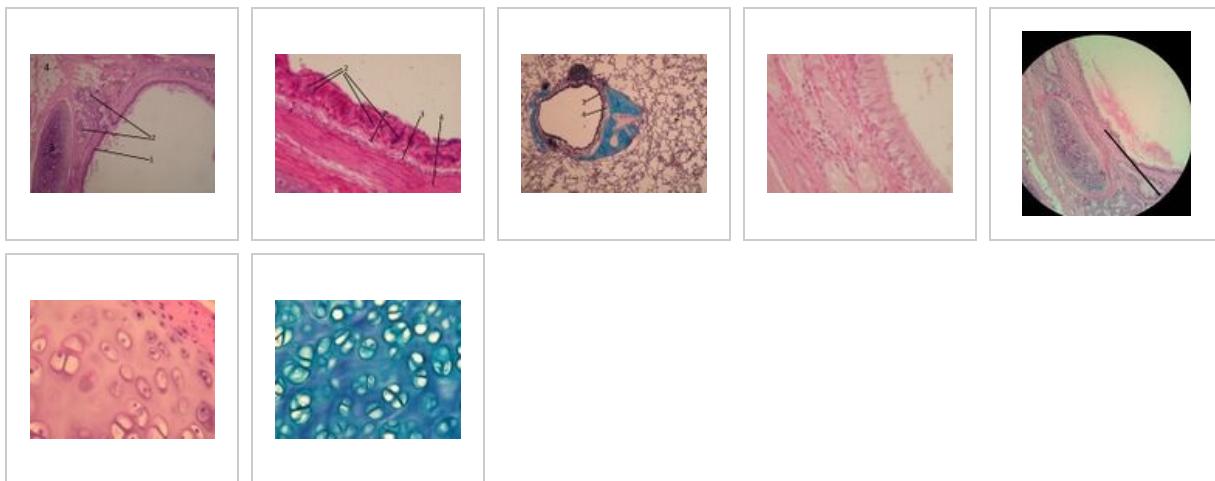


Bronchus segmentalis SFLT

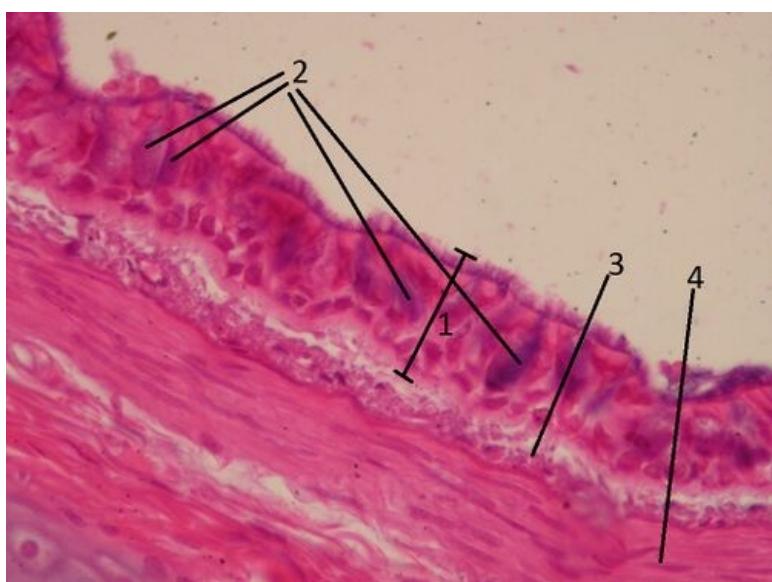


Bronchus - low magnification (hematoxylin-eosin staining)



Description: The mucous membrane of the bronchus is lined with a multi-row cylindrical epithelium with cilia. Underneath it is a loose collagenous tissue. In the wall we see hyaline cartilage and seromucinous glands.

Bronchus - multi-rowed cylindrical epithelium with cilia (hematoxylin-eosin staining)



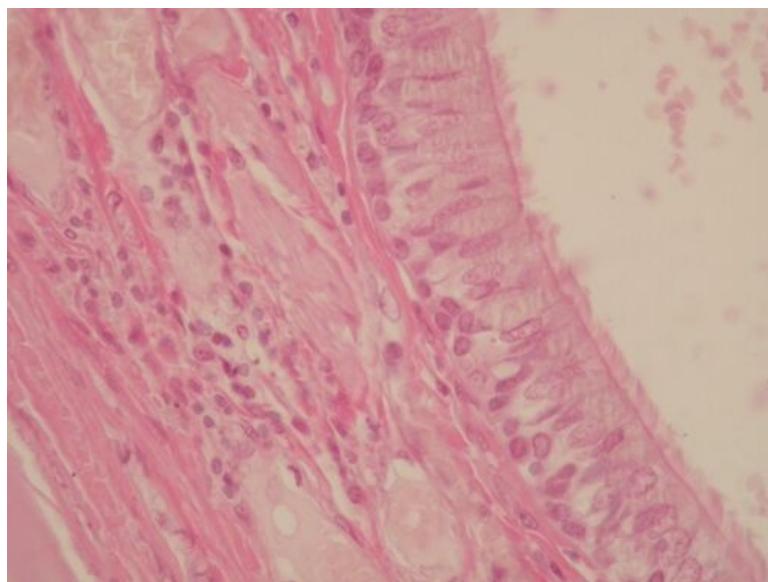
Description: In stratified epithelium, all cells reach the basal lamina, but their nuclei are located at different heights. It appears as if the cells form layers. Epithelium contains ciliated cells, basal cells [[goblet cell|goblet cells] and brush border cells. Mucin is stained blue in the goblet cell.

Intrapulmonary bronchus (staining - Alcian blue, hematoxylin-eosin)



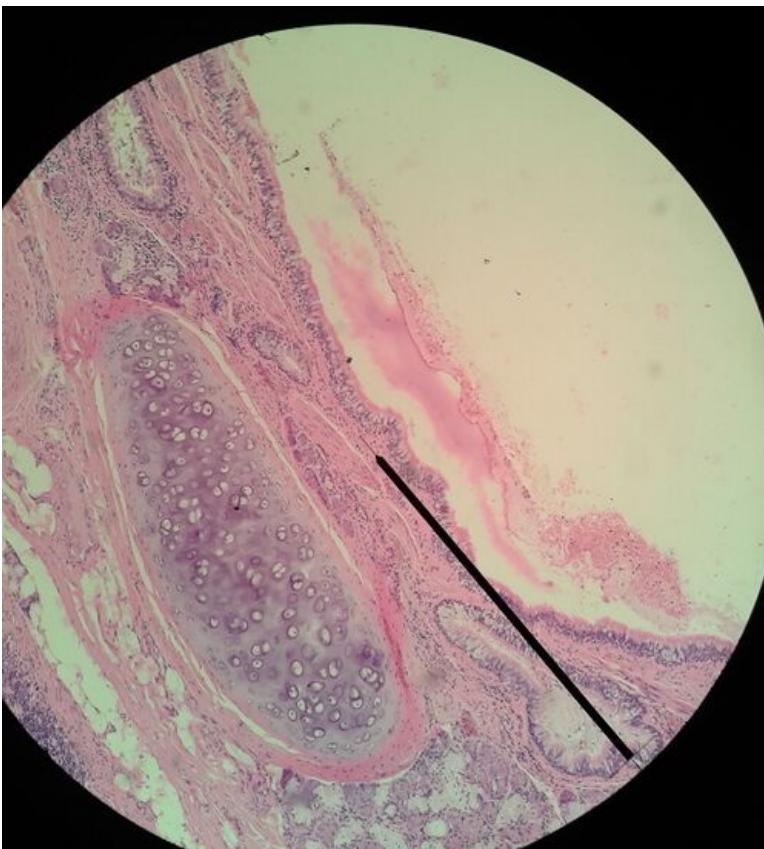
Description: Hyaline cartilage in the bronchus is colored blue. A lymph node (follicle) can be seen in the wall above. The bronchus is surrounded by lung tissue (single-layered squamous epithelium).

Bronchus - multi-row cylindrical epithelium with cilia (hematoxylin-eosin staining)



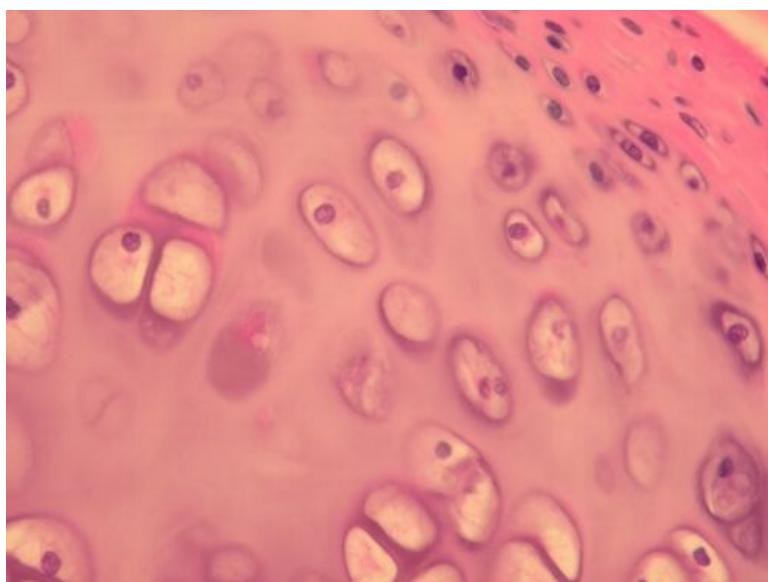
Description: The stronger staining line represents the basal bodies of the cilia. Nuclei are stored in multiple rows, all cells are attached to the basal lamina.

Bronchus (hematoxylin-eosin stain)



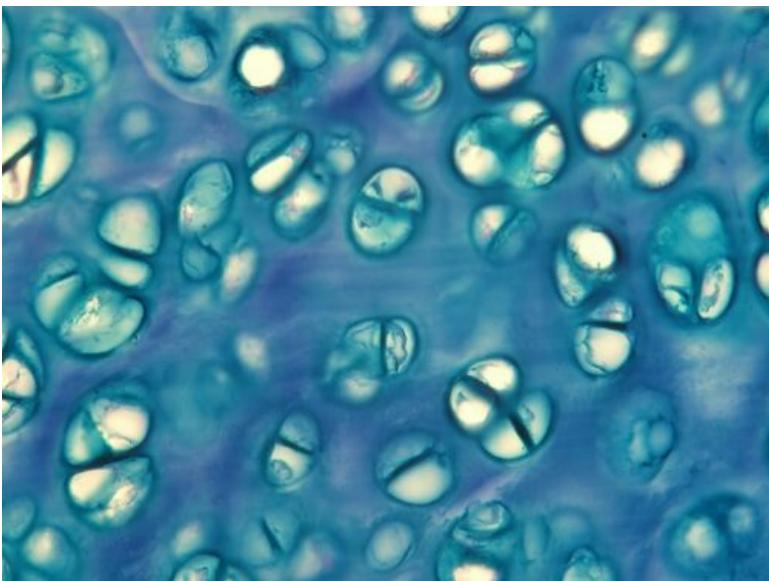
Description: The wall of the bronchus consists of the **mucosa** (multi-rowed cylindrical epithelium with cilia and lamina propria - sparse collagen tissue), **tunica fibro-musculo-cartilaginea**, containing collagen tissue with an admixture of elastic fibers, smooth muscle and hyaline cartilage. Externally **tunica adventitia** is found. Mixed sero-mucinous glands are found in the ligament in the wall of the bronchus. On the preparation, relatively wide outlets of these glands can be seen.

Bronchus - hyaline cartilage



Description: Chondrocytes are stored in lacunae, which are surrounded by intercellular matrix. On the surface of the cartilage we see perichondrium (collagenous tissue). The cells of the perichondrium differentiate into chondrocytes - they gradually become rounded.

Hyaline cartilage - bronchus (staining - alcian blue)



Description: Chondrocytes lie in lacunae. Several chondrocytes lying in close proximity form **isogenetic group**.

Respiratory system

- Epiglottis (SFLT)
- Larynx (SFLT)
- Trachea (SFLT)
- Bronchus segmentalis (SFLT)
- Lungs (SFLT)
- Fetal lungs (SFLT)

Links

- Histological atlas (3. LF UK)