Motivational Corner:

Winners are not people who never fail, but people who never quit.

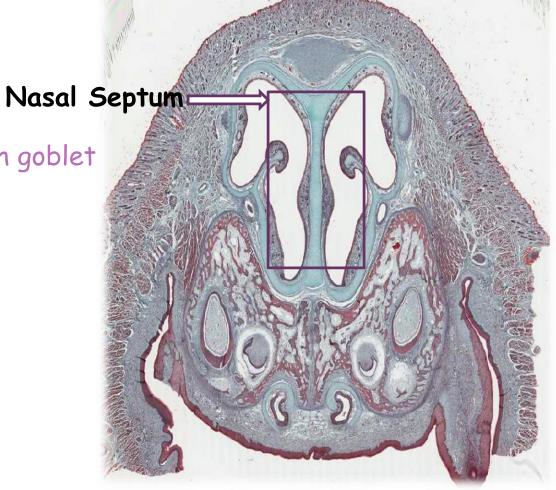


Practical exam revision



Nasal Septa

- 1- Identify ? Nasal cavity and septum.
- 2- Lining epithelium? Pseudo-stratified ciliated columnar epithelium with goblet cells.
- 3-Type of cartilage ? Hyaline cartilage.



+

Respiratory Mucosa

1- Identify ? Respiratory Mucosa.

2-Lining epithelium?

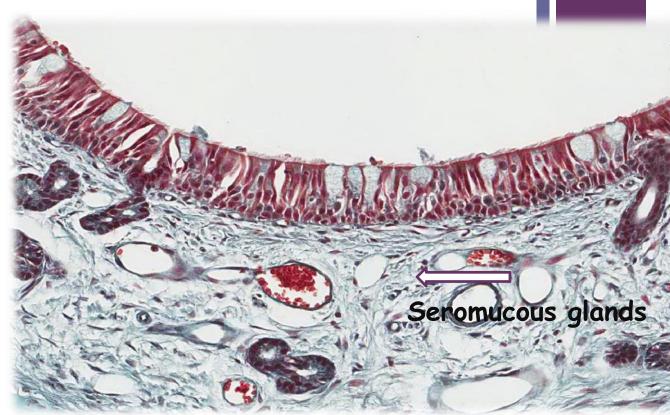
Pseudo-stratified ciliated columnar epithelium with goblet cells.

3-What are the type of cells found in Olfactory epithelium ?

1.Bipolar neural olfactory cells.

2.Sustentacular cells.

3.Basal cells.





Trachea**

1- Identify ? Trachea.

2- Lining epithelium ? Pseudo-stratified ciliated columnar epithelium with goblet cells.

3-Type of cartilage ? C-shaped hyaline cartilage "in adventitia"

4- What is the name of the muscle in this structure and what type is it? Trachealis- Smooth muscle



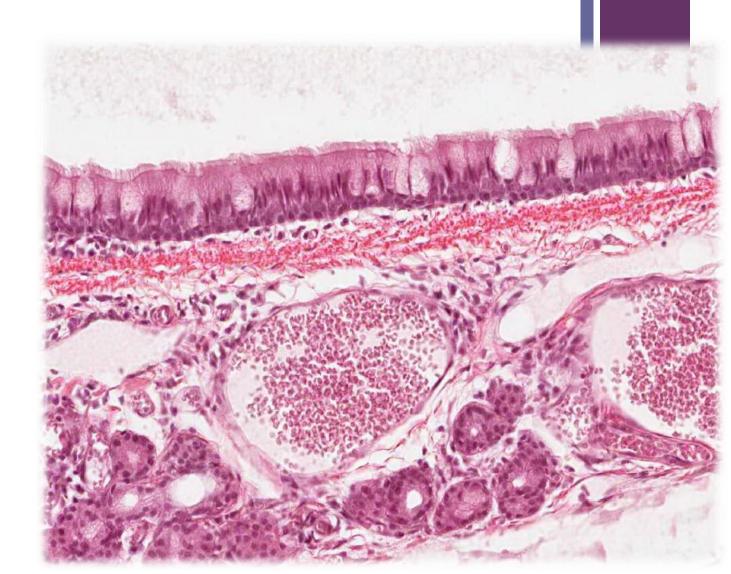
Tracheal Mucosa

1- Identify ? Tracheal Mucosa.

2- Lining epithelium ? Pseudo-stratified ciliated columnar epithelium with goblet cells.

Submucosa contains

- Seromucous glands.
- Lymphoid elements.

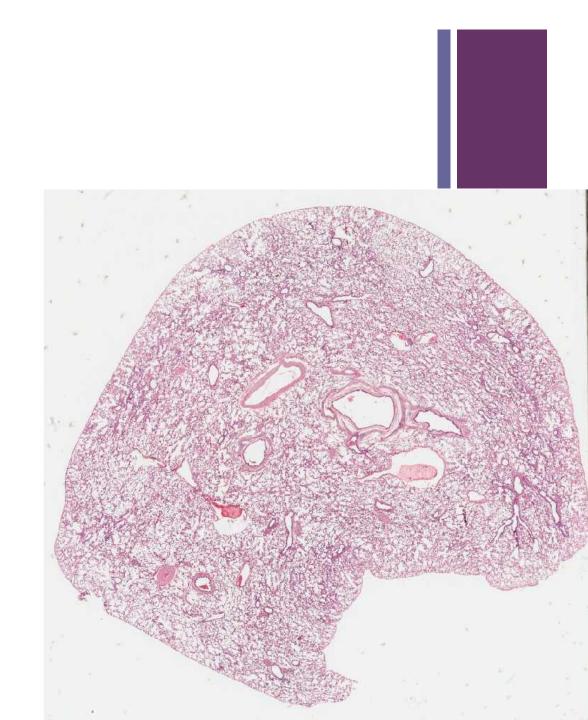


Lung

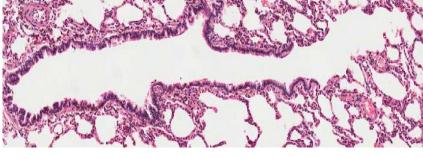
Intrapulmonary Bronchus

Bronchioles

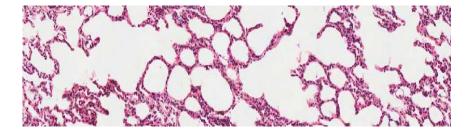
Pulmonary Alveoli



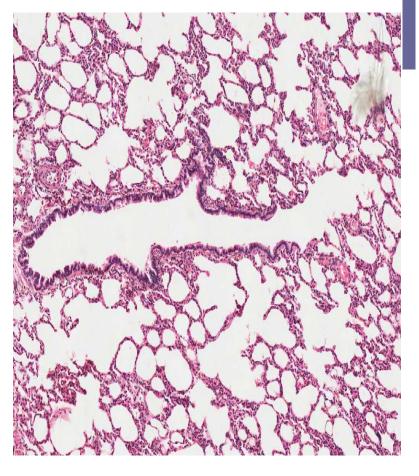
Longitudinal section "LS"



Bronchiole (LS)



Pulmonary Alveoli



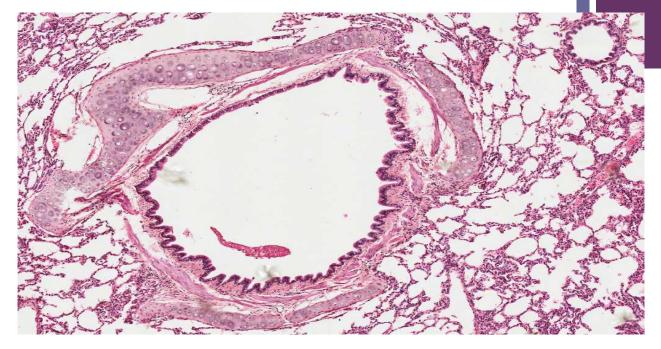
Lung

Intrapulmonary Bronchi *

1- Identify ? Intrapulmonary Bronchi.

2-Lining epithelium? Pseudo-stratified ciliated columnar epithelium with goblet cells.

3-Type of cartilage ? Hyaline cartilage.



Difference between Intrapulmonary and Extrapulmonary Bronchi

Intrapulmonary	Extrapulmonary
Plates of Cartilage	C-shaped Cartilage

Terminal Bronchioles *

1- Identify ?

Terminal Bronchioles (TS)

2-Lining epithelium?

Simple cuboidal partially ciliated epithelium with Clara cells.

(NO goblet cells)

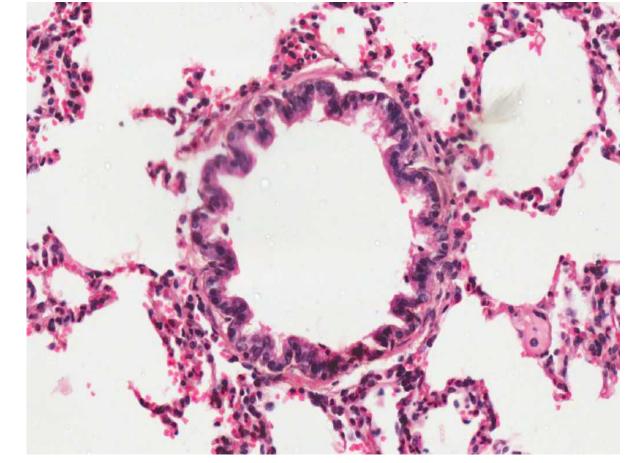
Functions of Clara Cells :

1. Degrade toxins in inhaled air.

2.Divide to regenerate the bronchiolar epithelium.

3.Produce surfactant-like material

Terminal Bronchioles

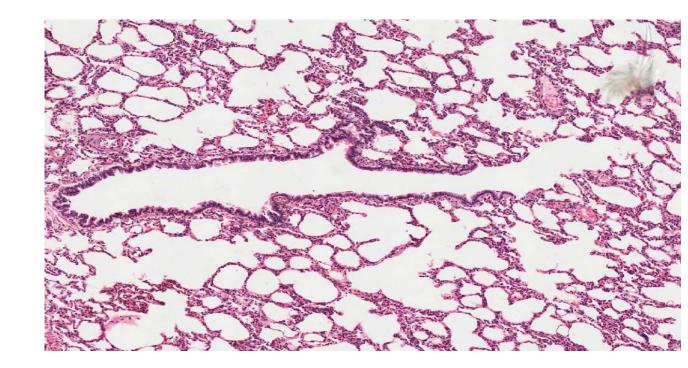


Pulmonary Alveoli *

1- Type of epithelium ? Simple squamous epithelium

2-What are the type of cells found in Alveoli epithelium ?

- 1. Type I Pneumocytes.
- 2. Type II Pneumocytes.



	Type I Pneumocyte	Type II Pneumocyte
Function	Gas Exchange	Secrete Surfactatnt
Structure	Simple Squamous "Flattened"	Cuboidal "Rounded"

□ Interalveolar Septum: is a region between 2 adjacent alveoli

Dust Cells "Macrophages"
Site: In the Lumen of Alveoli and in the interalveolar septa
Structure: Irregular

□ Blood Gas Barrier Components

- 1. Surfactant
- 2. Type I Pneumocyte epithelium
- 3. Endothelial cells

4. Basement membrane of both type I pneumocyte and endotheium cells of pulmonary capillaries



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Thanks for checking our work, Good luck.

-Special Thanks to Histology team 434.



-Team histology.

HISTOLOGY