# INTHE NAME OF GOD



### Major glands

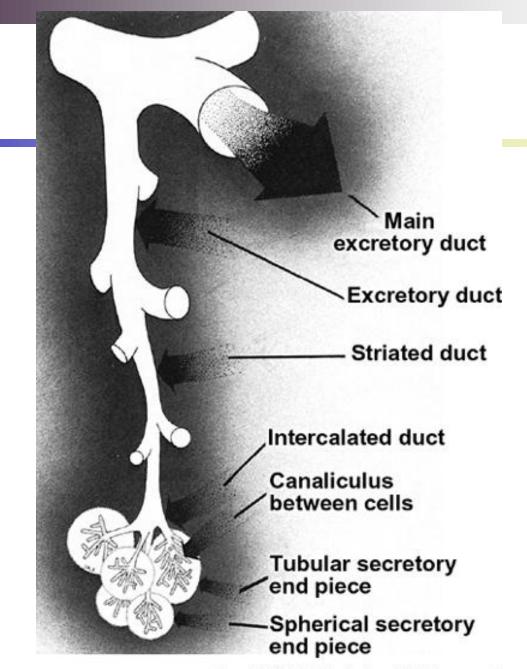
- Parotid: so-called watery serous saliva rich in amylase, proline-rich proteins
  - □ Stenson's duct
- Submandibular gland
  - $\square$  Wharton's duct
- Sublingual:
  - □ ducts of Rivinus; duct of Bartholin



## Minor glands

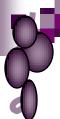
Minor salivary glands are not found within gingiva and anterior part of the hard palate

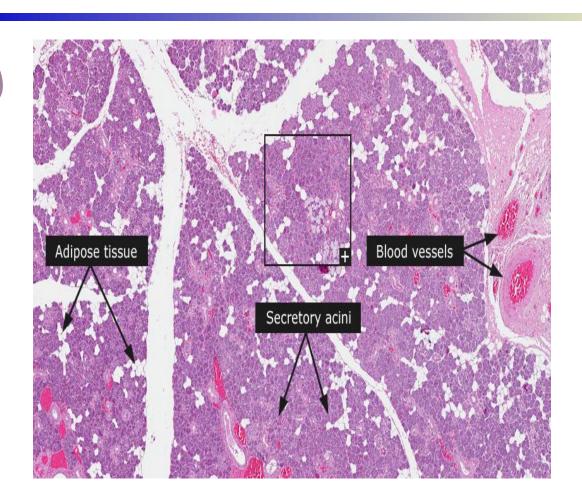
 Serous minor glands=von Ebner below the sulci of the circumvallate and folliate papillae of the tongue

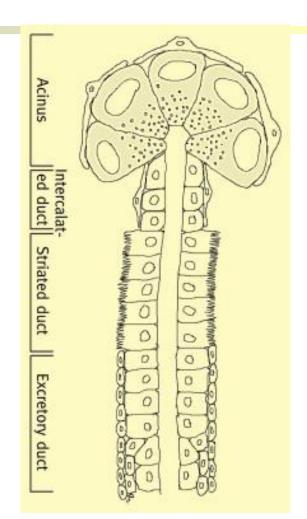


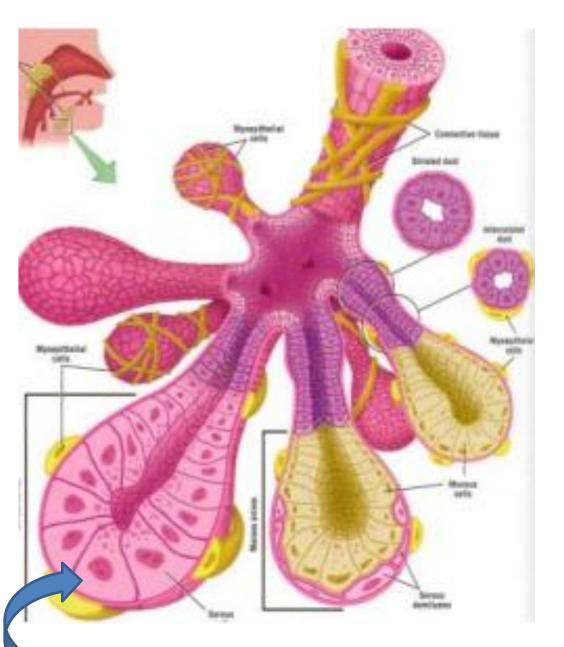
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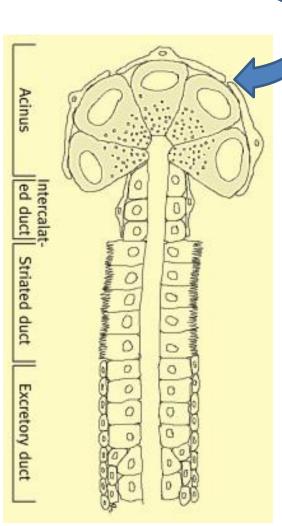
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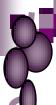






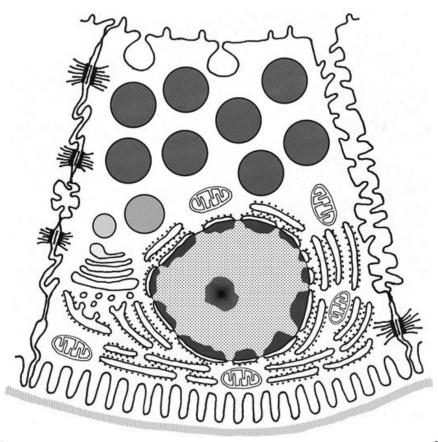


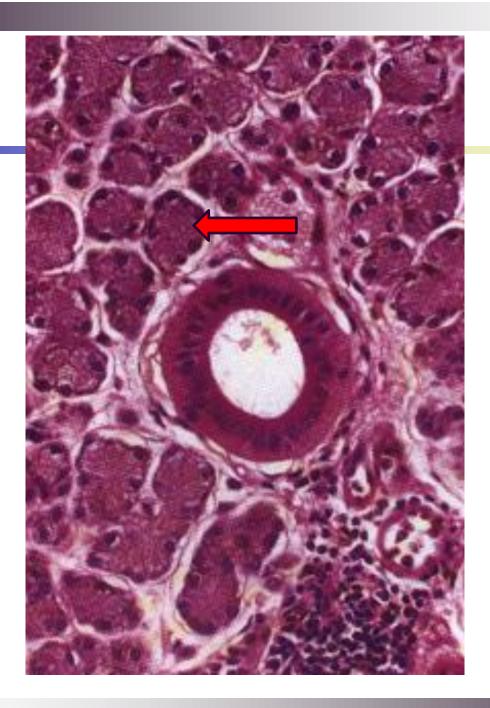


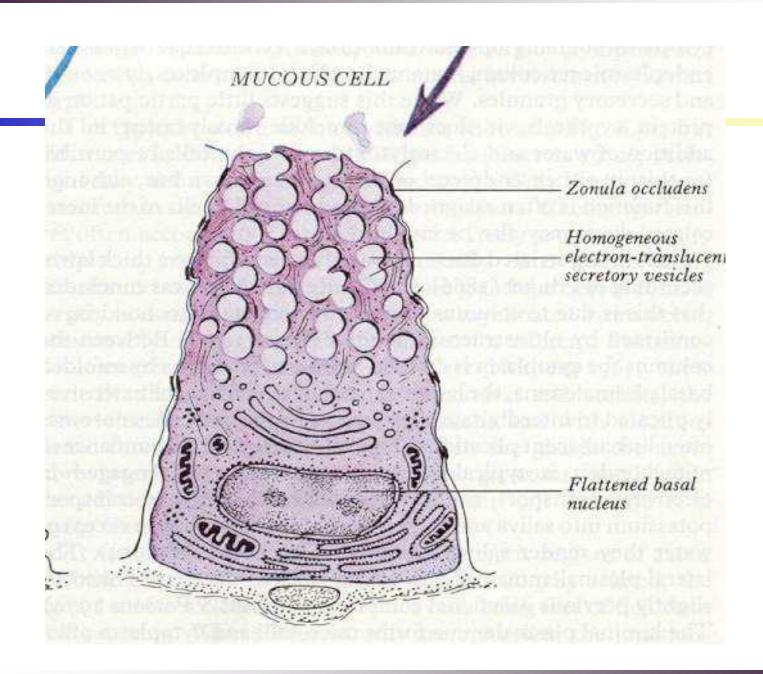


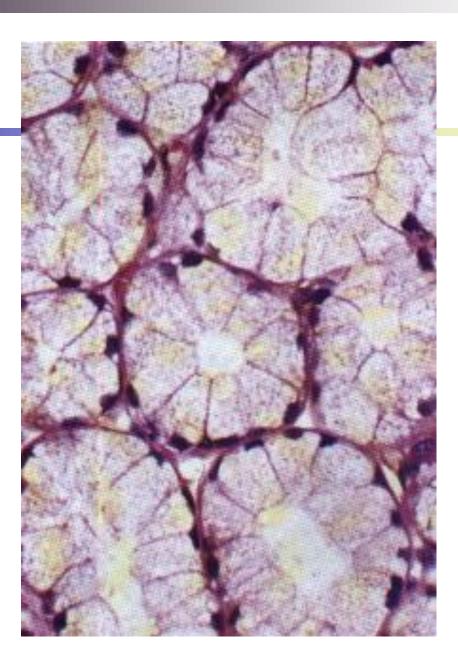
#### Serous cells

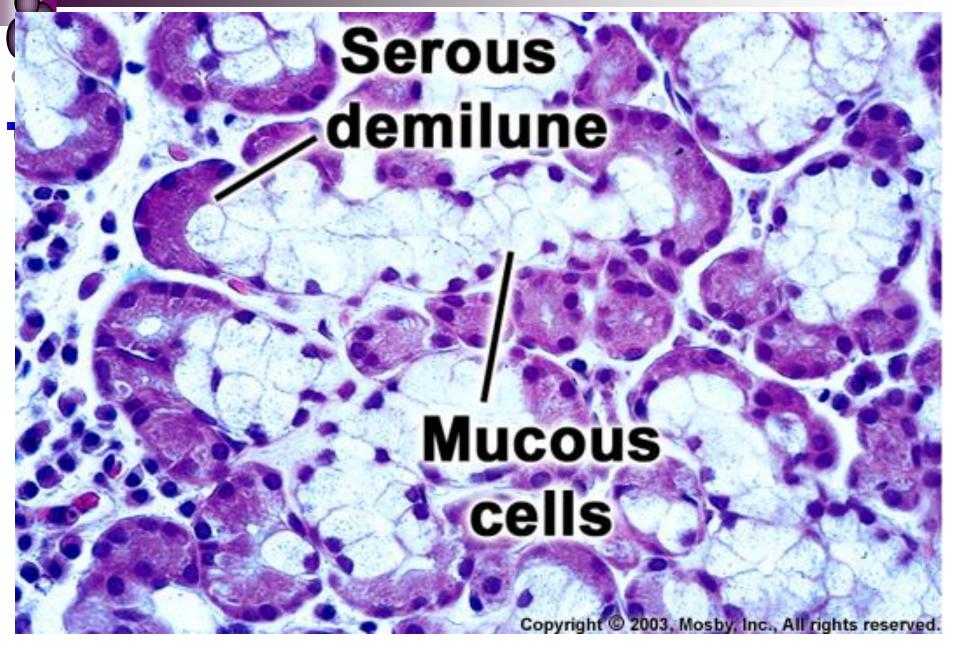
■ They have all the features of a cell specialized for the synthesis, storage, and secretion of protein

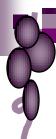






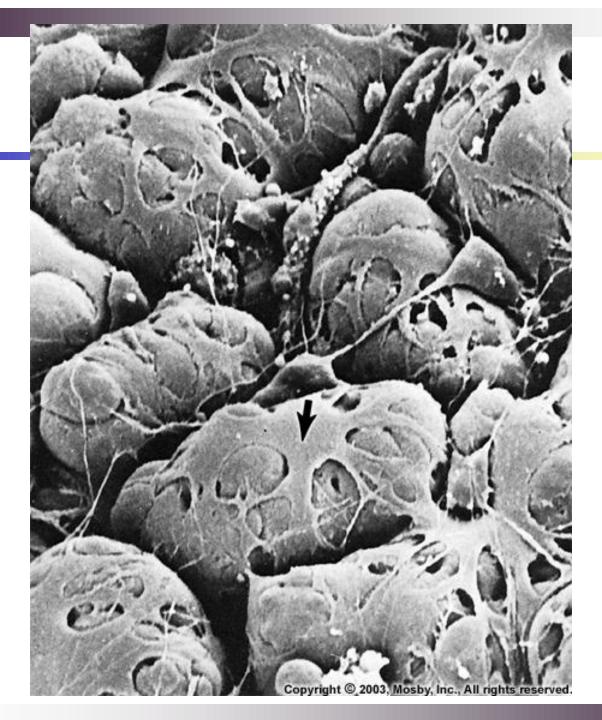


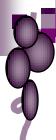




### Myoepithelial cells

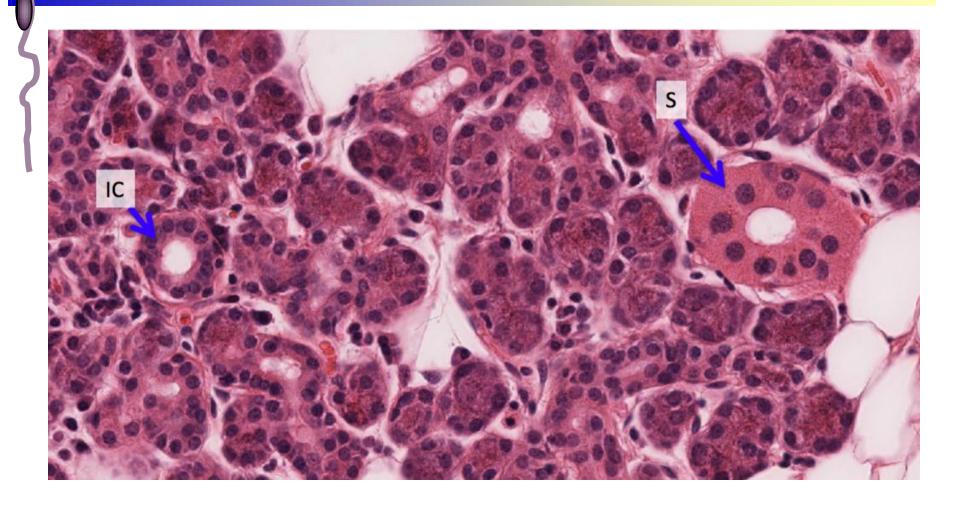
- The myoepithelial cells of the intercalated ducts are more spindled-shaped and fewer processes
- Desmosomes between myoepithelial cells and secretory cells
- Ultrastructurally very similar to that of smooth muscle cells
- Functions of myoepithelial cells
  - □ Support secretory cells
  - □ Contract and widen the diameter of the intercalated ducts
  - □ Contraction may aid in the rupture of acinar cells of epithelial origin
  - □ Tumor suppressor

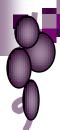




#### **Intercalated Ducts**

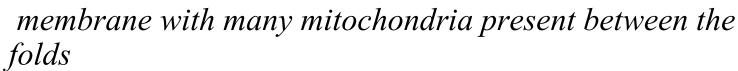
- Small diameter
- Lined by small cuboidal cells
- Nucleus located in the center
- Myoepithelial cells are also present
- Intercalated ducts are prominent in salivary glands having a watery secretion (parotid).





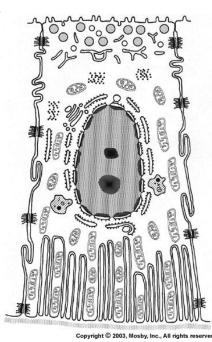
#### **Striated Ducts**

- Columnar cells
- Centrally located nucleus
- Eosinophilic cytoplasm
- Prominenty striations
  - □ *Indentations of the cytoplasmic*





- ☐ Hypotonic solution=low sodium and chloride and high potassium
- Basal cells

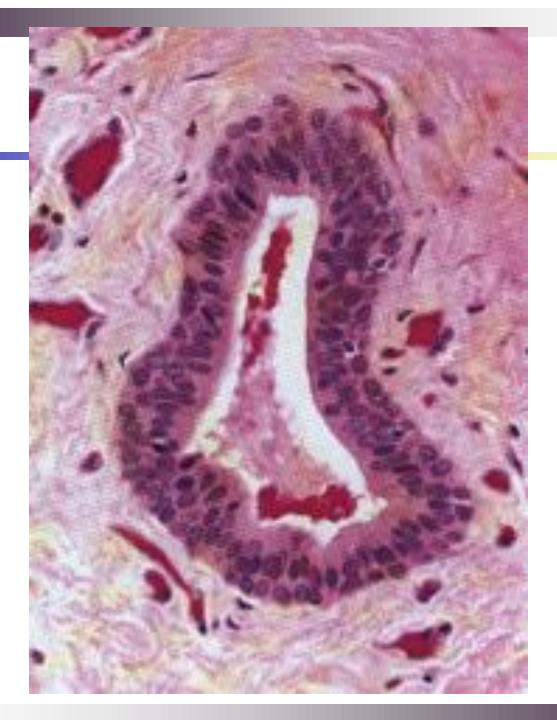


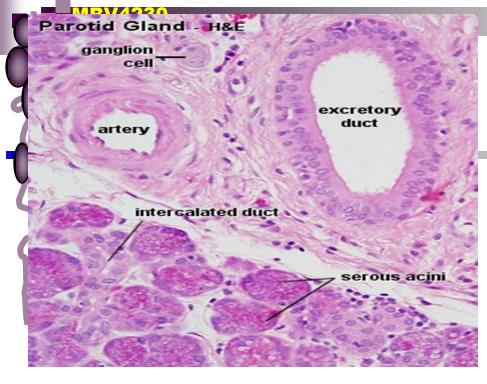
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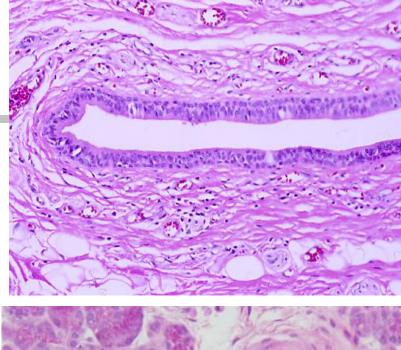


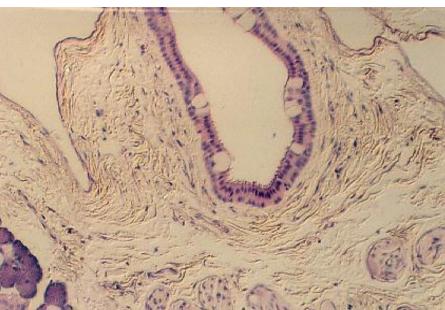
### **Terminal excretory ducts**

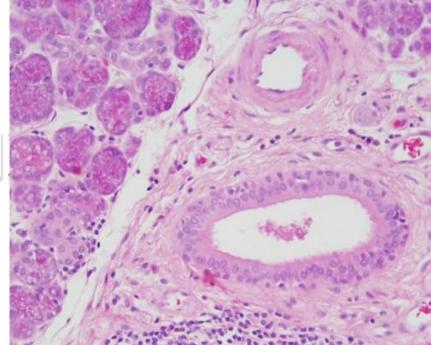
- Near the striated ducts they have the same histology as the striated ducts
- As the duct reaches the oral mucosa the lining becomes stratified
- Goblet cells, basal cells, clear cells.
- Alter the electrolyte concentration and add mucoid substance.

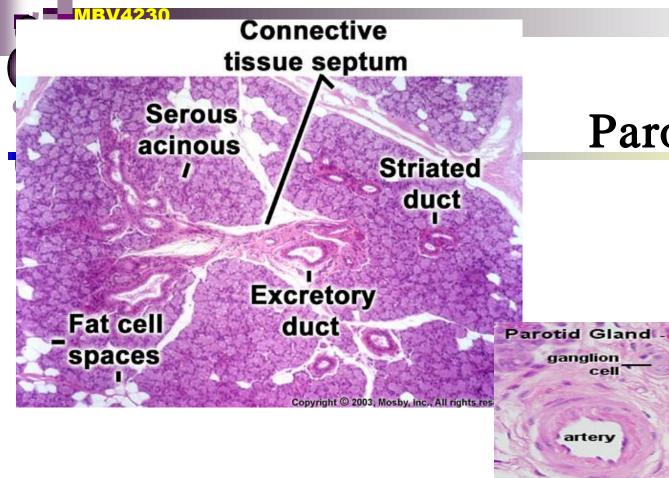




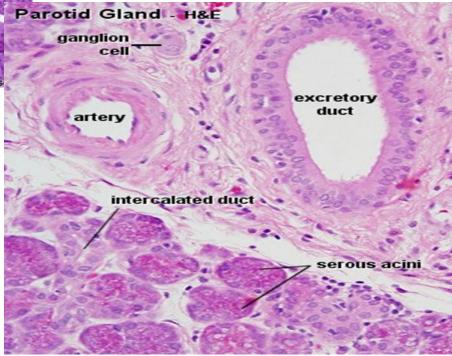


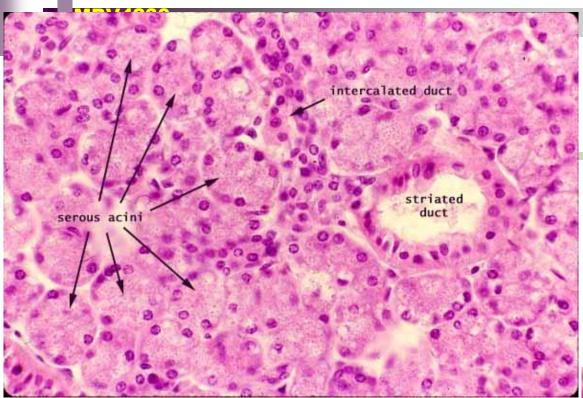




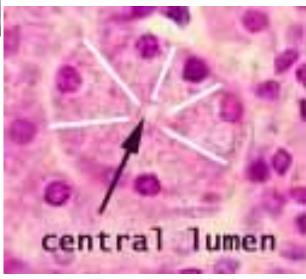


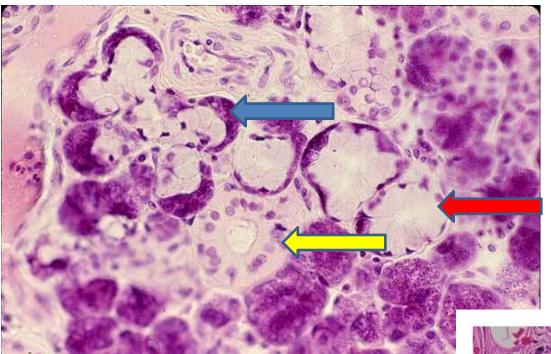
# Parotid gland



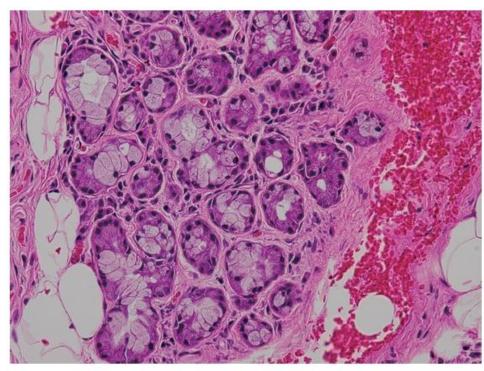


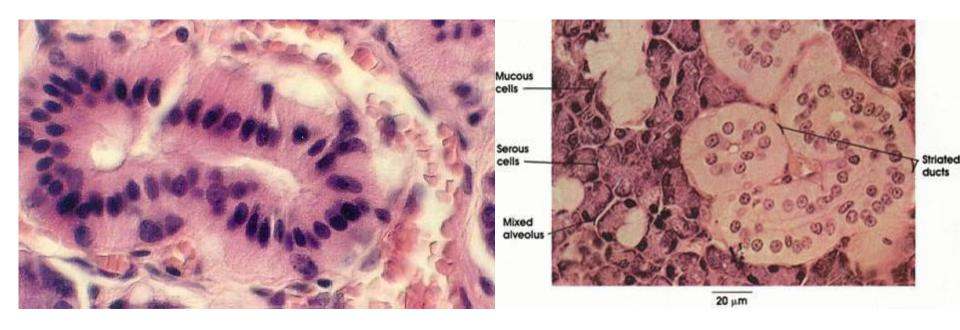
# Parotid gland

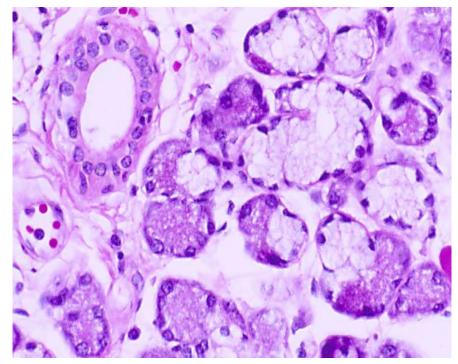


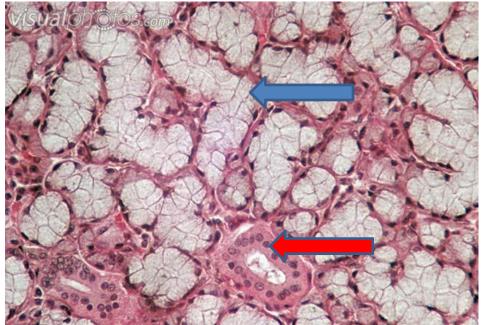


Submandibular gland









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# Sublingual gland

