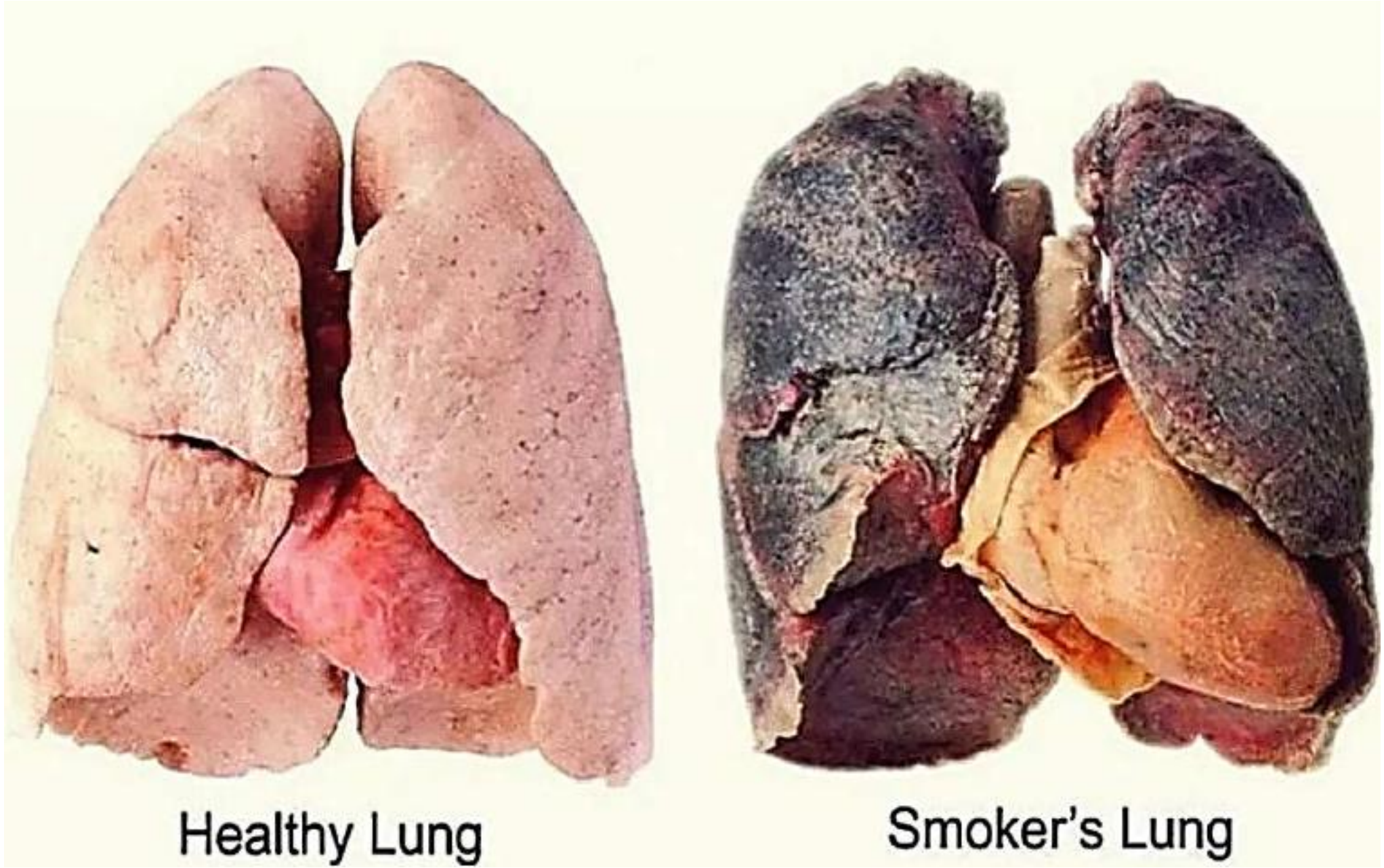


@MEDEMIA_ACADEMY

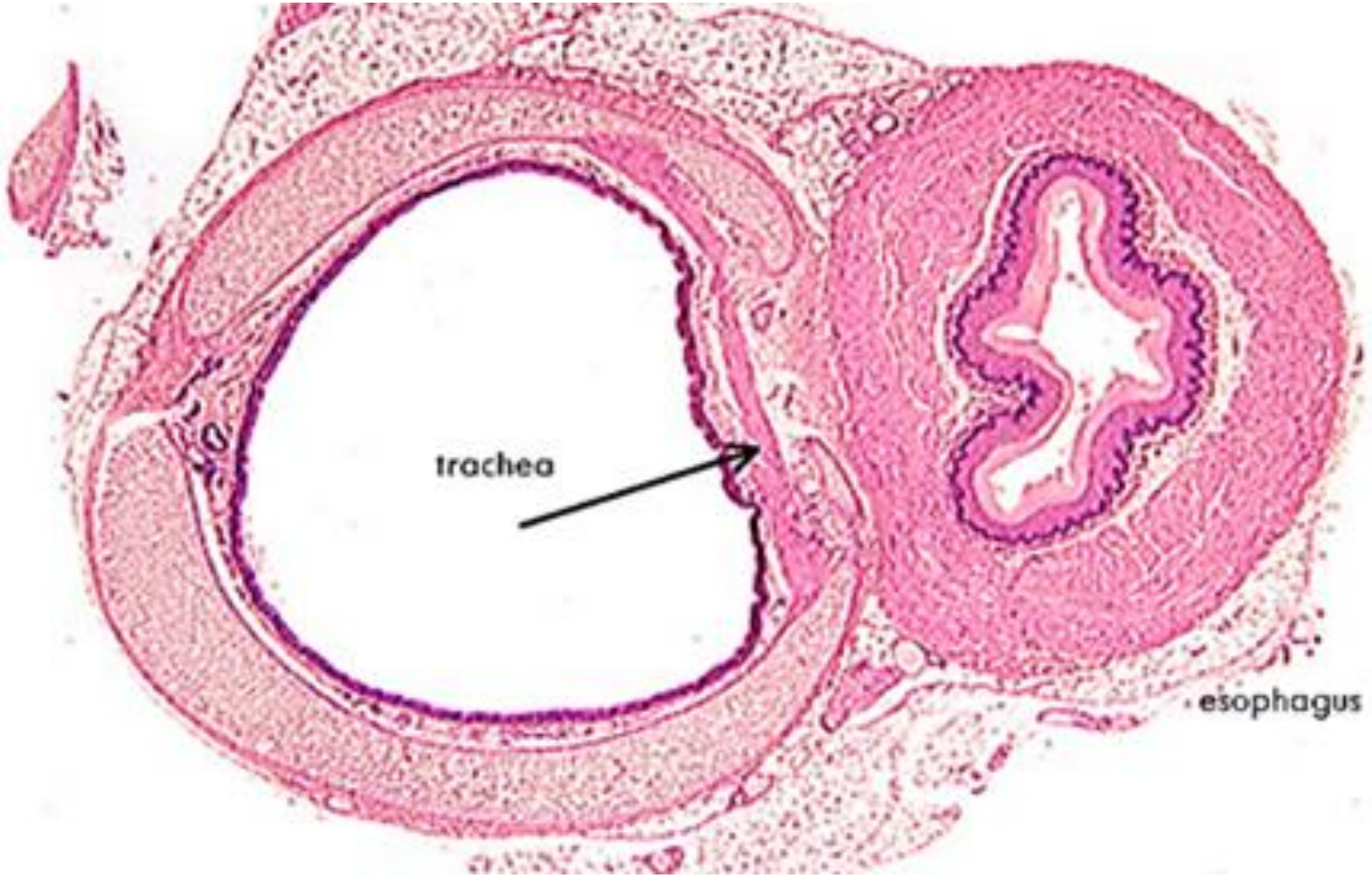
Microscopic slides in the Lab

- Trachea
- Epiglottis
- Respiratory epithelium
- Olfactory epithelium
- Lung
  - + bronchus
  - + bronchiole
- Lung

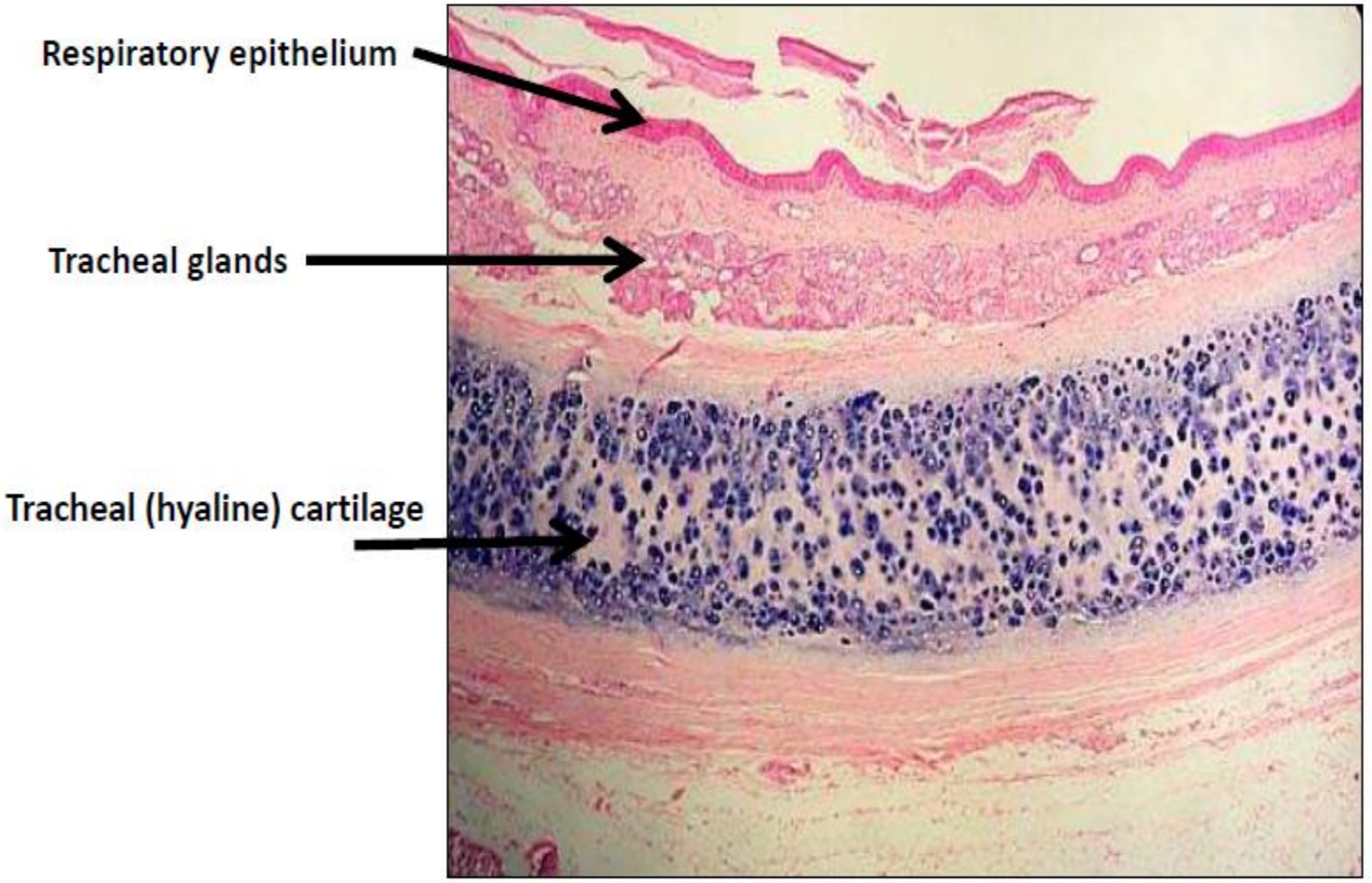



Healthy Lung
Smoker's Lung

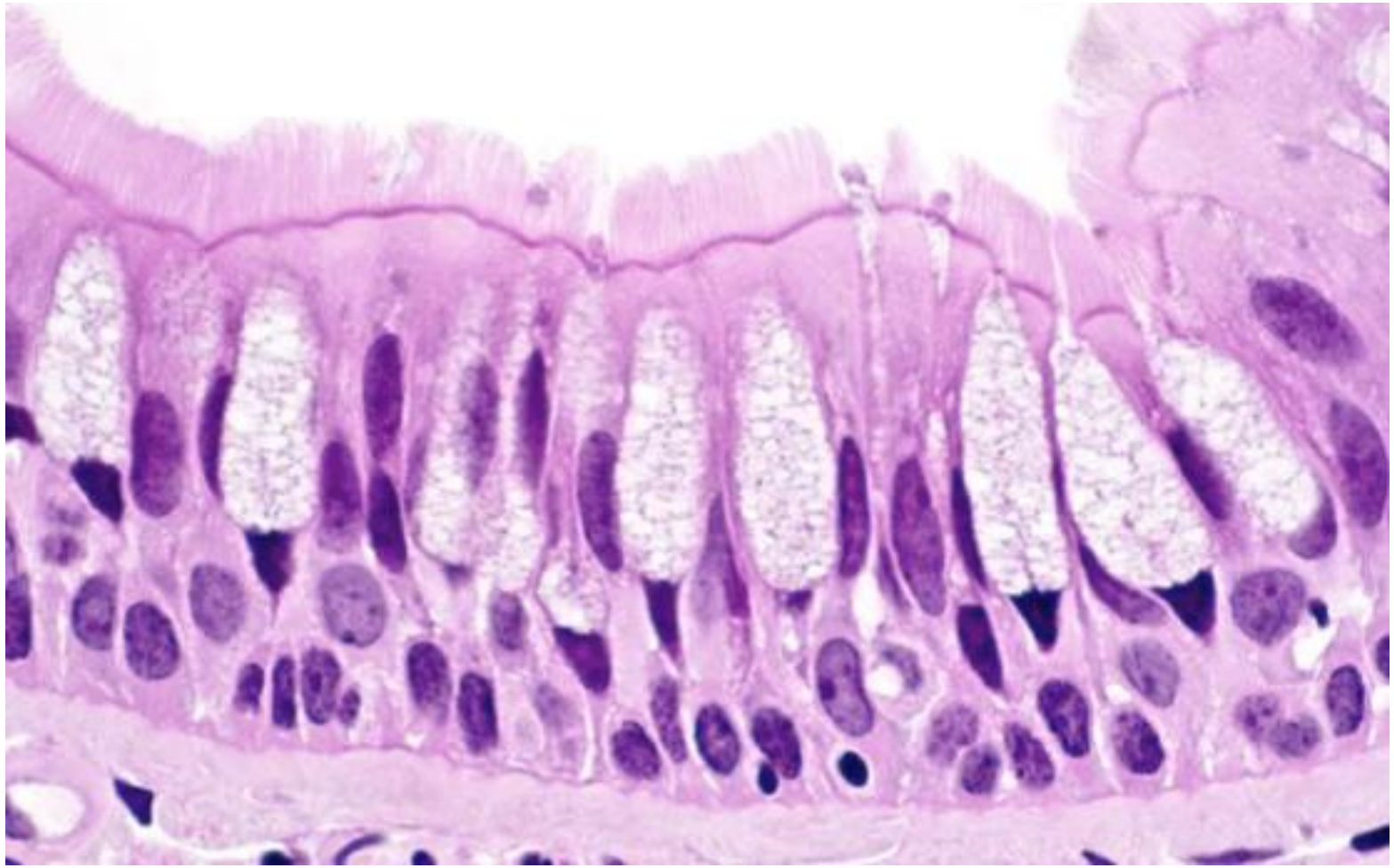
Trachea and Esophagus



Cross section in Trachea

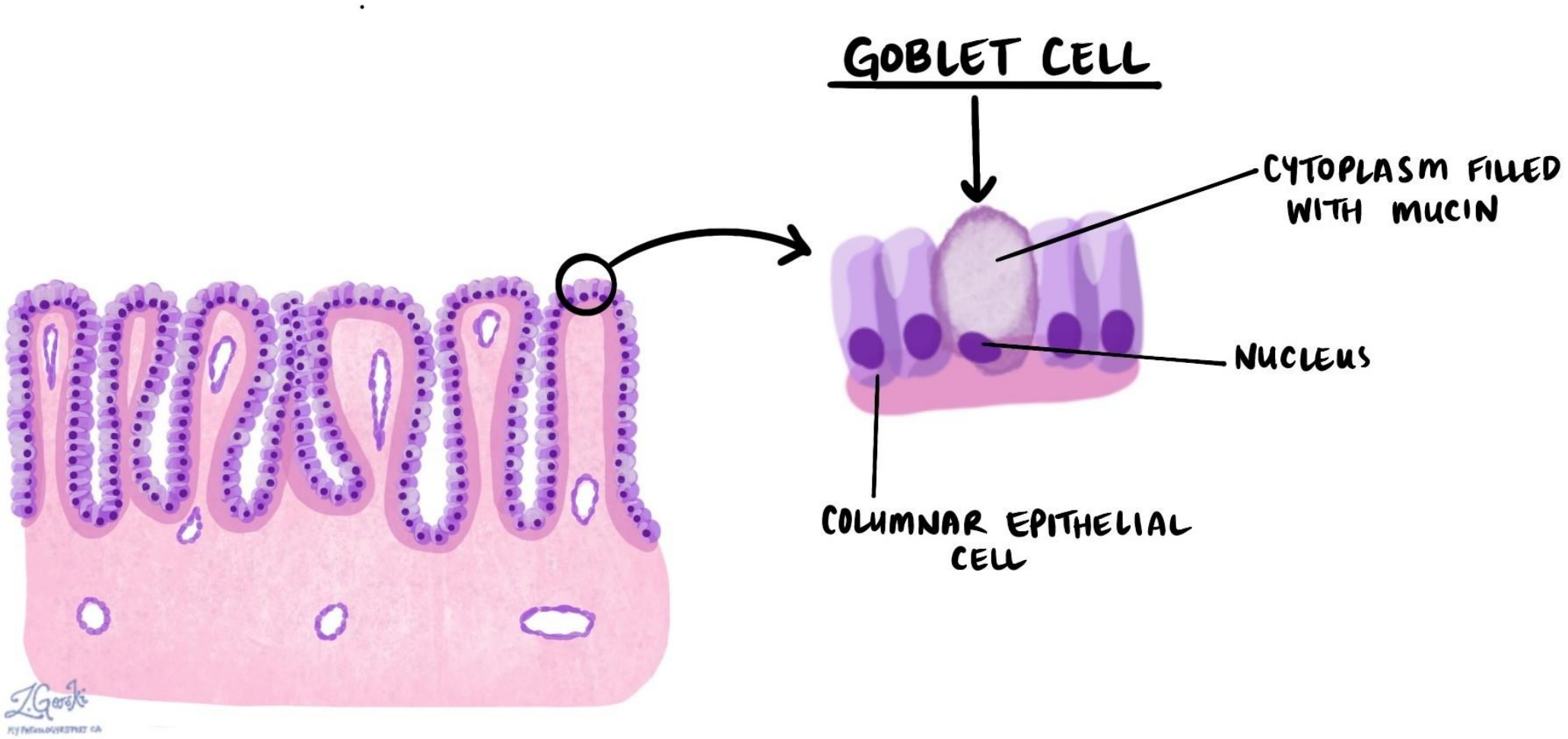


Respiratory Epithelium

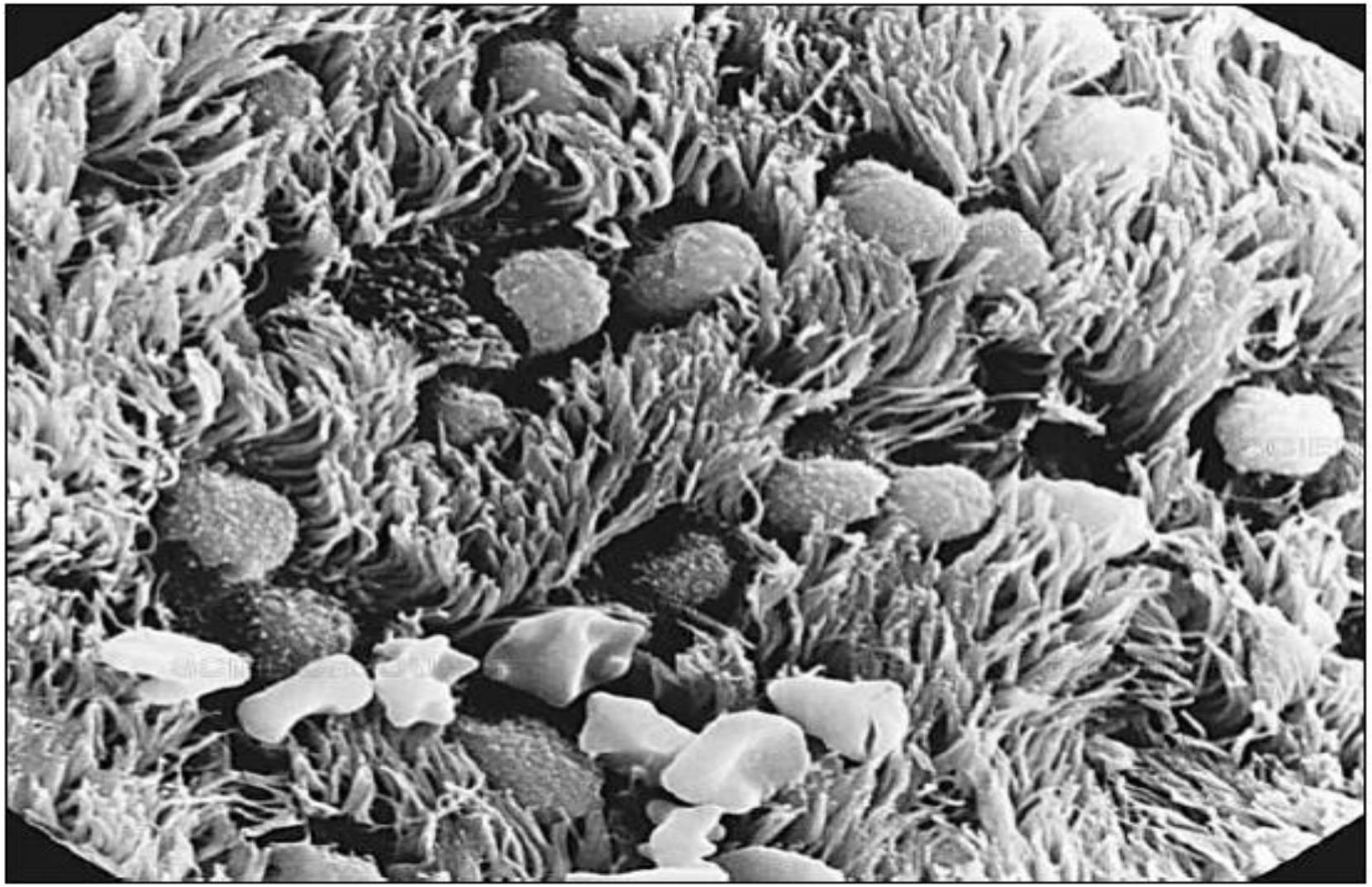


Pseudostratified columnar ciliated with goblet cells

Respiratory Epithelium

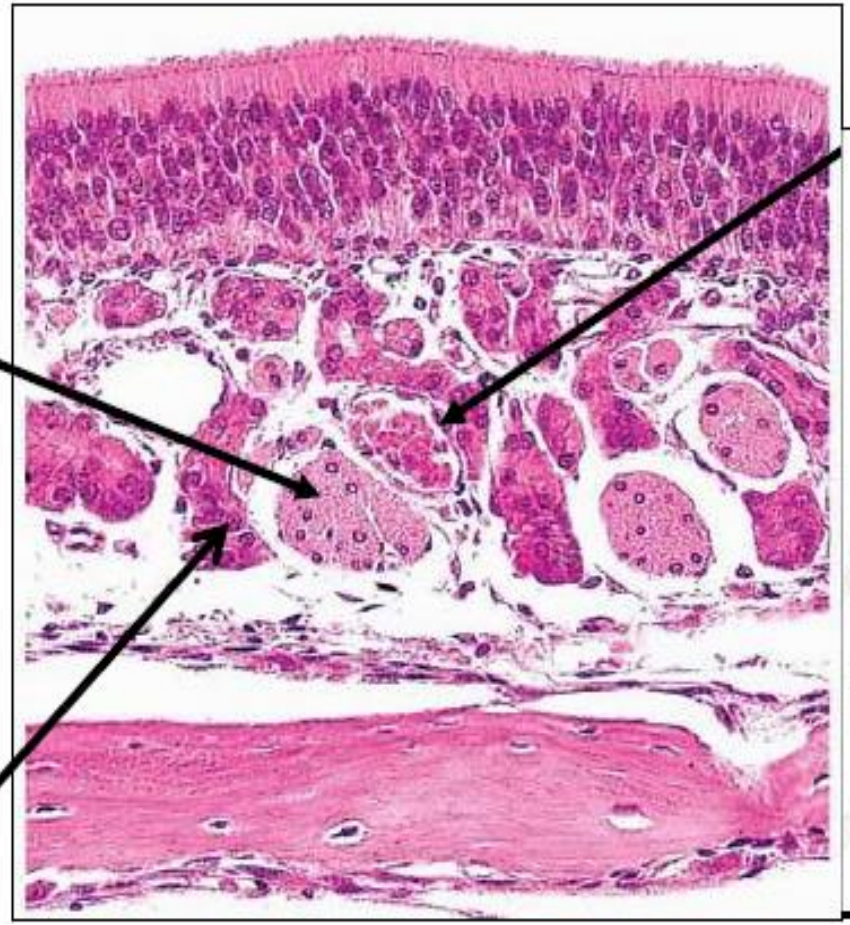


SEM of Respiratory Epithelium



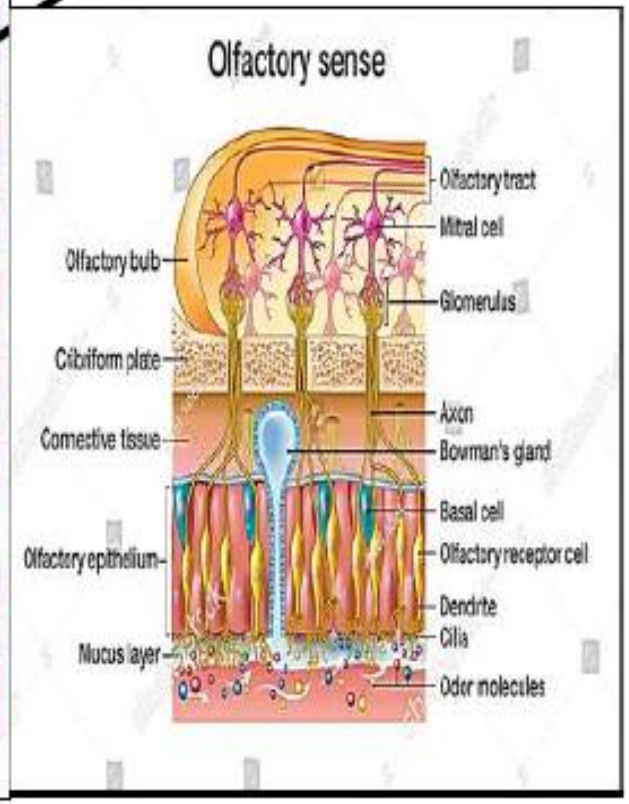
Olfactory Epithelium

Olfactory Filia:
Bundles of olfactory neurons axons, unmyelinated bundles.
20 in # on each side of the nasal cavity .
Form the olfactory nerve



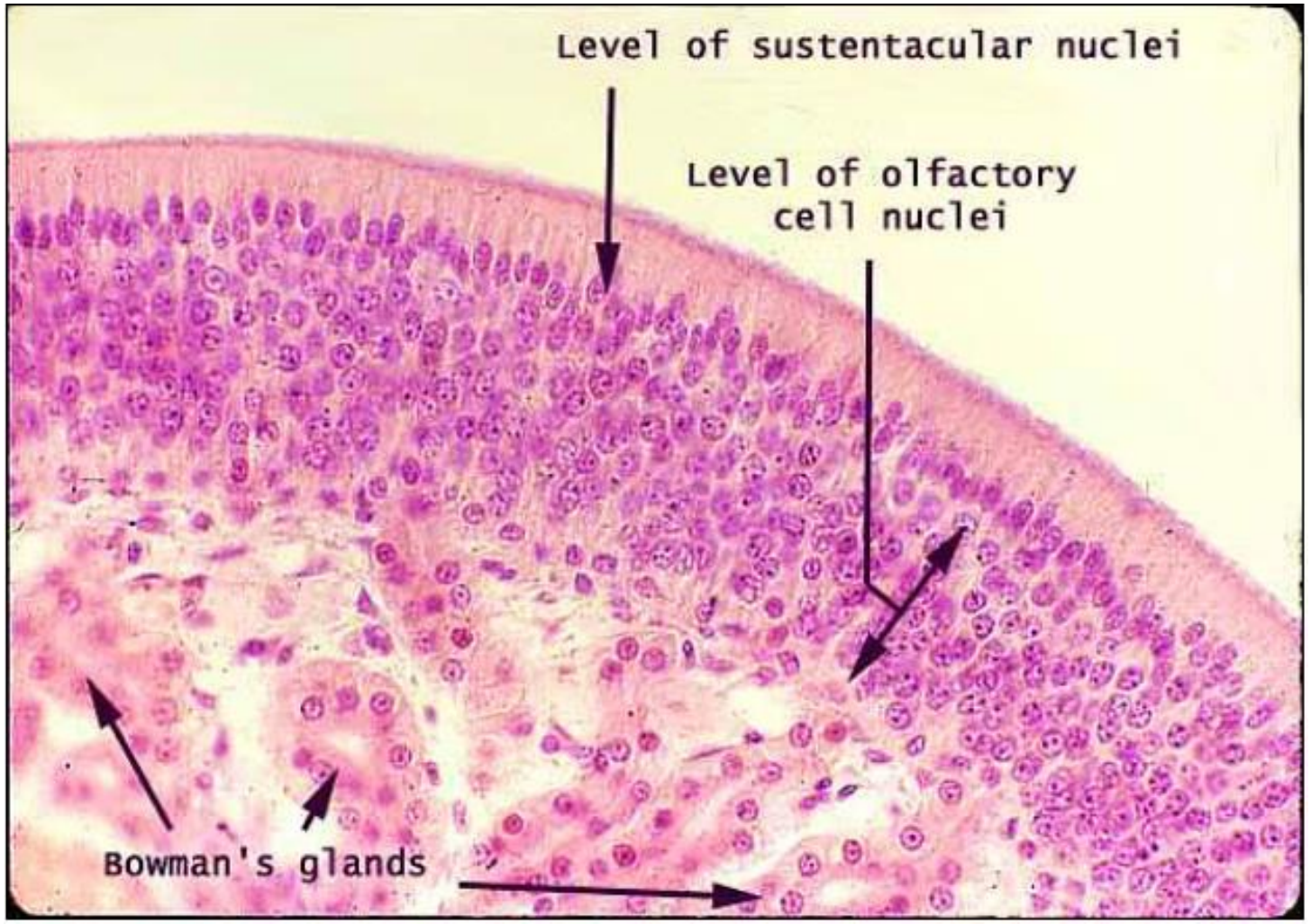
Venous plexus

Bowman's gland

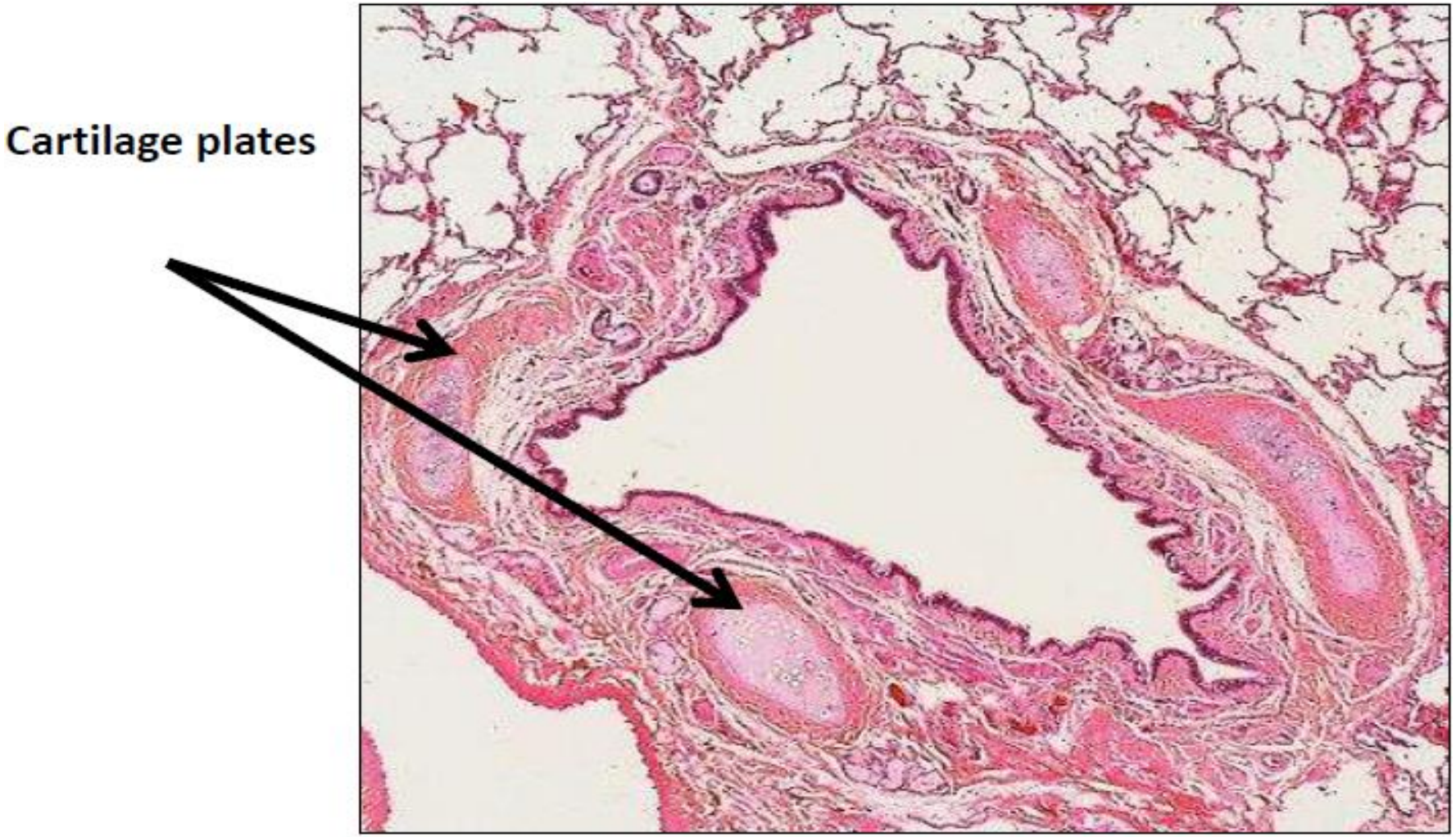


Pseudostratified columnar with chemoreceptors

Olfactory Epithelium

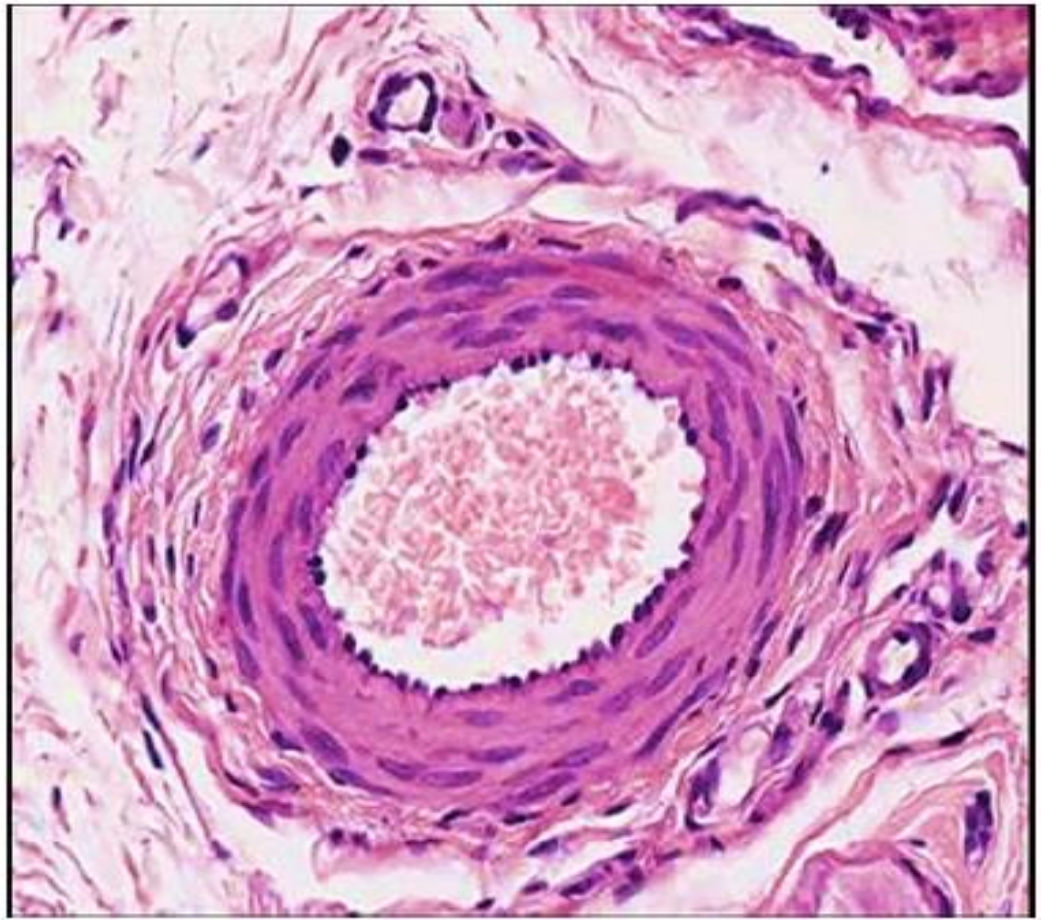


Bronchus



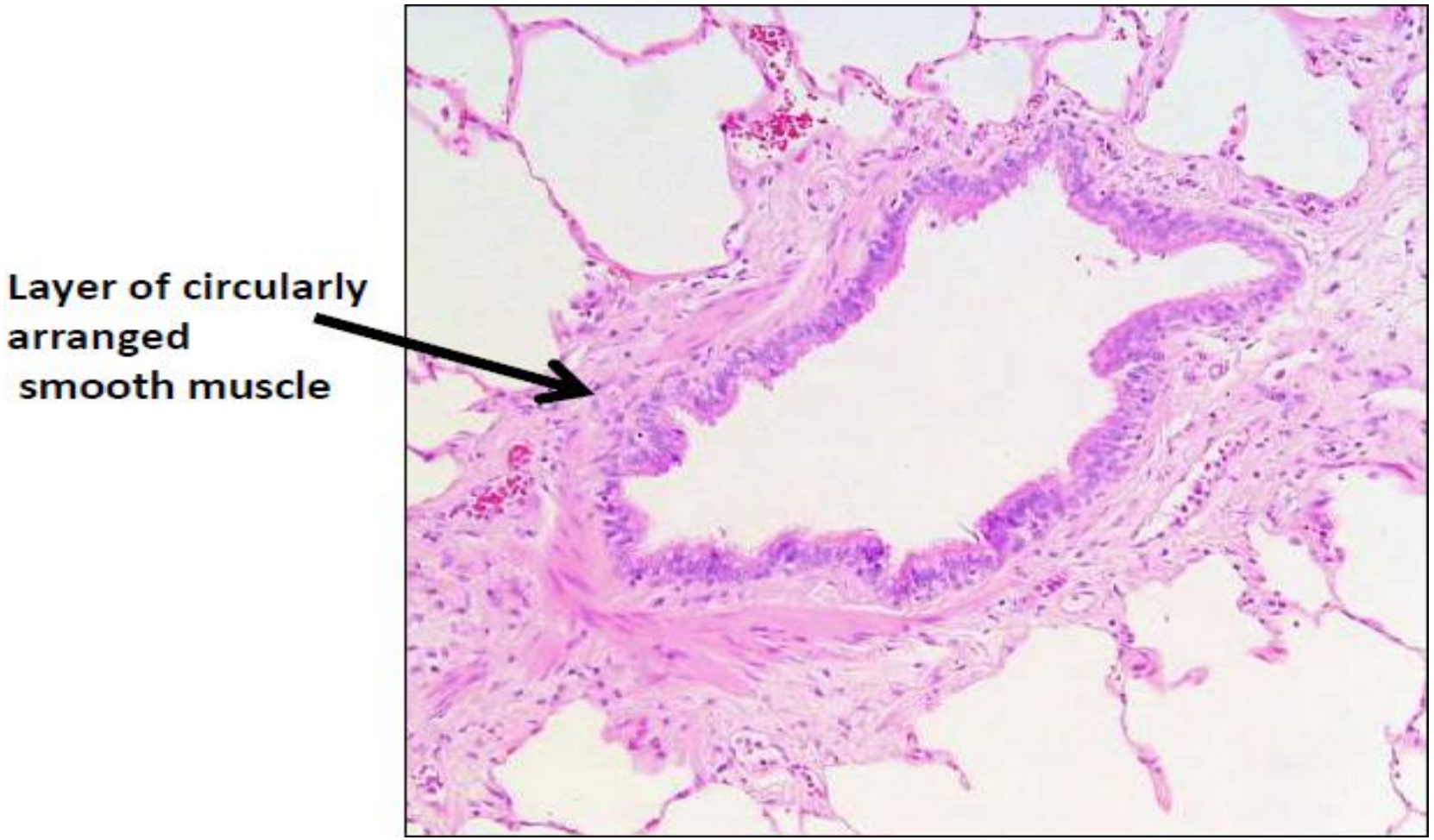
Bronchus and blood vessel

Bronchus

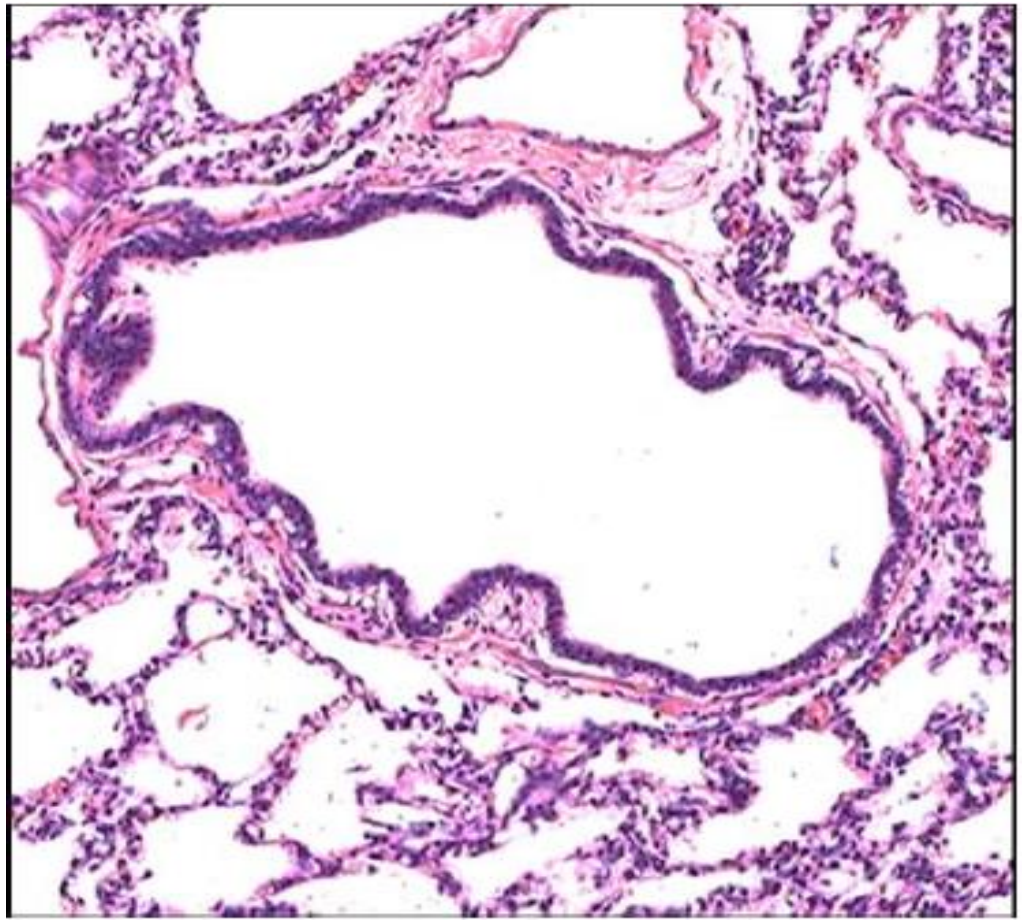


Blood vessel (Artery)

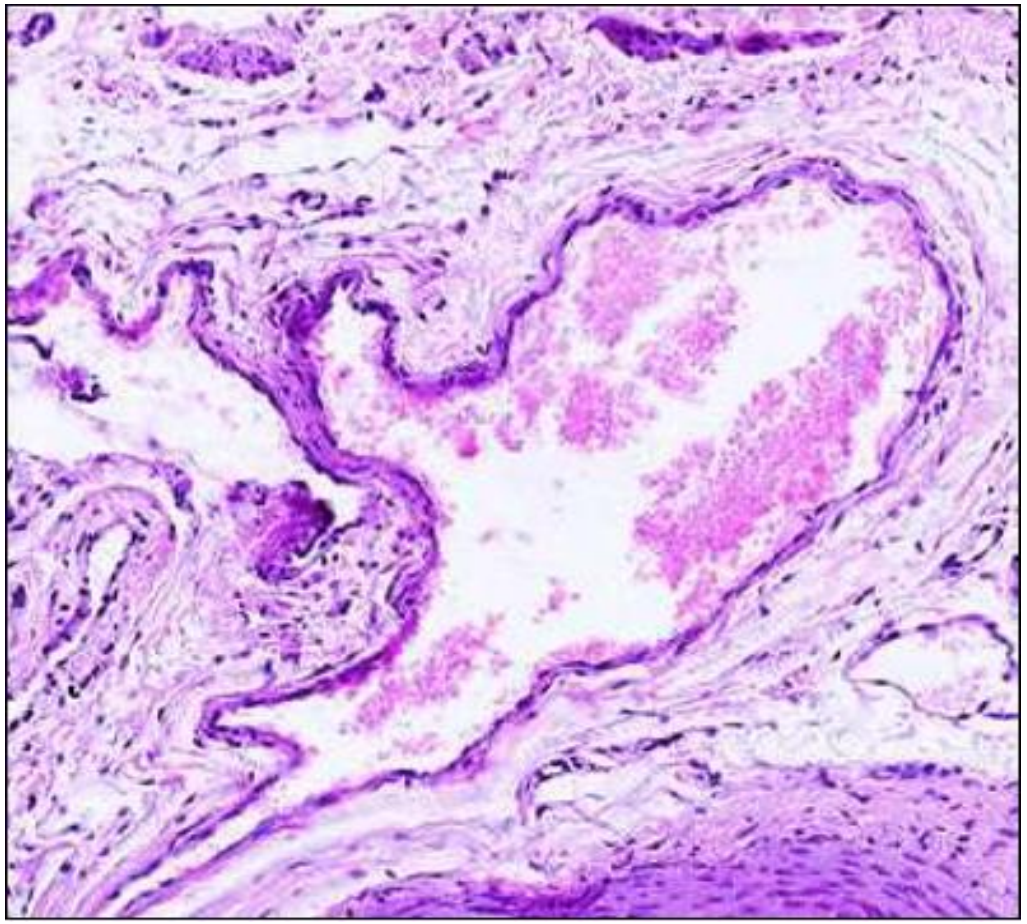
Bronchiole



Bronchiole and blood vessel

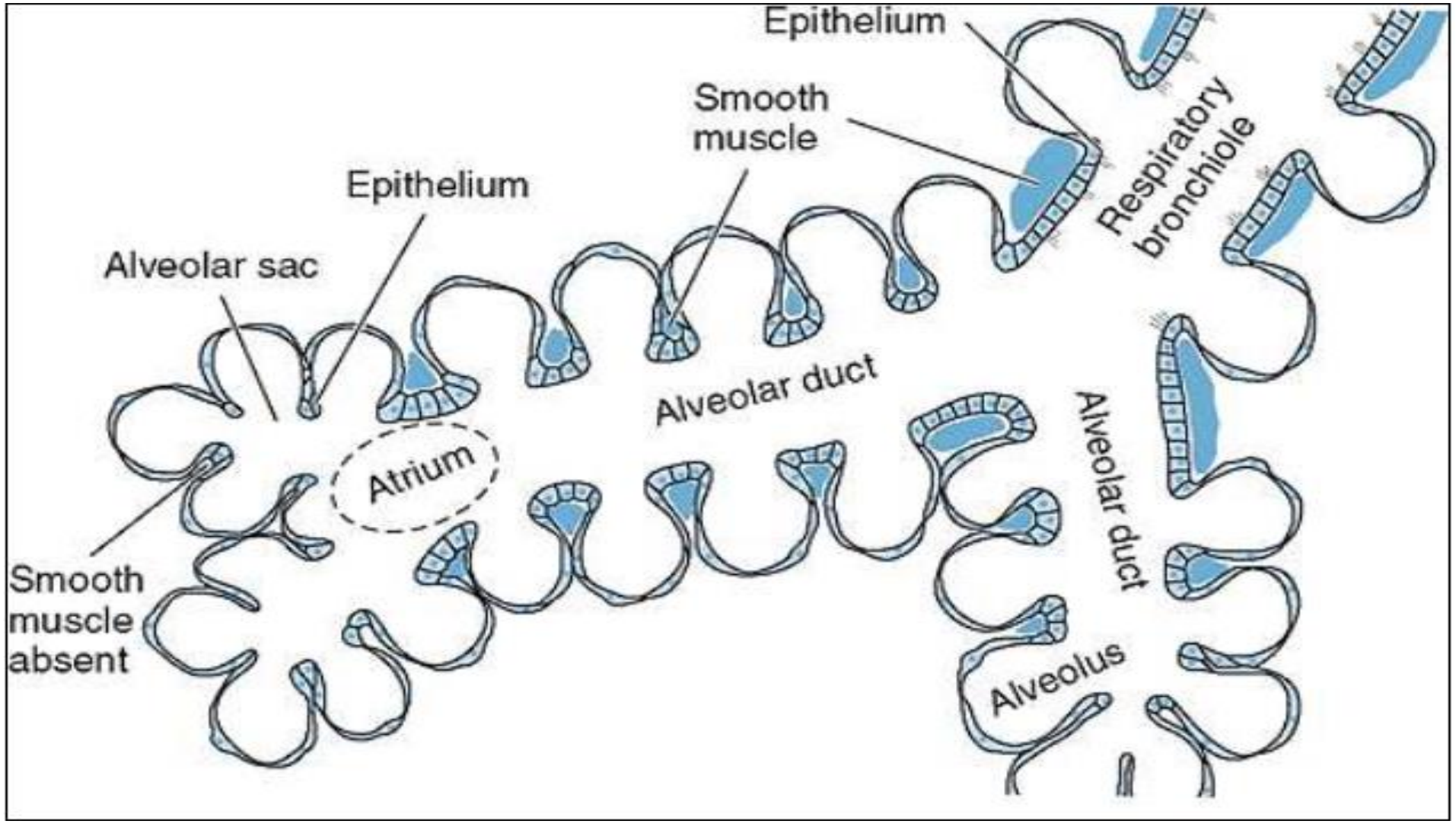


Bronchiole



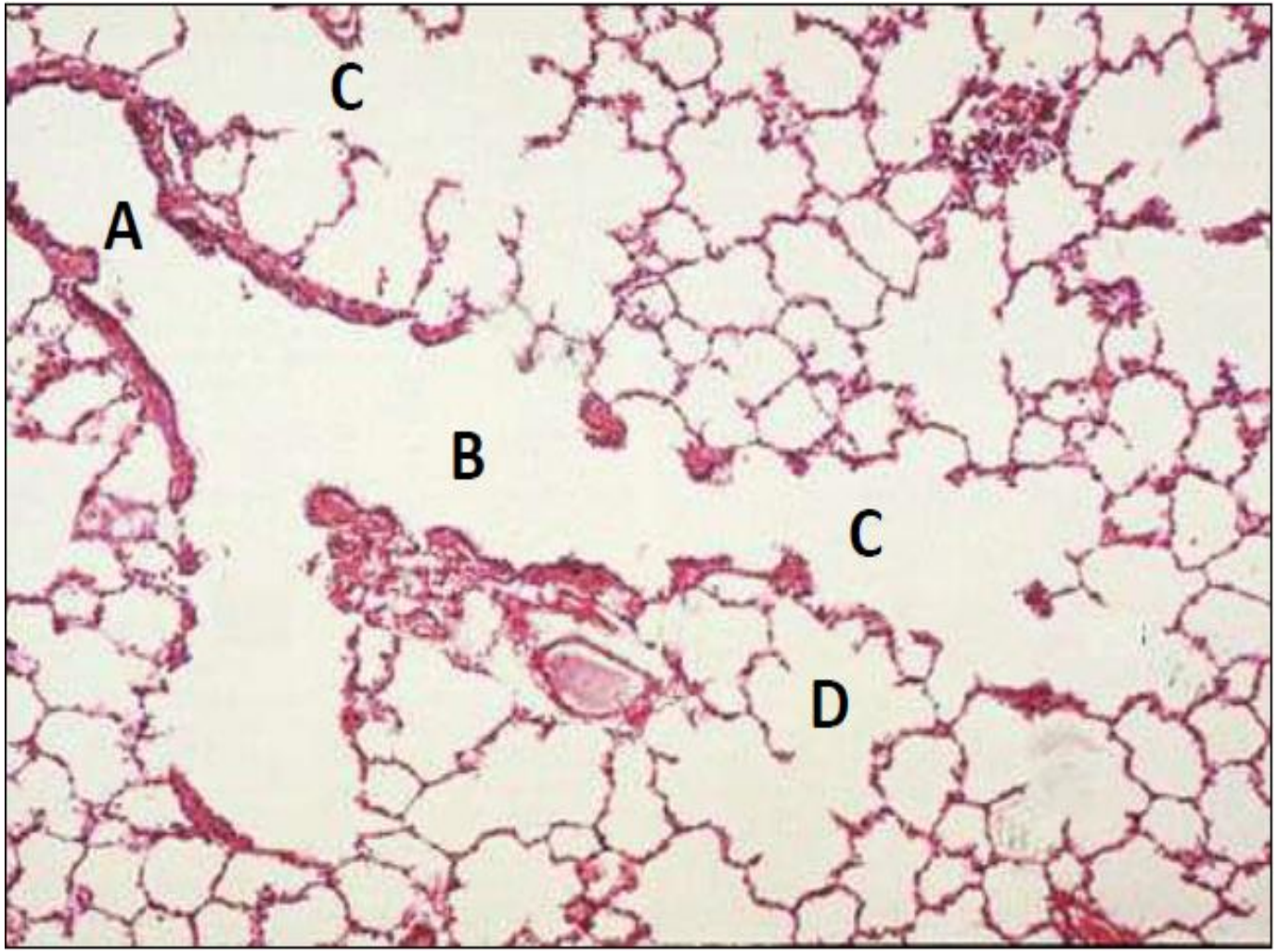
Blood vessel (Vein)

Respiratory Portion

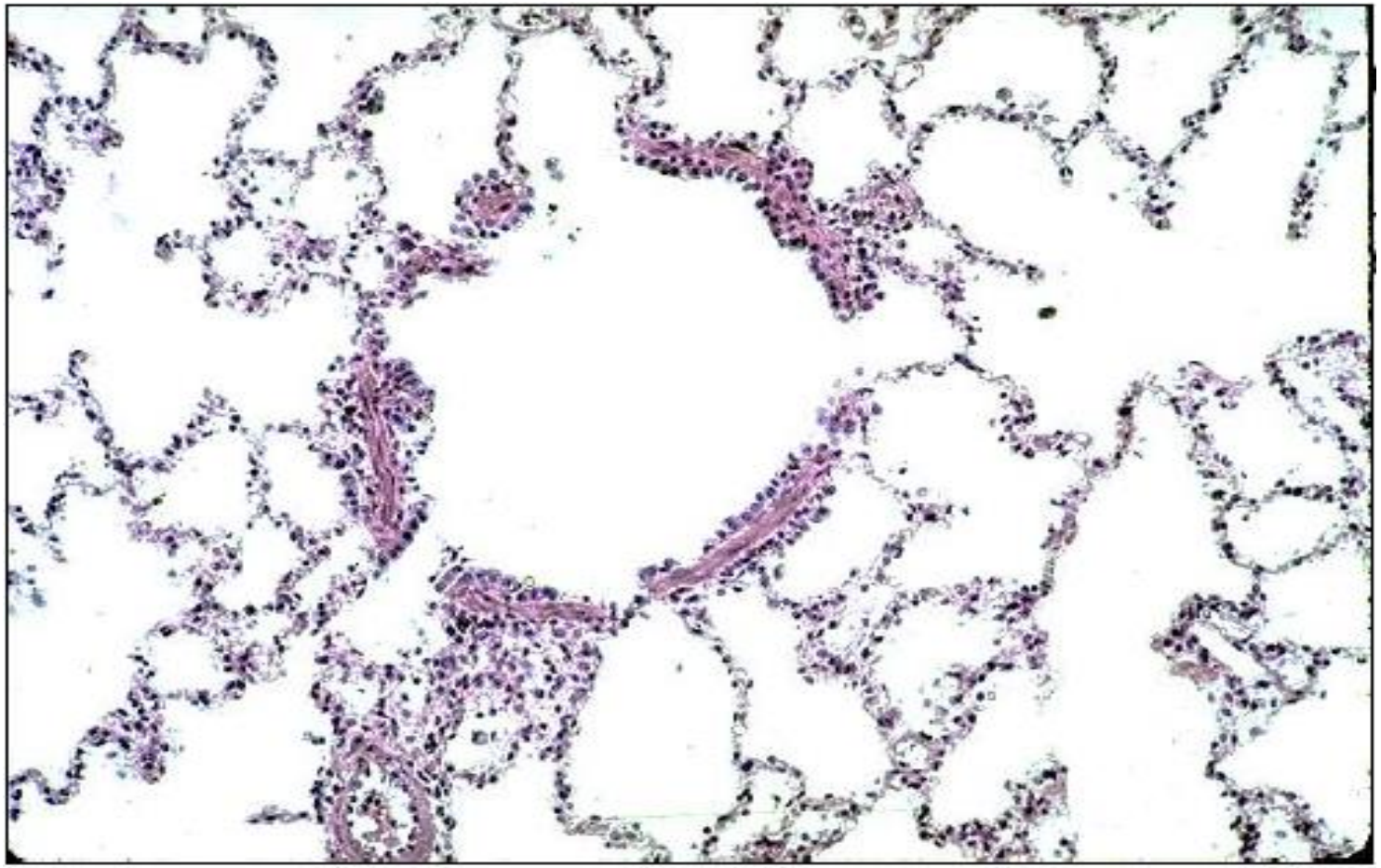


Section in Lung

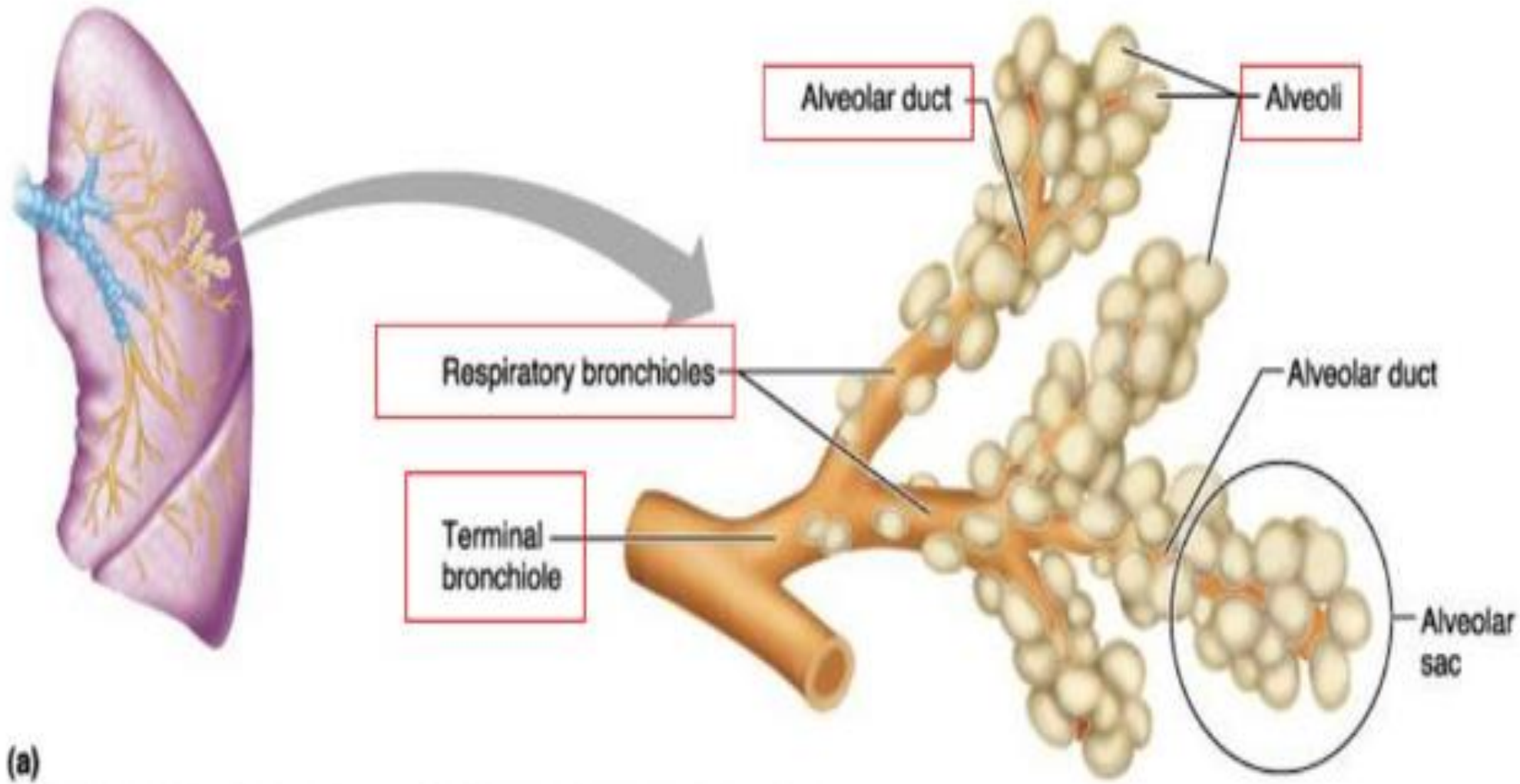
A. Terminal bronchiole
B. Respiratory bronchiole
C. Alveolar duct
D. Alveolar sac



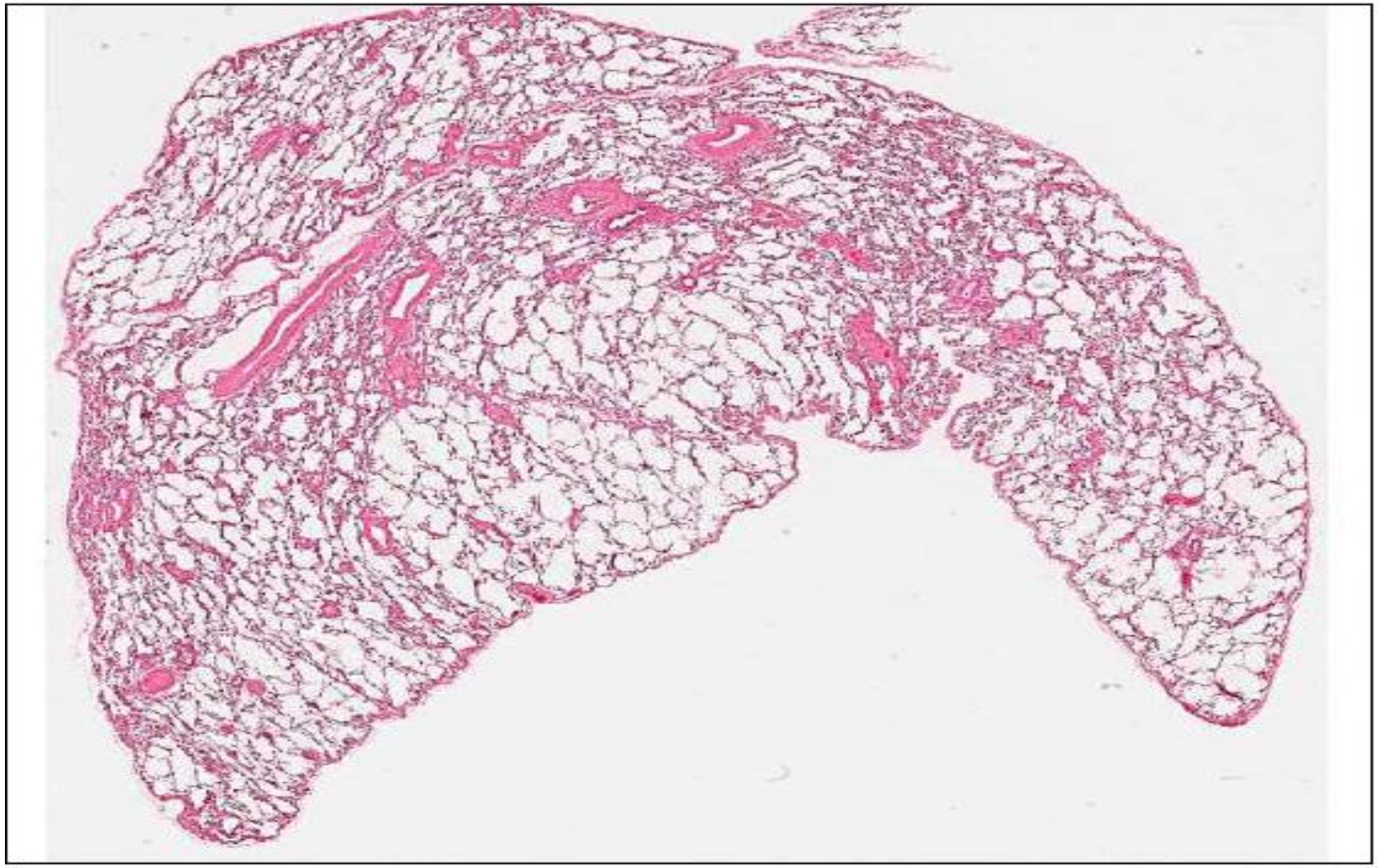
Respiratory Bronchiole



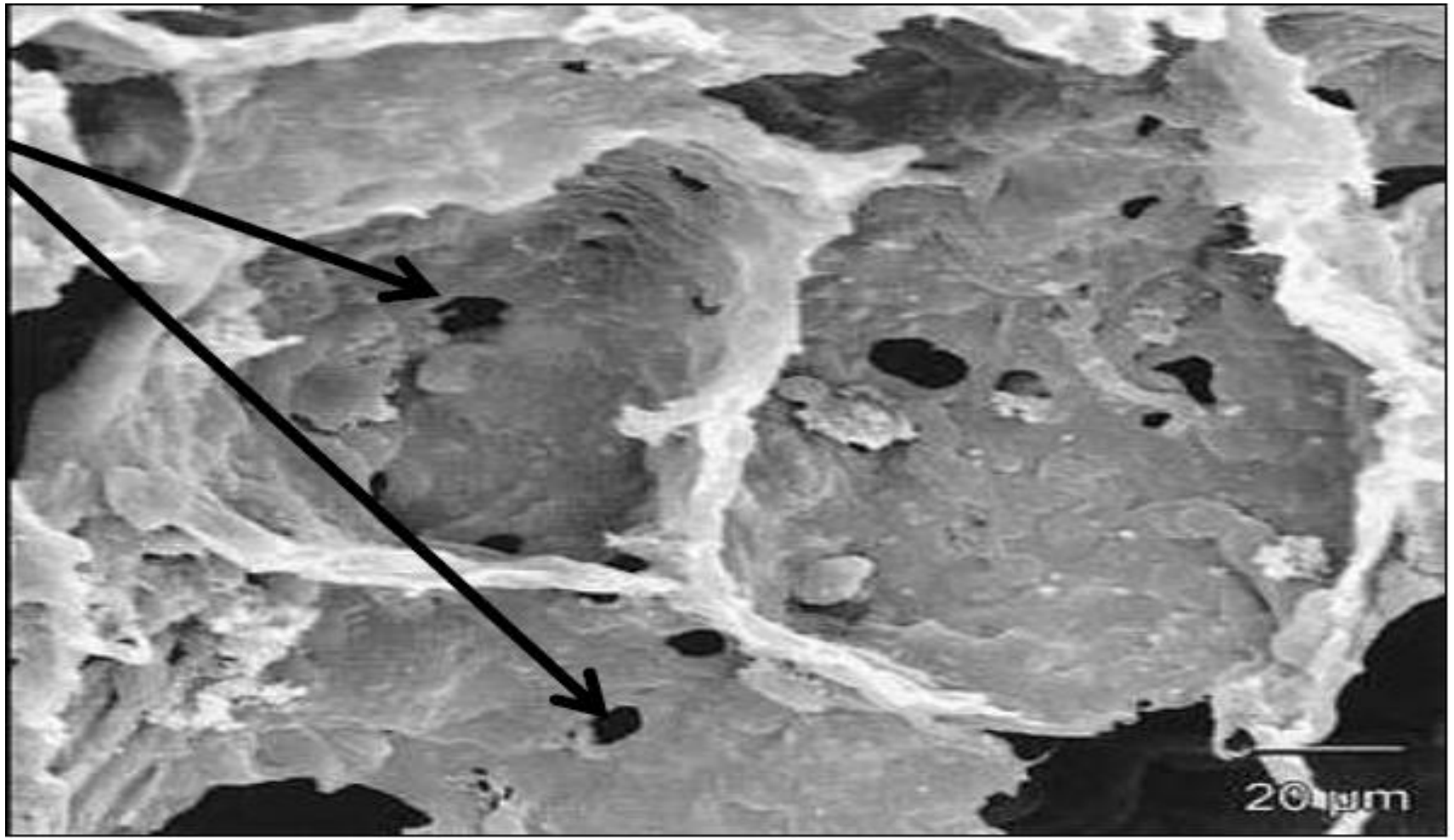
Simple cuboidal ciliated with Clara cells


Alveolar duct
Alveoli
Respiratory bronchioles
Alveolar duct
Terminal bronchiole
Alveolar sac
(a)

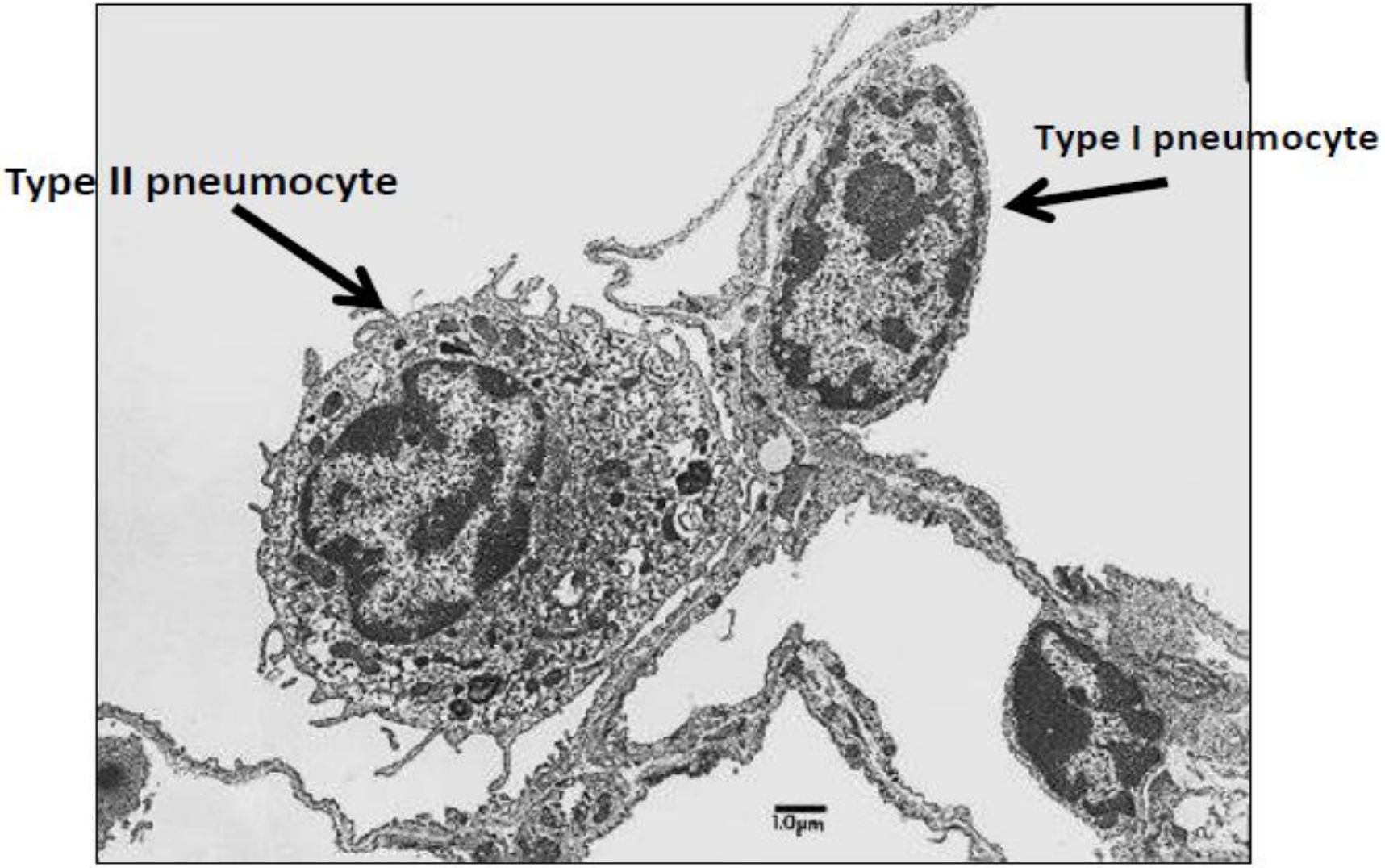
Lung



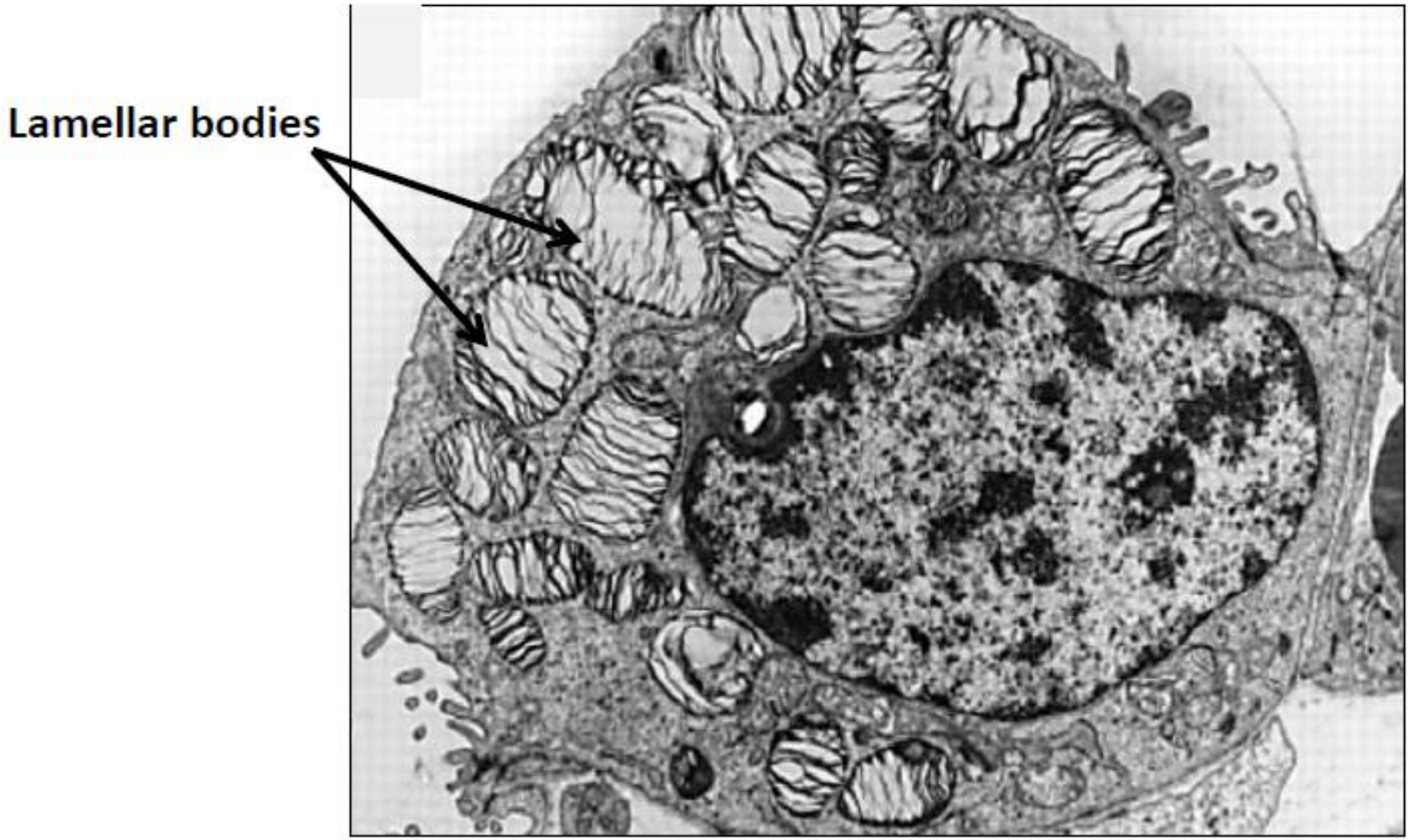
Pores of Kohn (E/M)



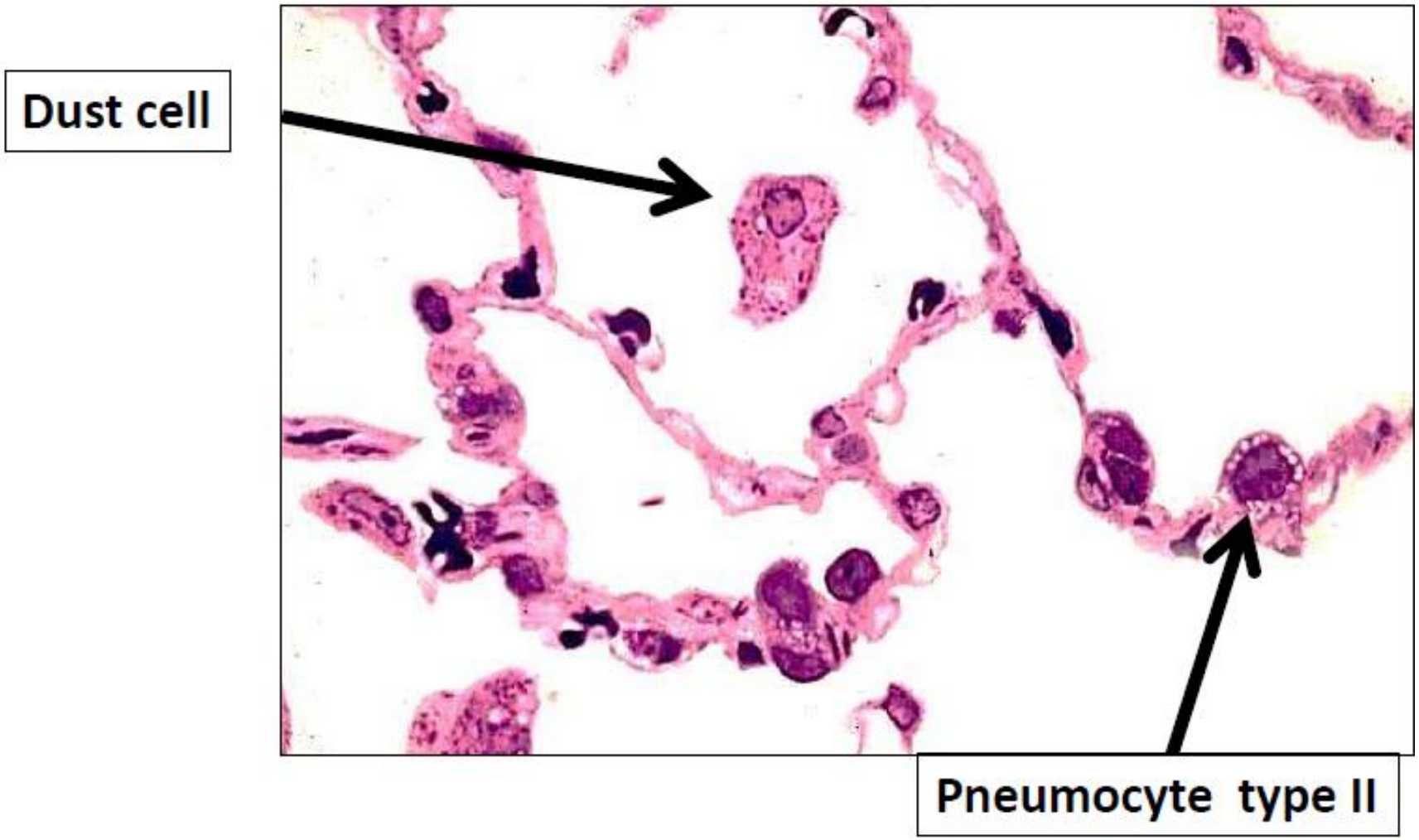
Type I & type II pneumocyte (E/M)



Type II pneumocyte (E/M)

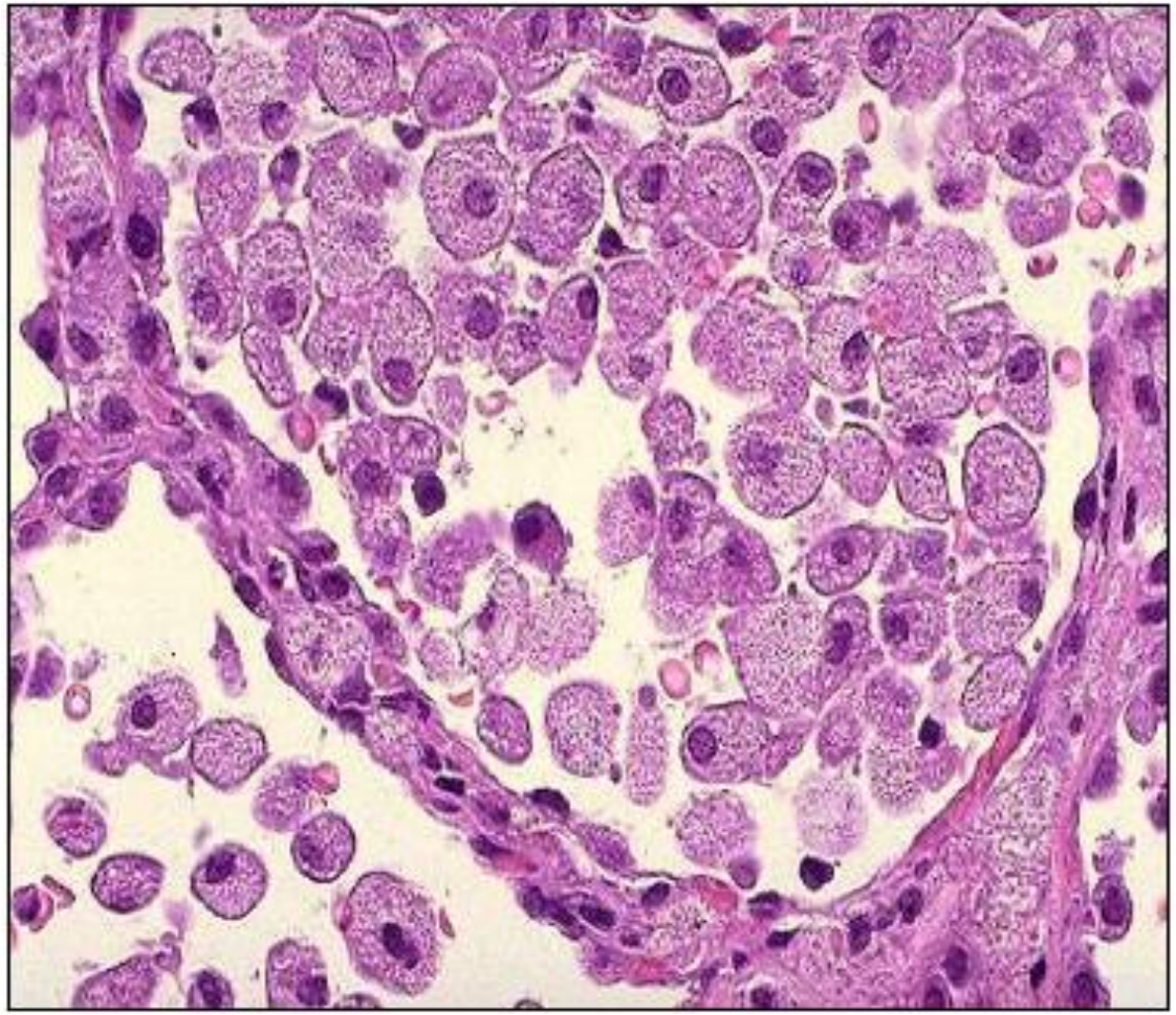


Type II pneumocyte and Dust cell



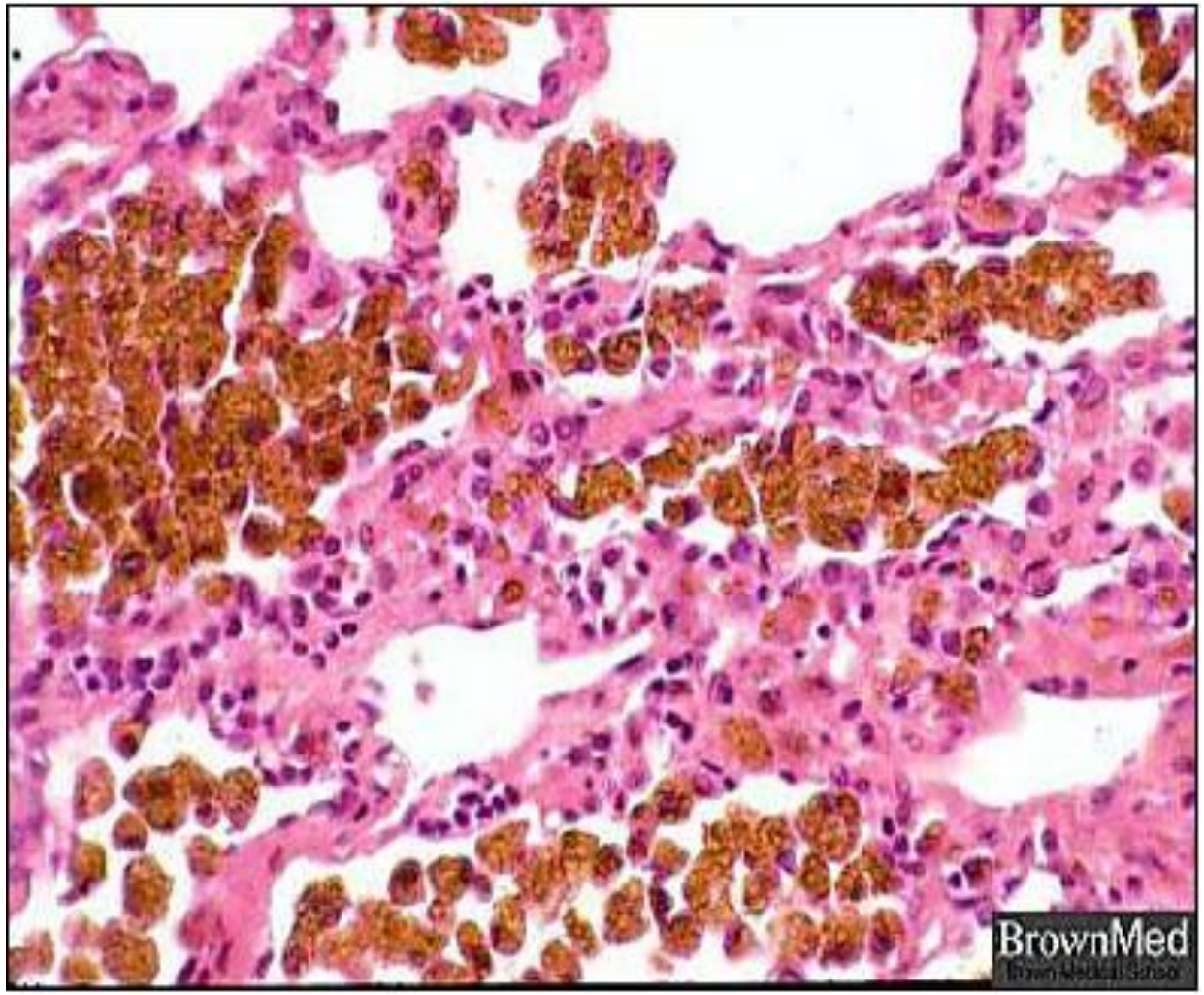
Foamy macrophages

- Foamy macrophage (e.g. endogenous lipid pneumonia)
  - The term endogenous refers to the origin of the lipid material from breakdown of lung, usually distal to the site of an obstructive process (such as a neoplasm, an inhaled foreign body, or bronchiectasis).
  - Blood monocytes become macrophages that collect to ingest the lipid material.



Heart failure cells

- Heart failure cells:
  - Seen in congestive heart failure



Fetal Lung