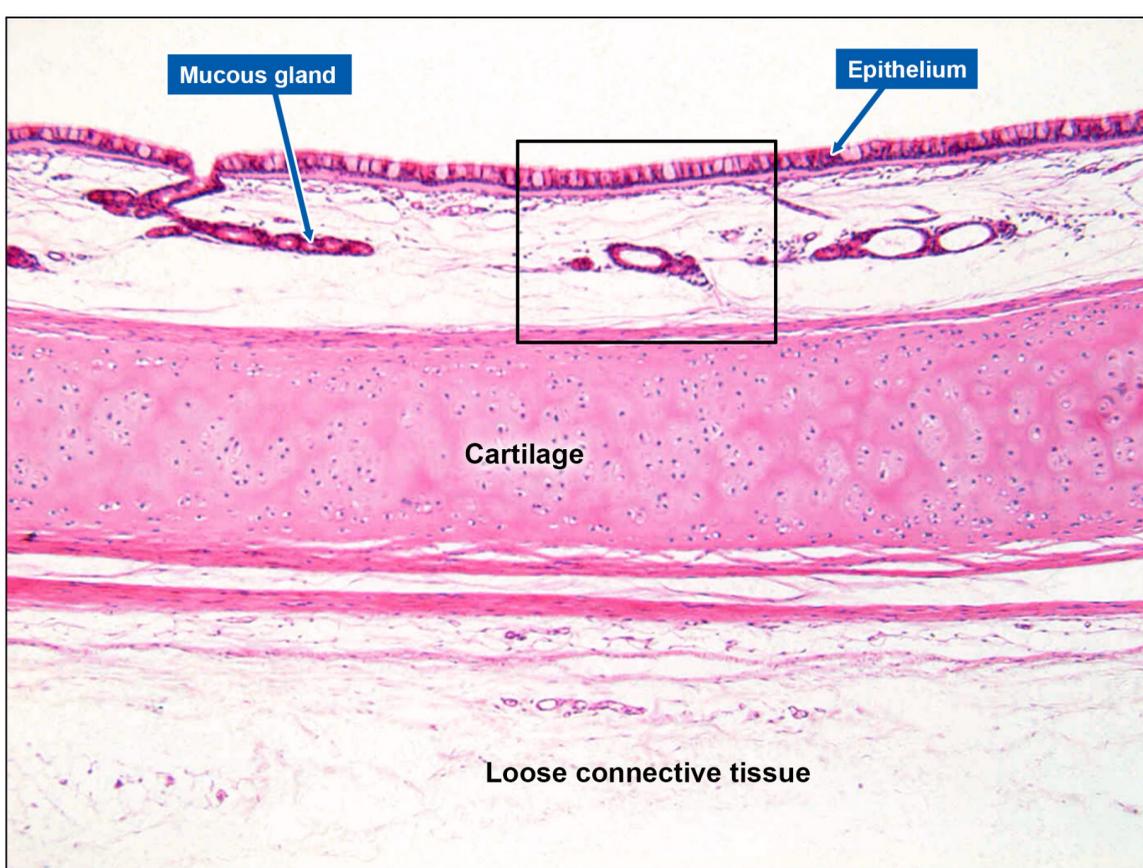


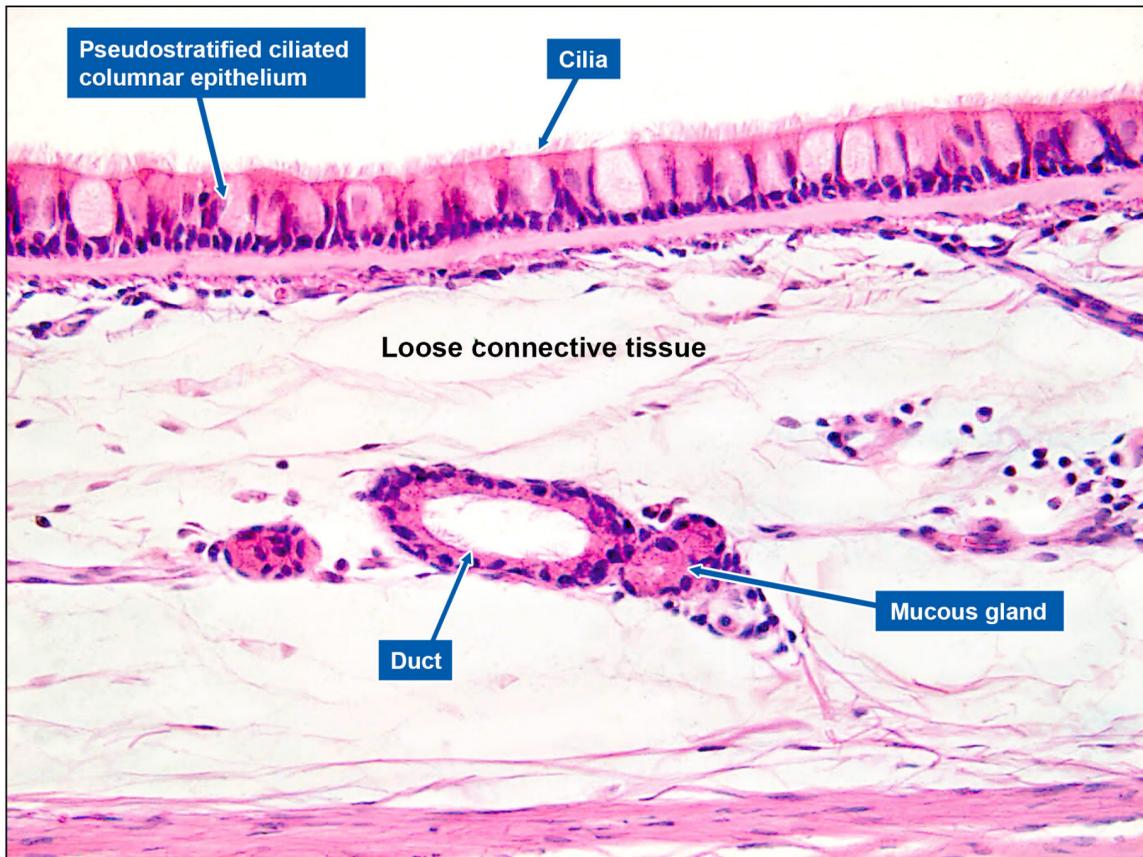
TRACHEA

Cell & Tissues of the Body

The Epithelial cells found in the interior of the upper respiratory tract, nasal passage, and lower respiratory tract are **Pseudostratified Ciliated Columnar Epithelia with Goblet cells (Respiratory Epithelia)**.



Low magnification



High magnification

1. Pseudostratified columnar epithelia are tall and irregular cells linked to the basement membrane, however, giving the appearance of many layers.
2. It appears stratified because the nuclei of each cell are present on different levels.
3. The lining of the upper respiratory tract is also ciliated. Cilia are long projecting structures that are bigger than microvilli and have internal microtubule arrays.
4. The goblet cells' main role is to produce mucin and form a protective mucus layer. The mucus encapsulates germs and particles inside the respiratory tract. Goblet cells also have immunoregulatory functions.
5. Chronic bronchitis is a condition in which the amount of goblet cells lining the airways increases. This leads to excessive mucus production and eventually airway blockage.