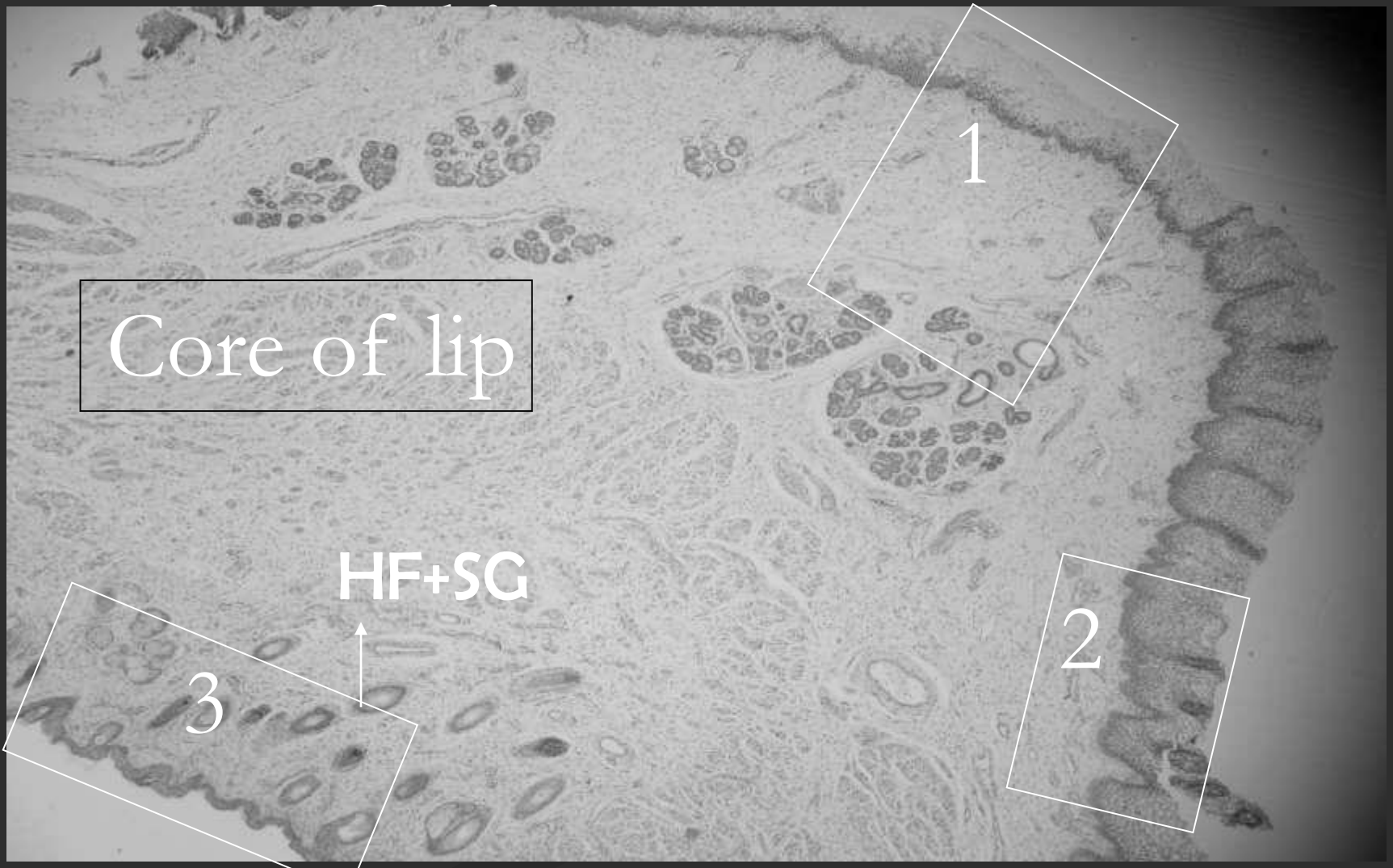
Oral cavity

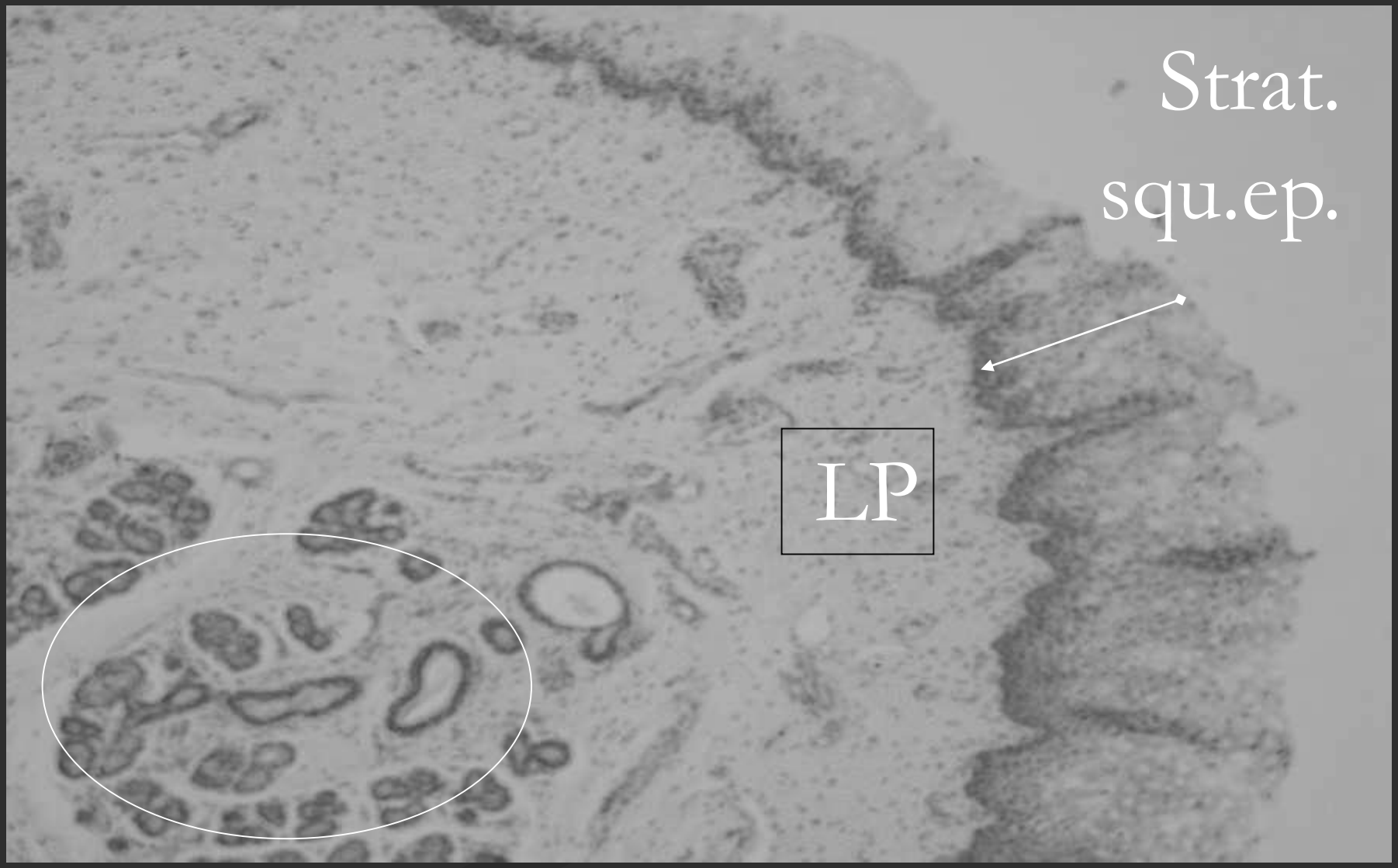
- A mucocutaneos junction (lip)
- Tongue
- Salivary glands

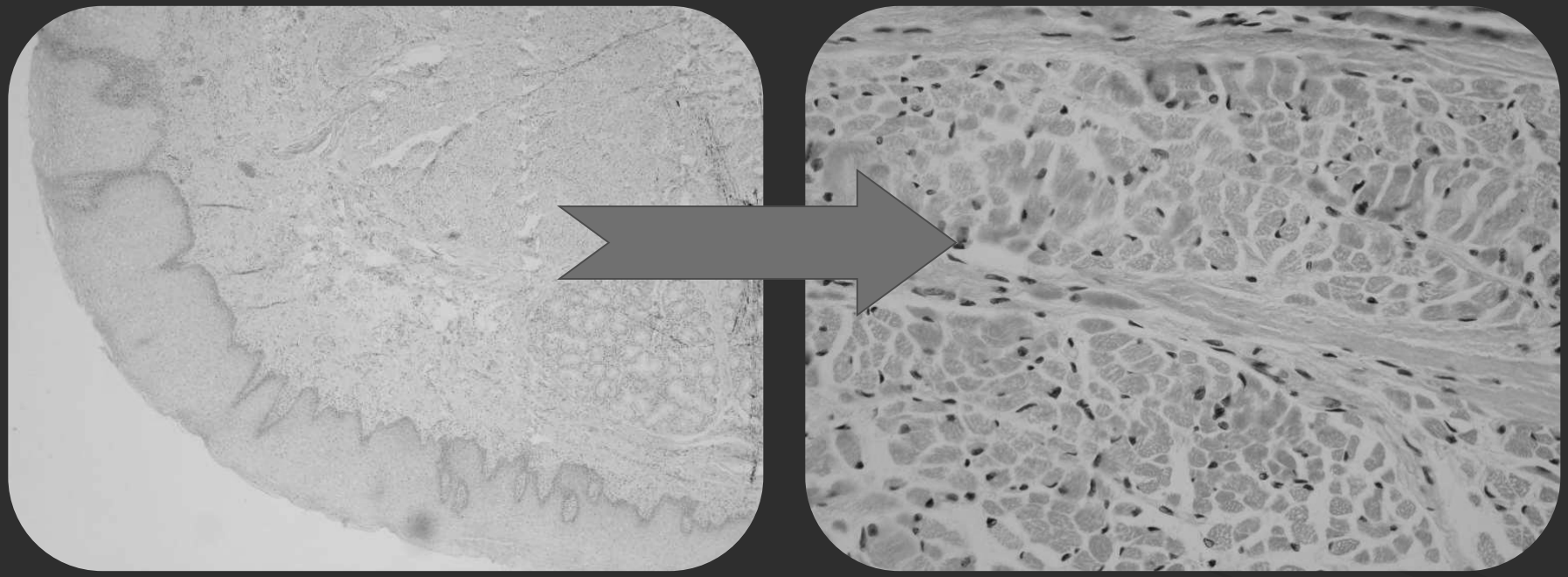
Sagital section of LIP

1 Oral mucosa 2red margin

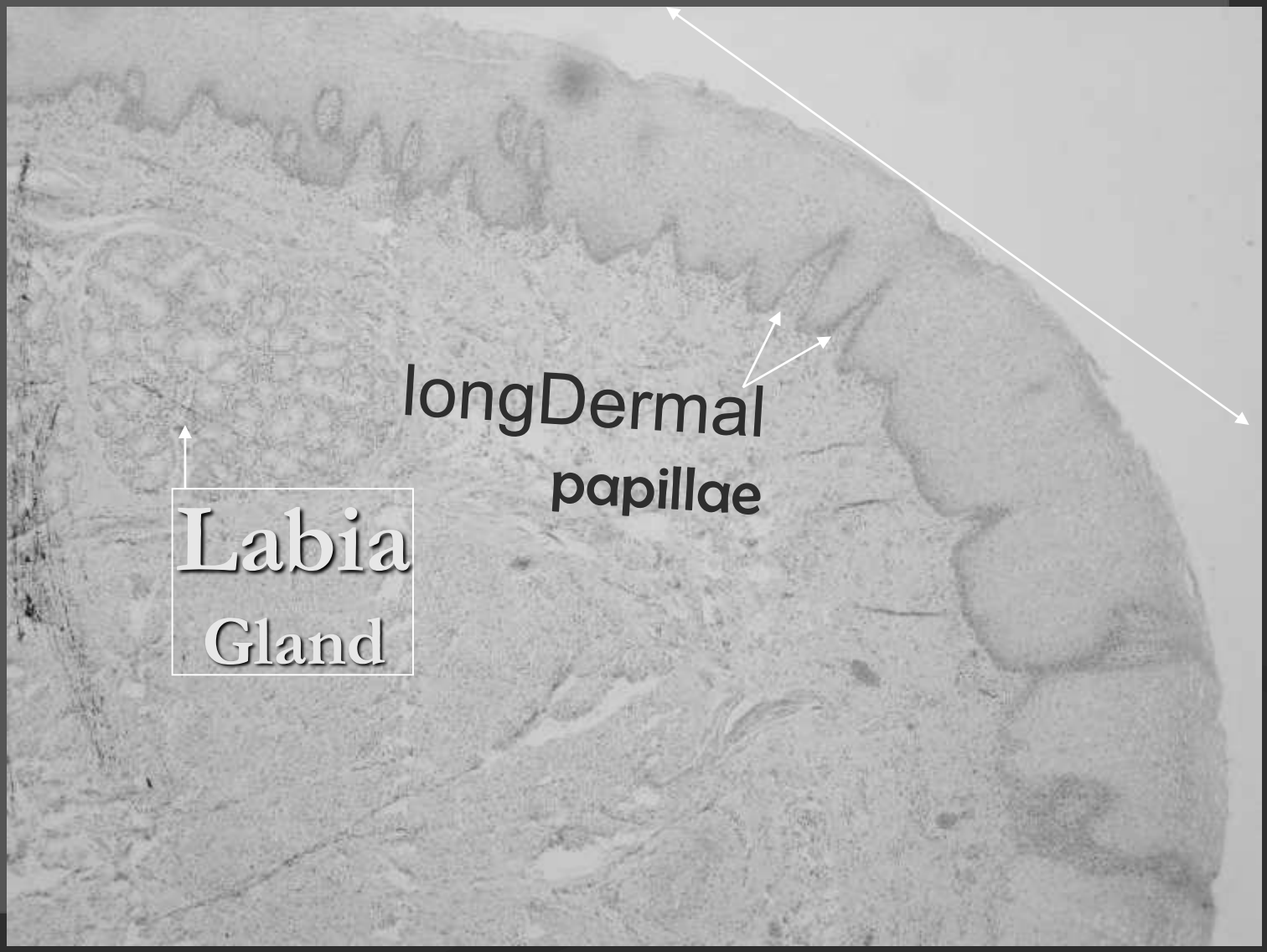


Oral mucosa part labial seromucous gland

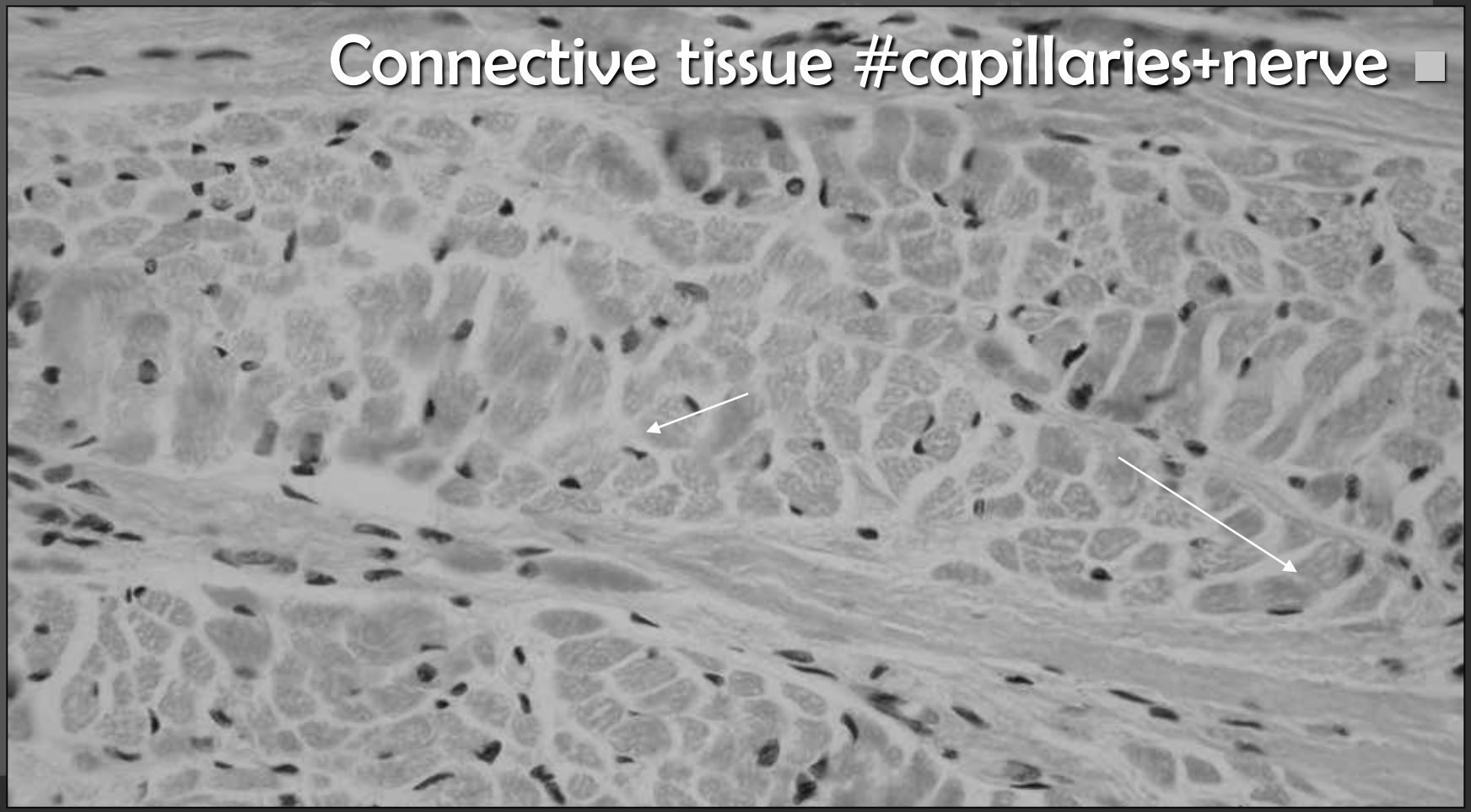




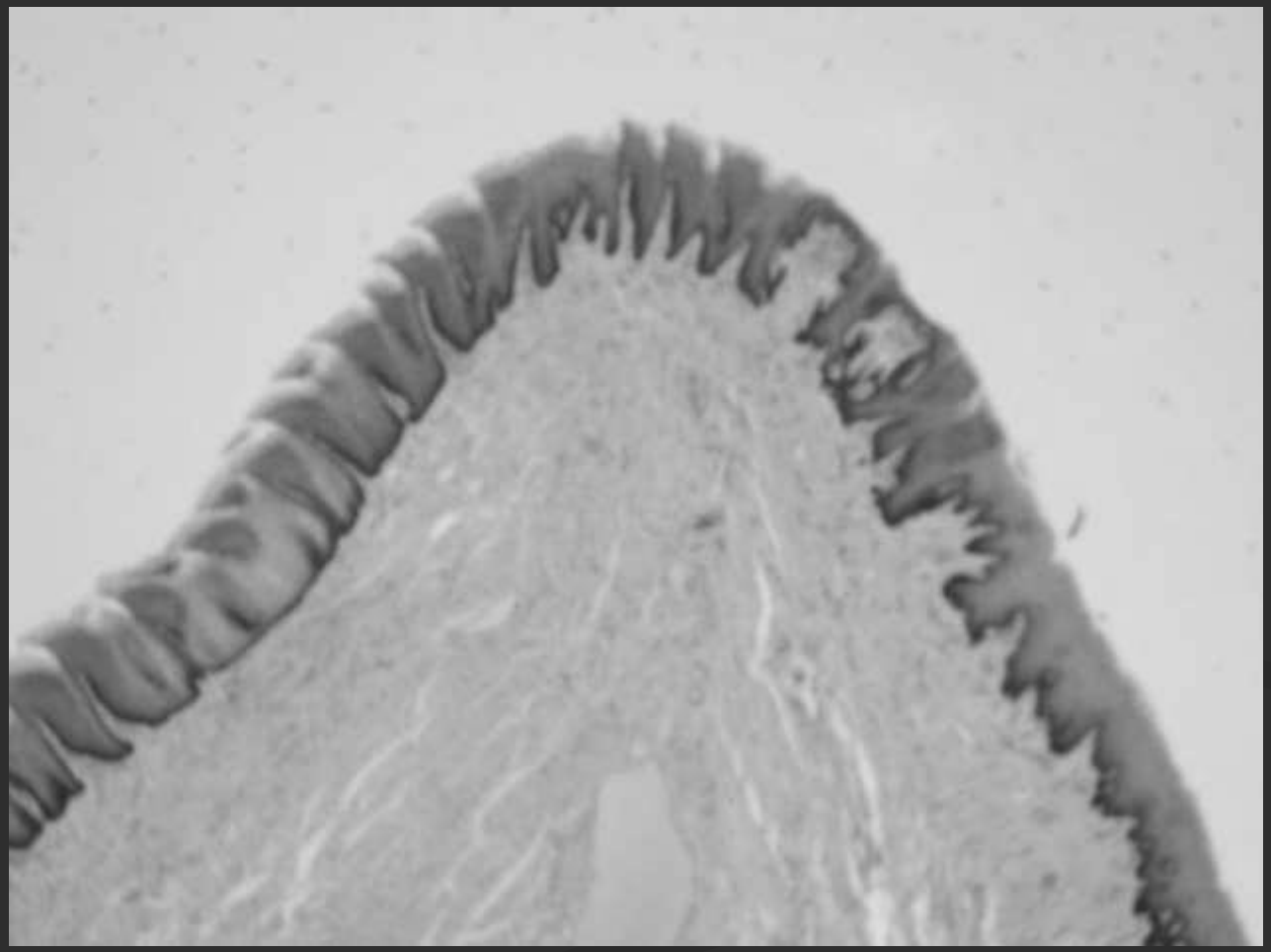
Vermilion(transition zone)



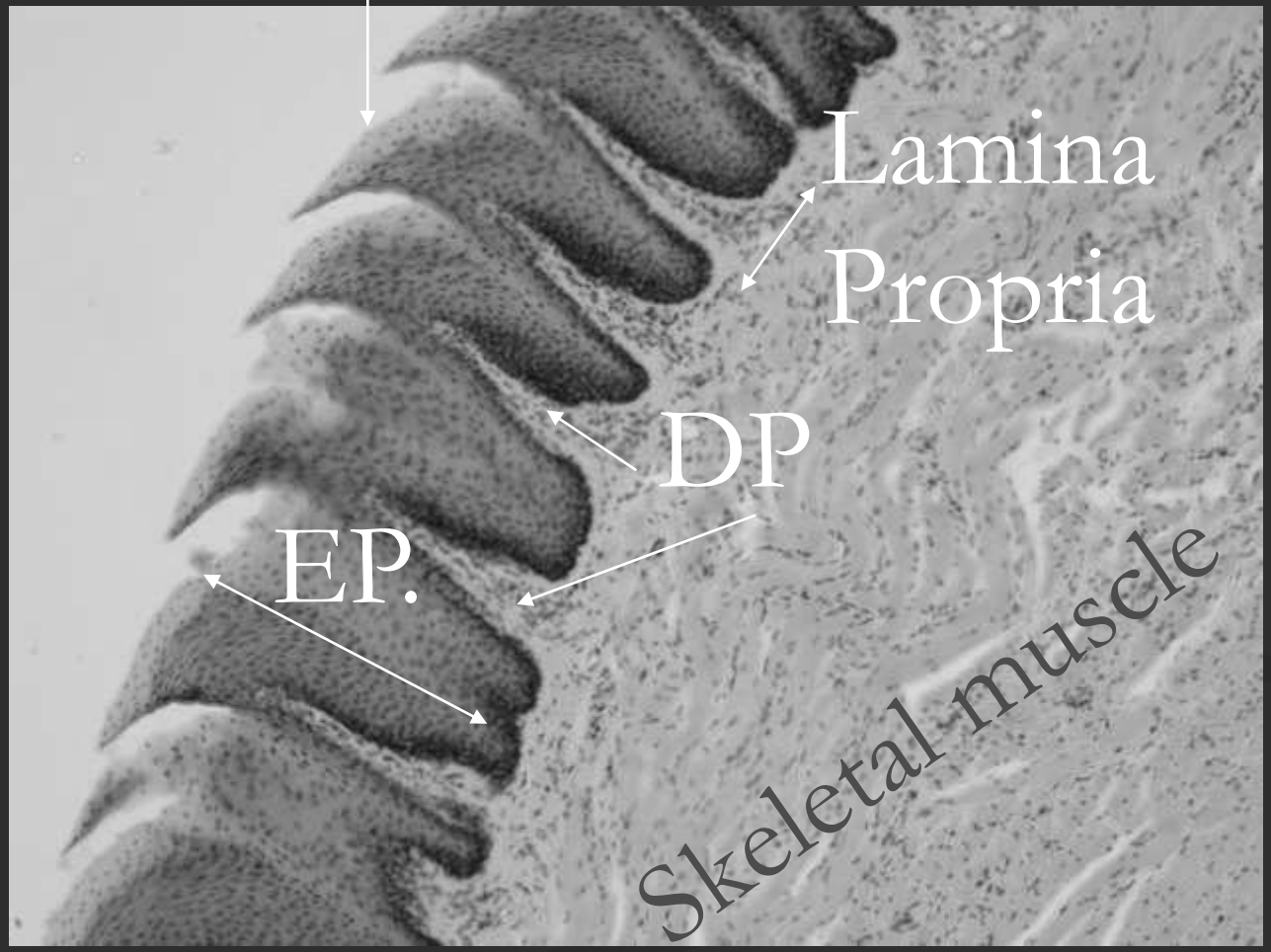
Fine skeletal muscle in core of lip



Tongue(dorsal surface)

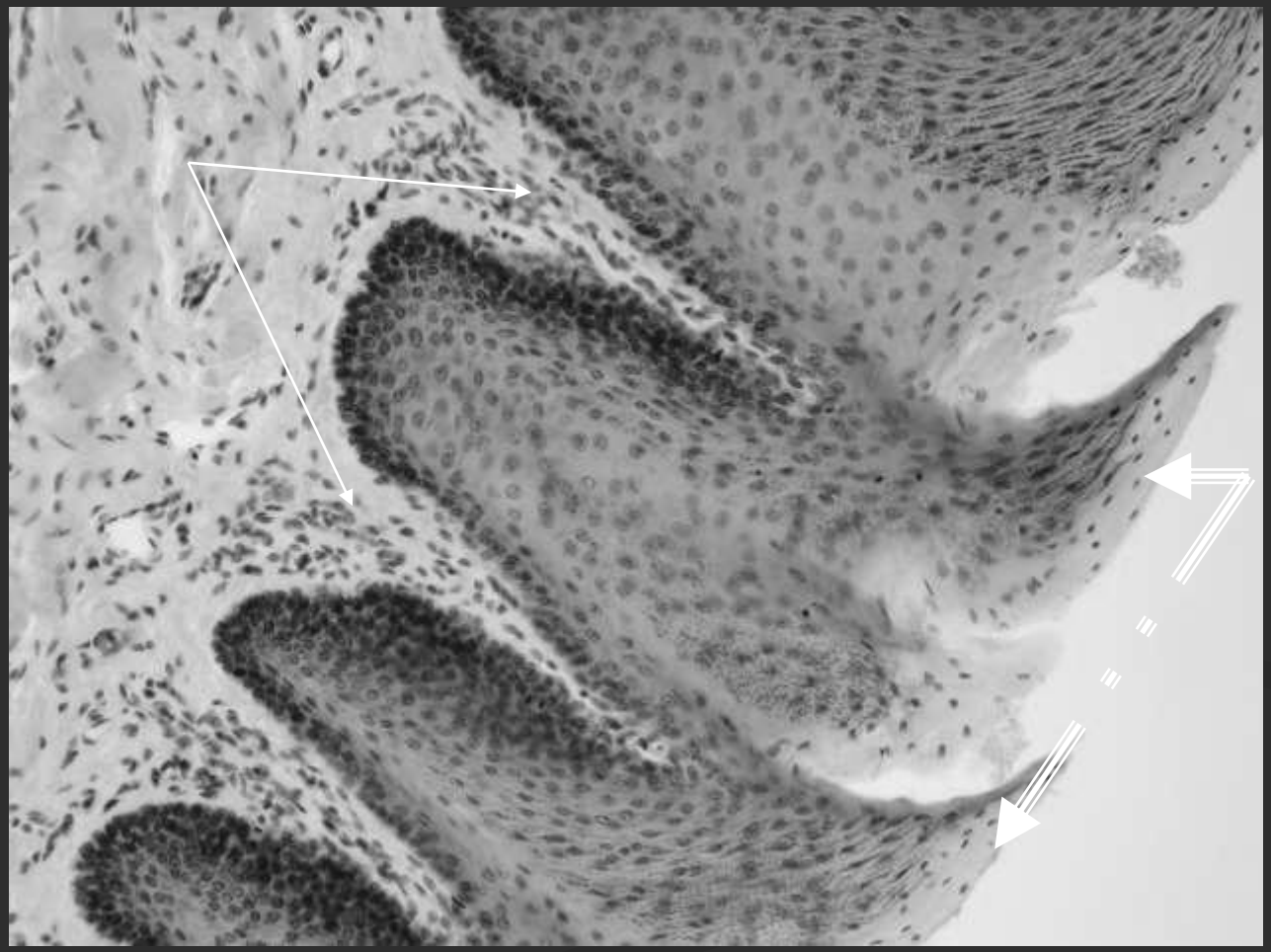


Filiform Papillae

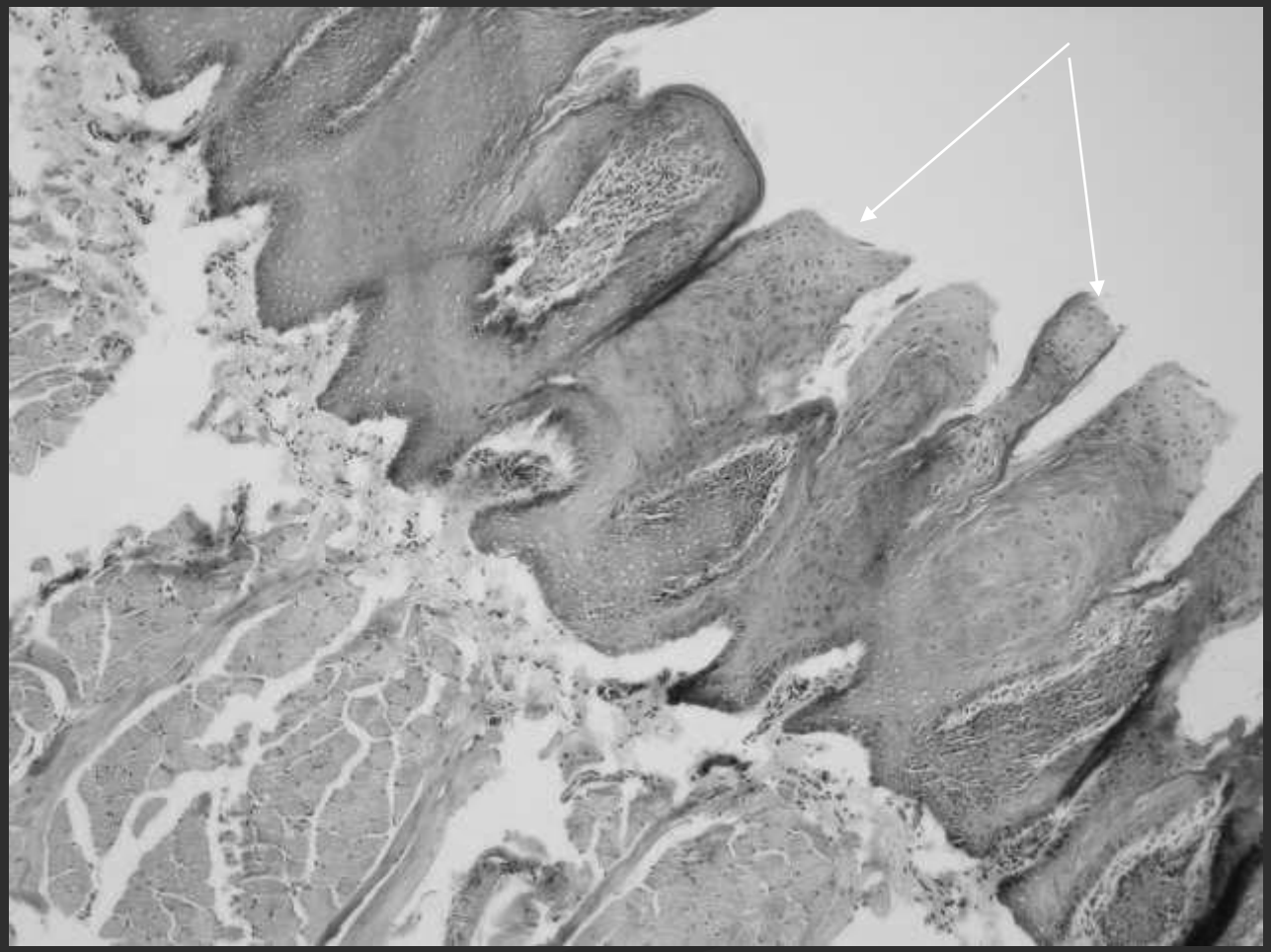



Skeletal muscle

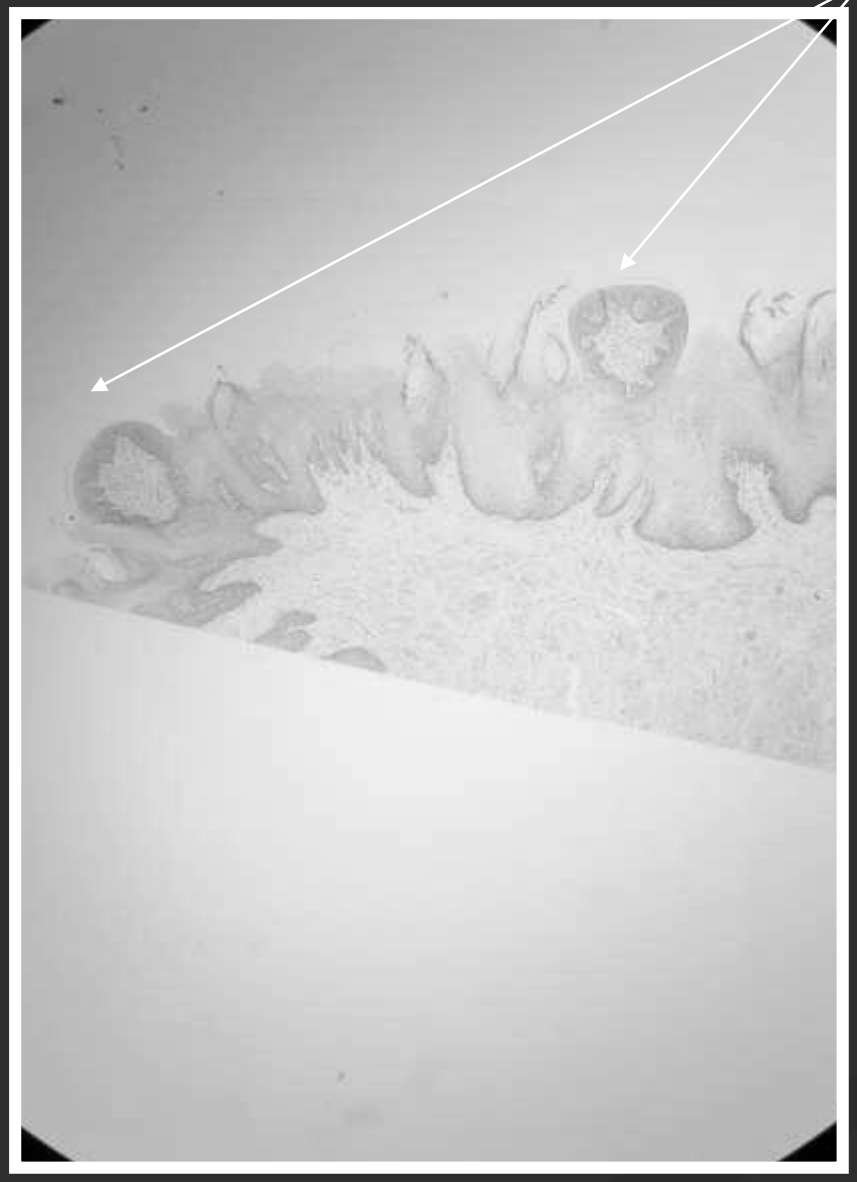
Filiform Papillae



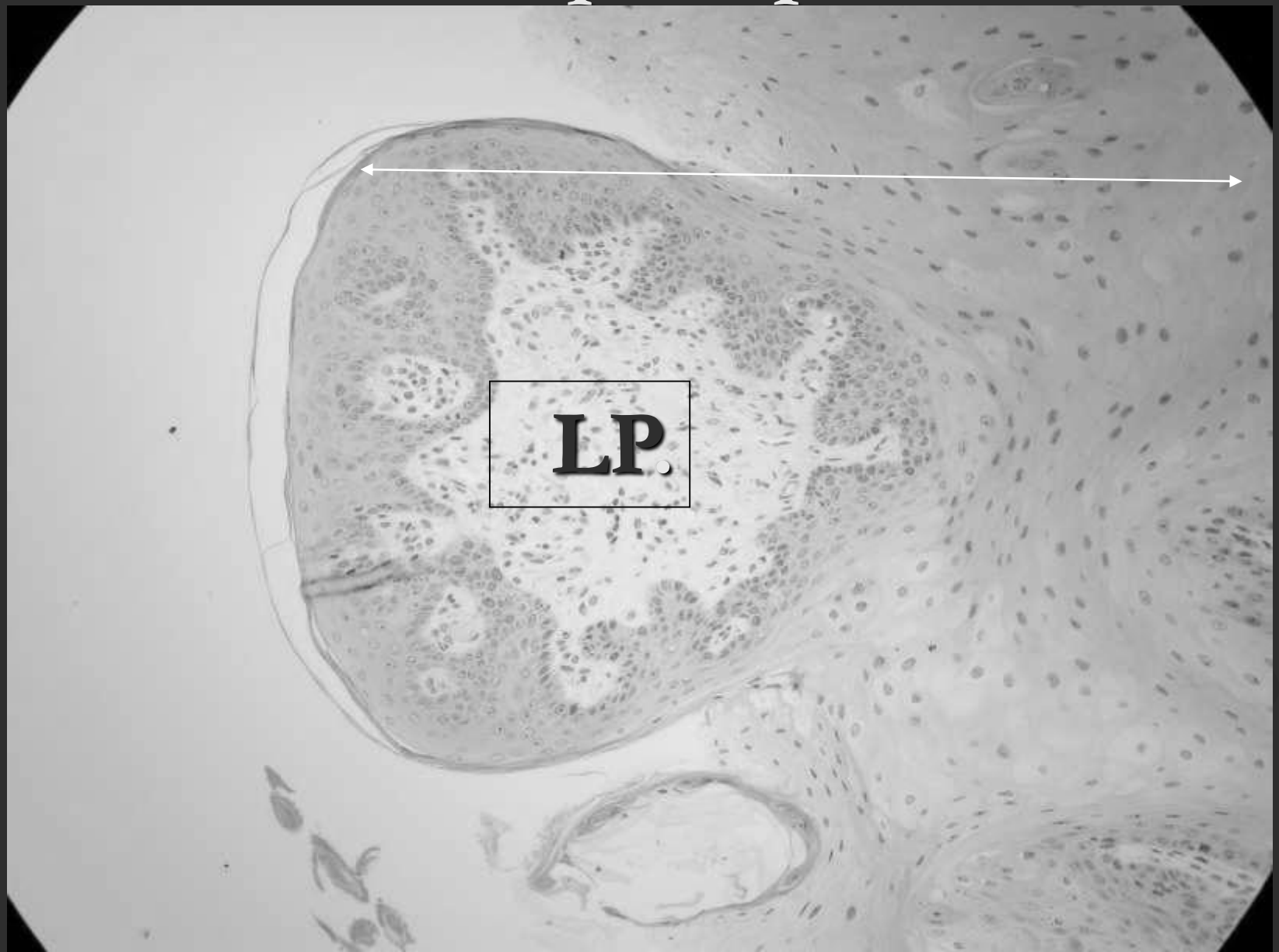
Filiform Papillae



Fungiform papilla

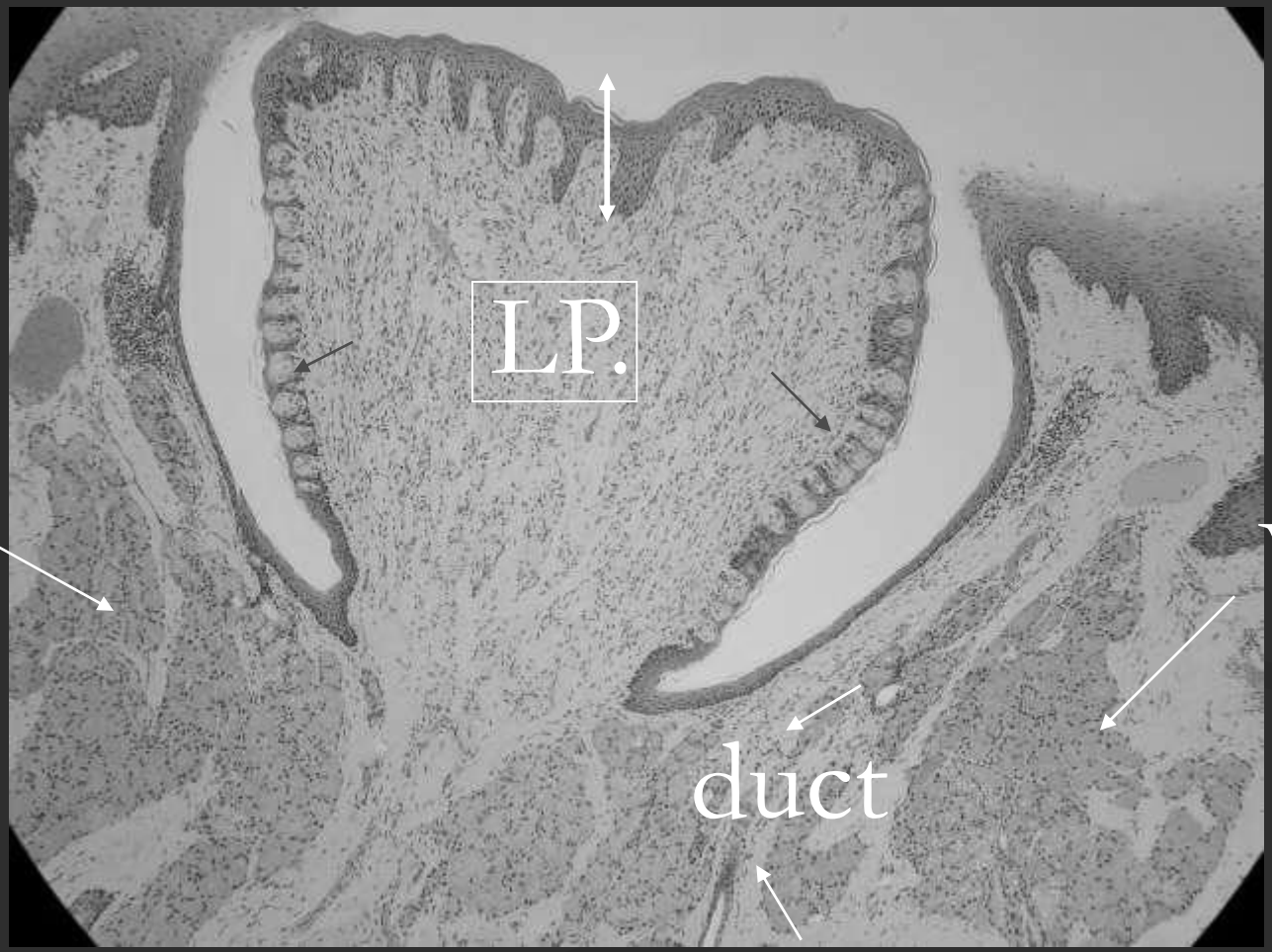


Str. Squa.Ep..

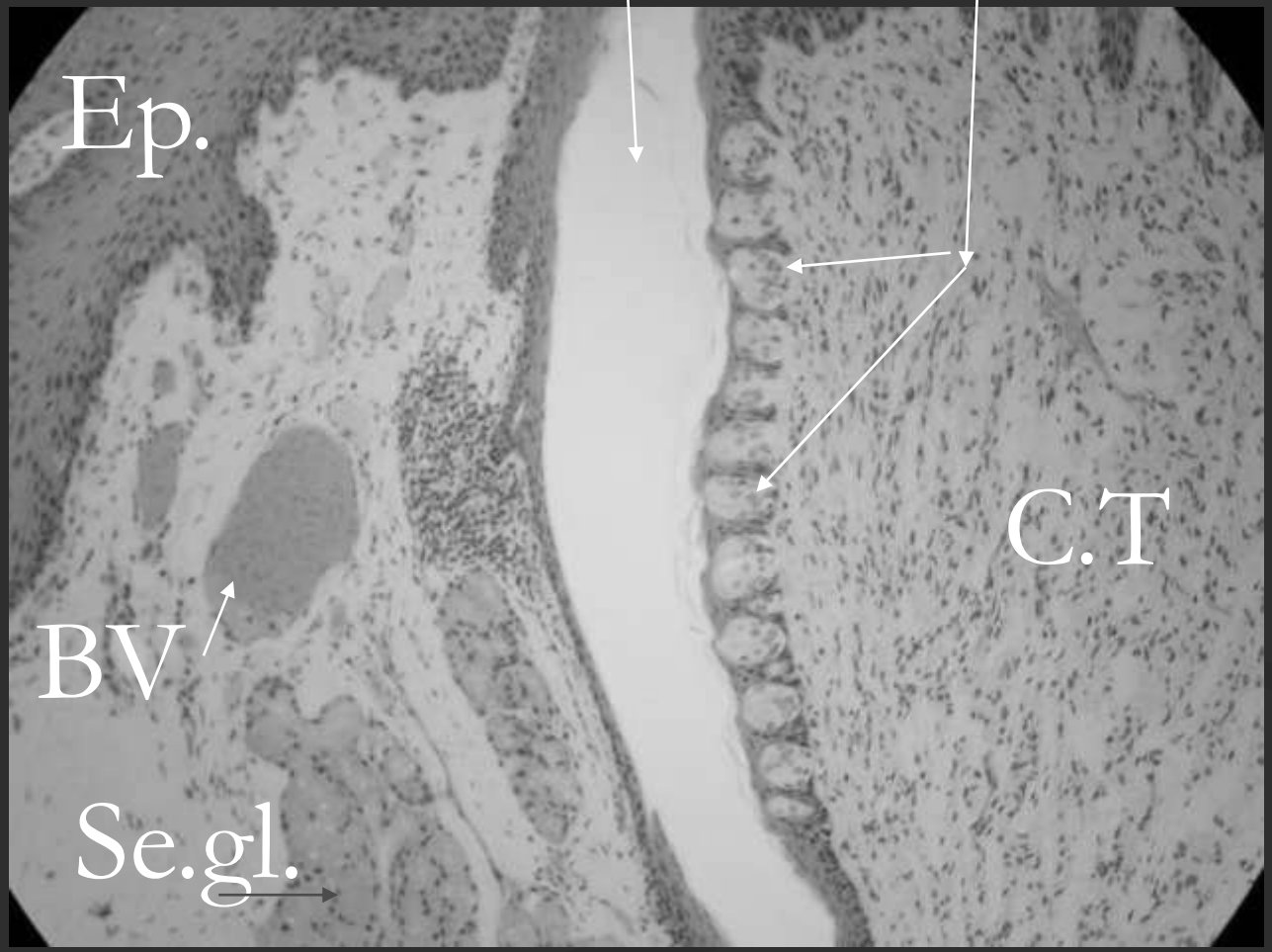


Circumvallate Papilla
sulcus=groove
VonIbner's gland

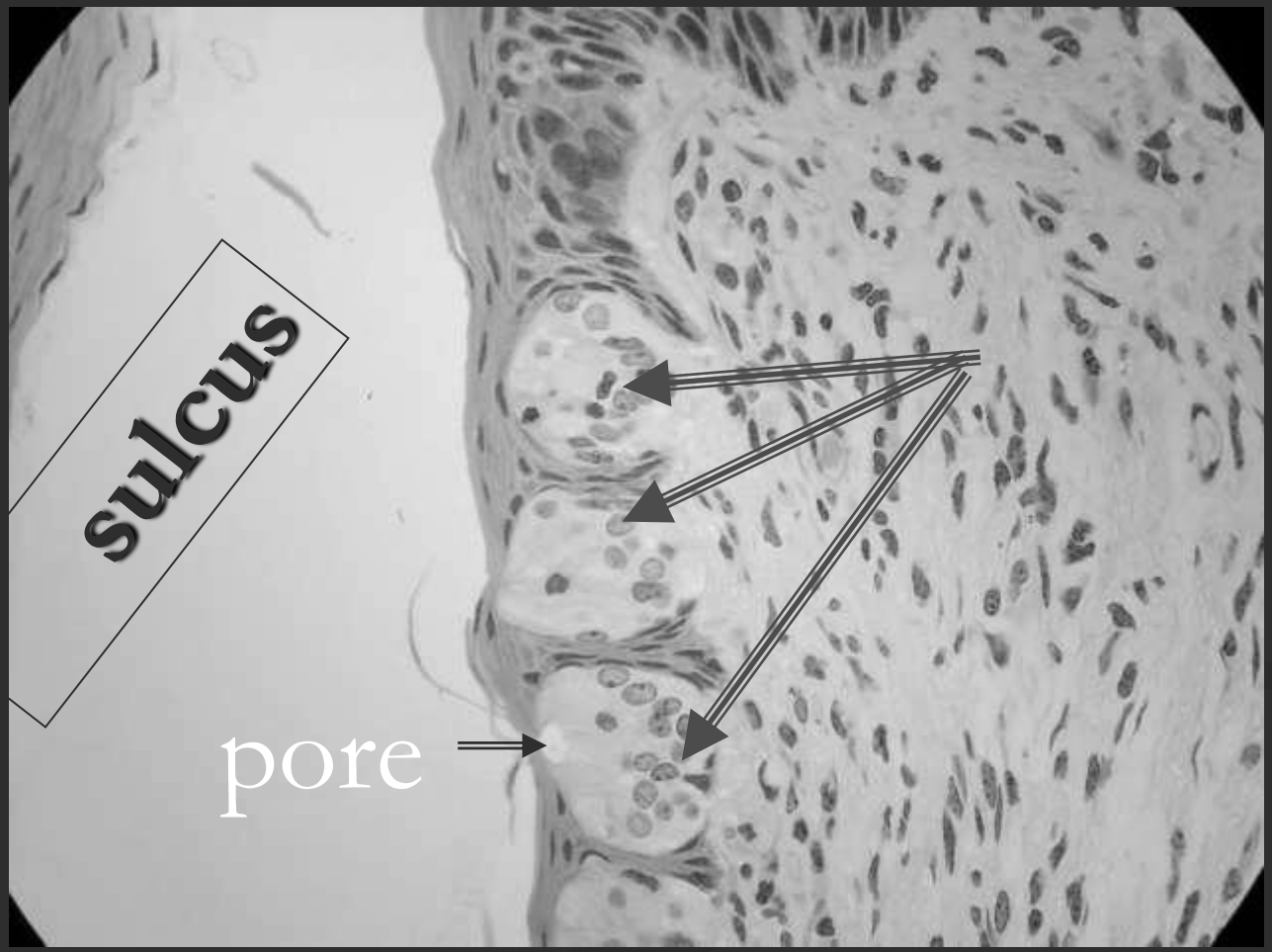
Taste bud

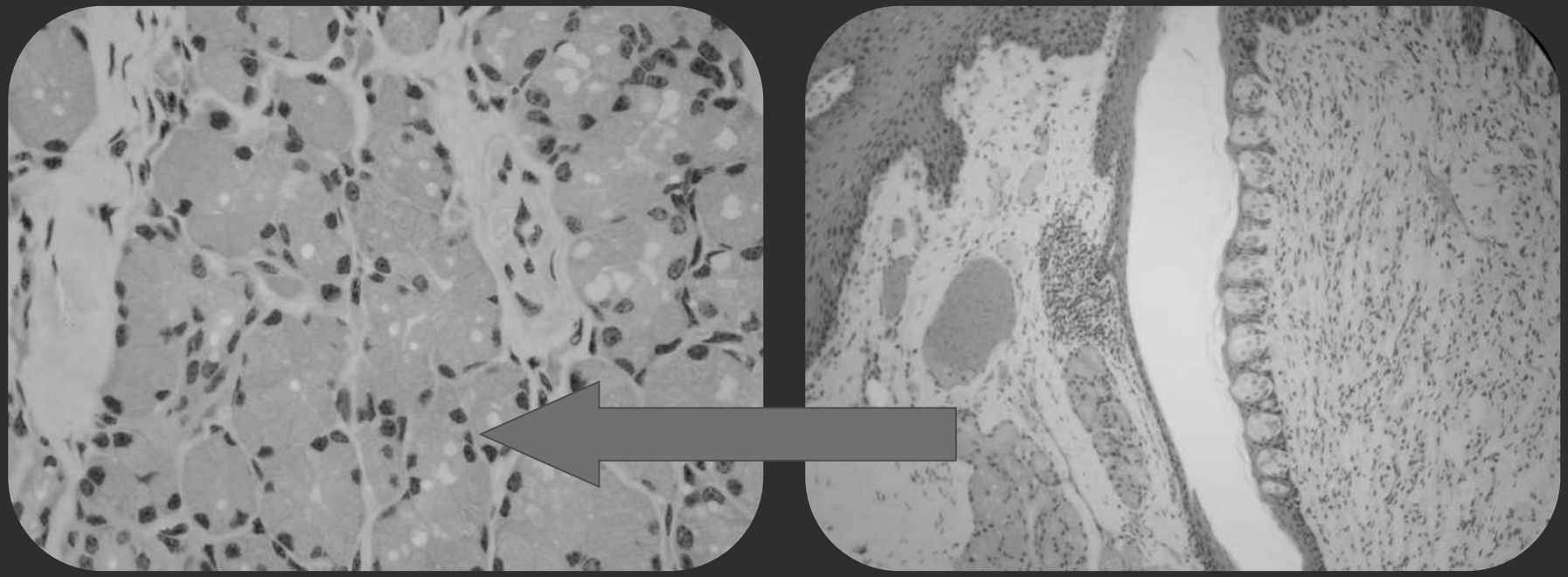


Serous gl. sulcus Taste bud

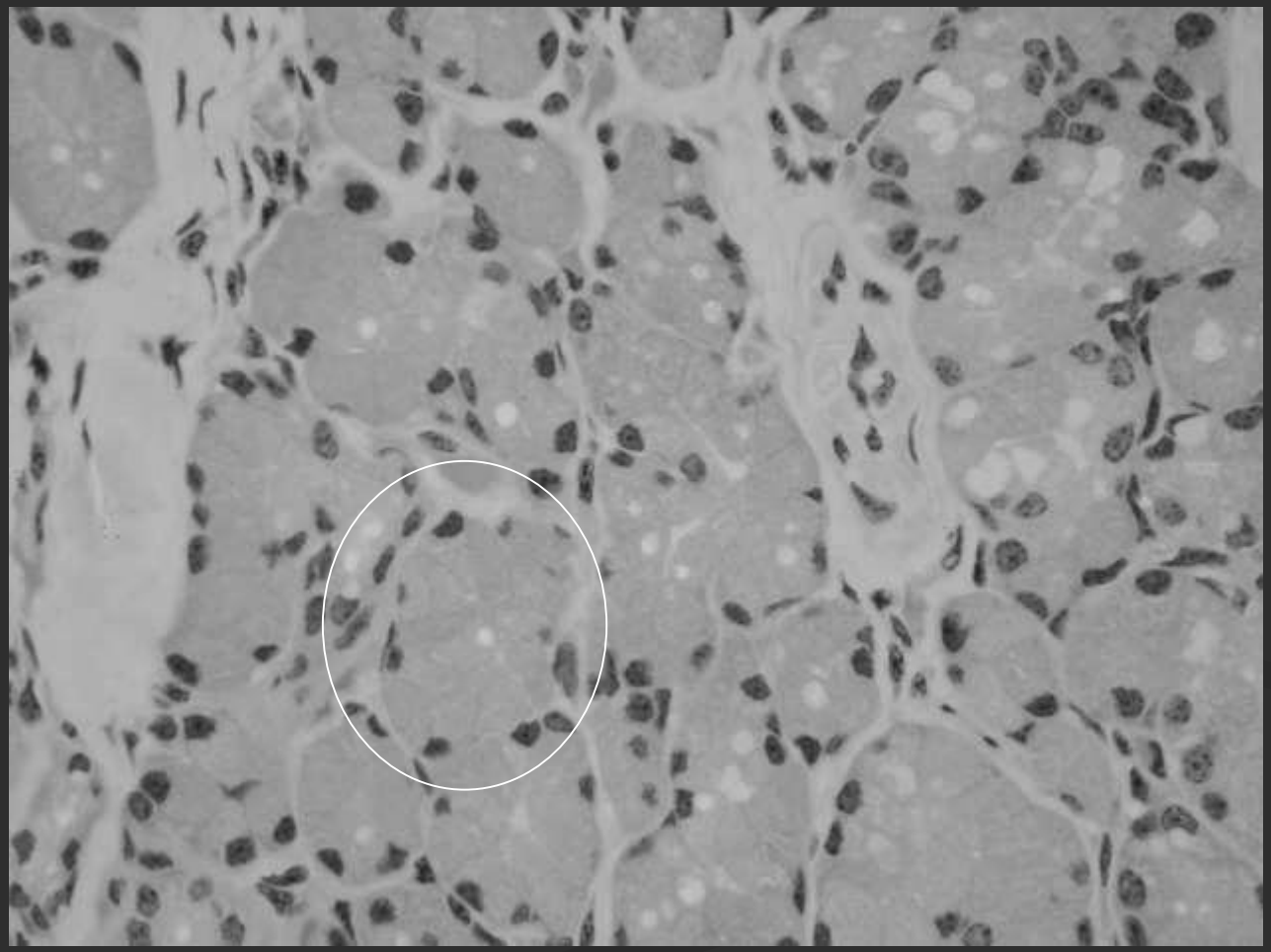


Taste bud





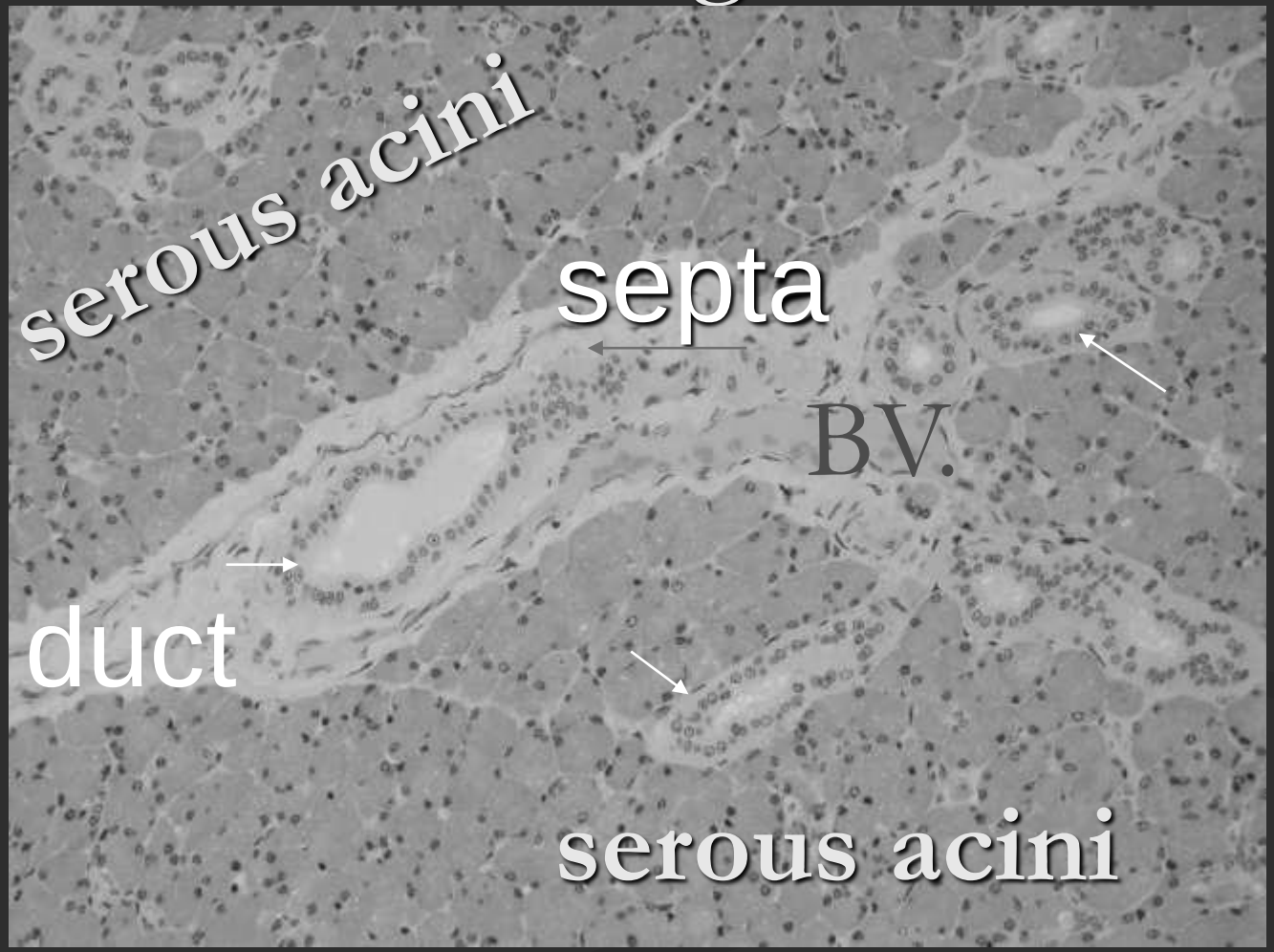
Serous acinus



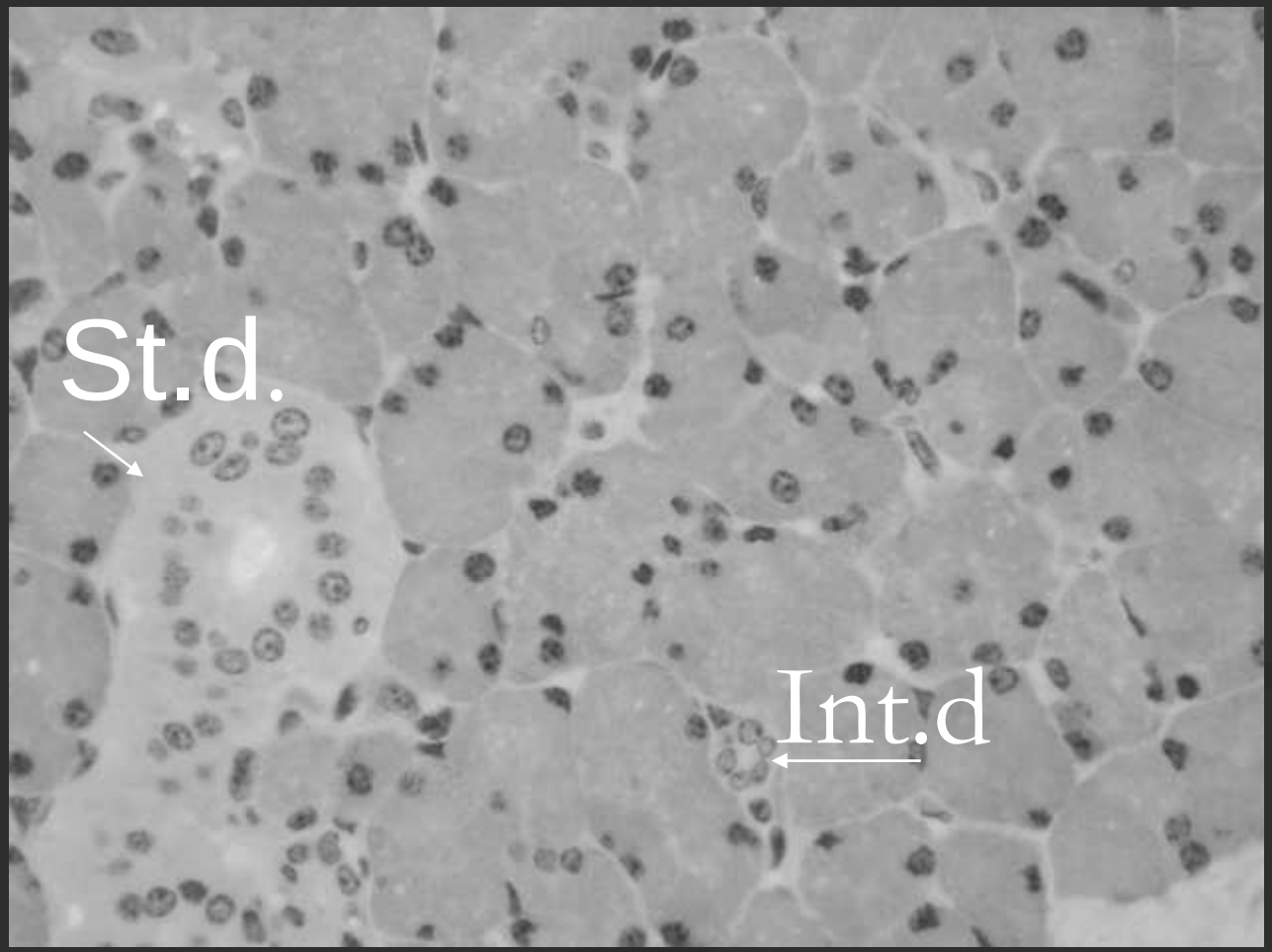
Salivary glands:
copound tubuloacinar gland
parenchyma&stroma

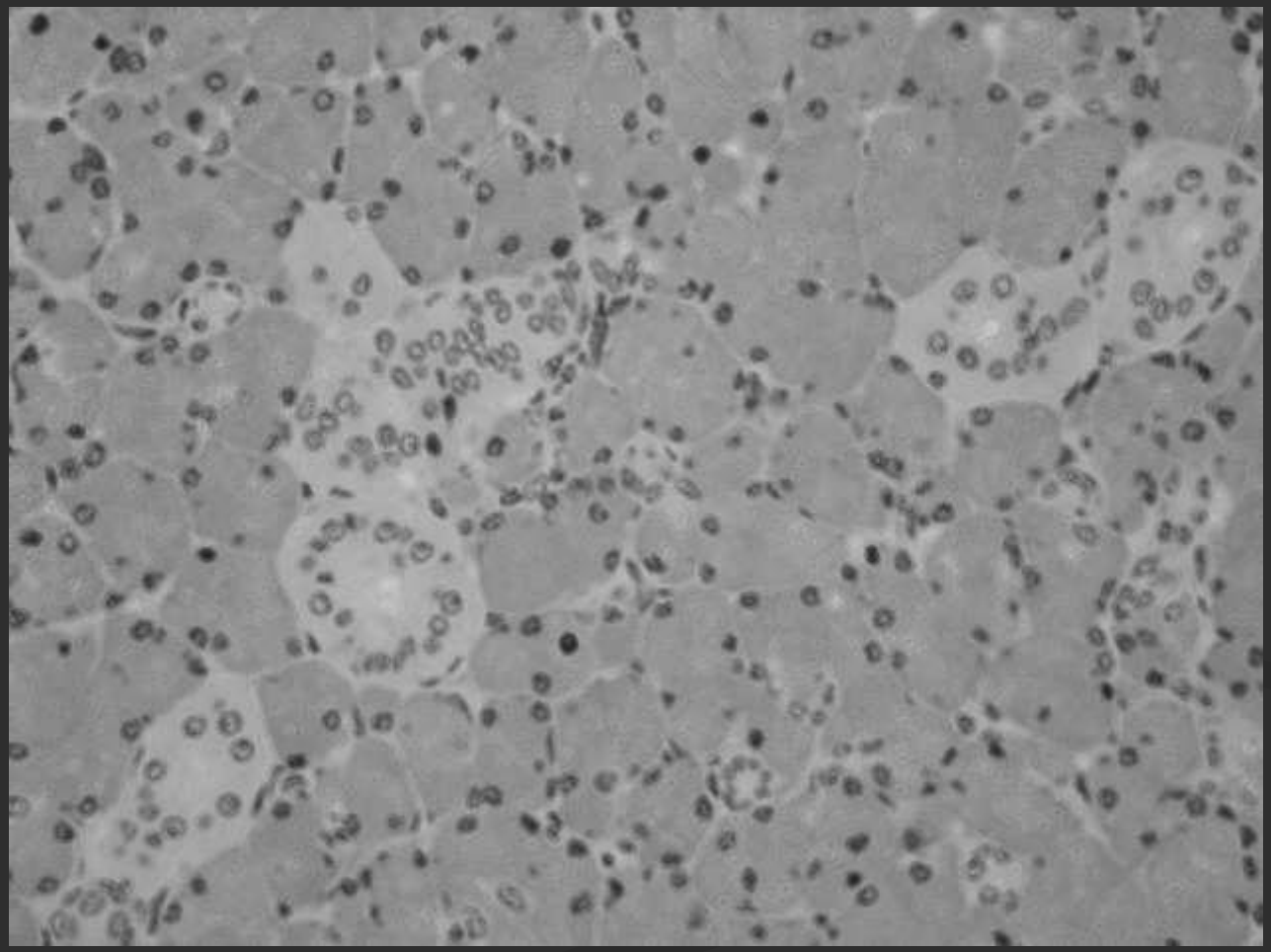
Parotid gland:

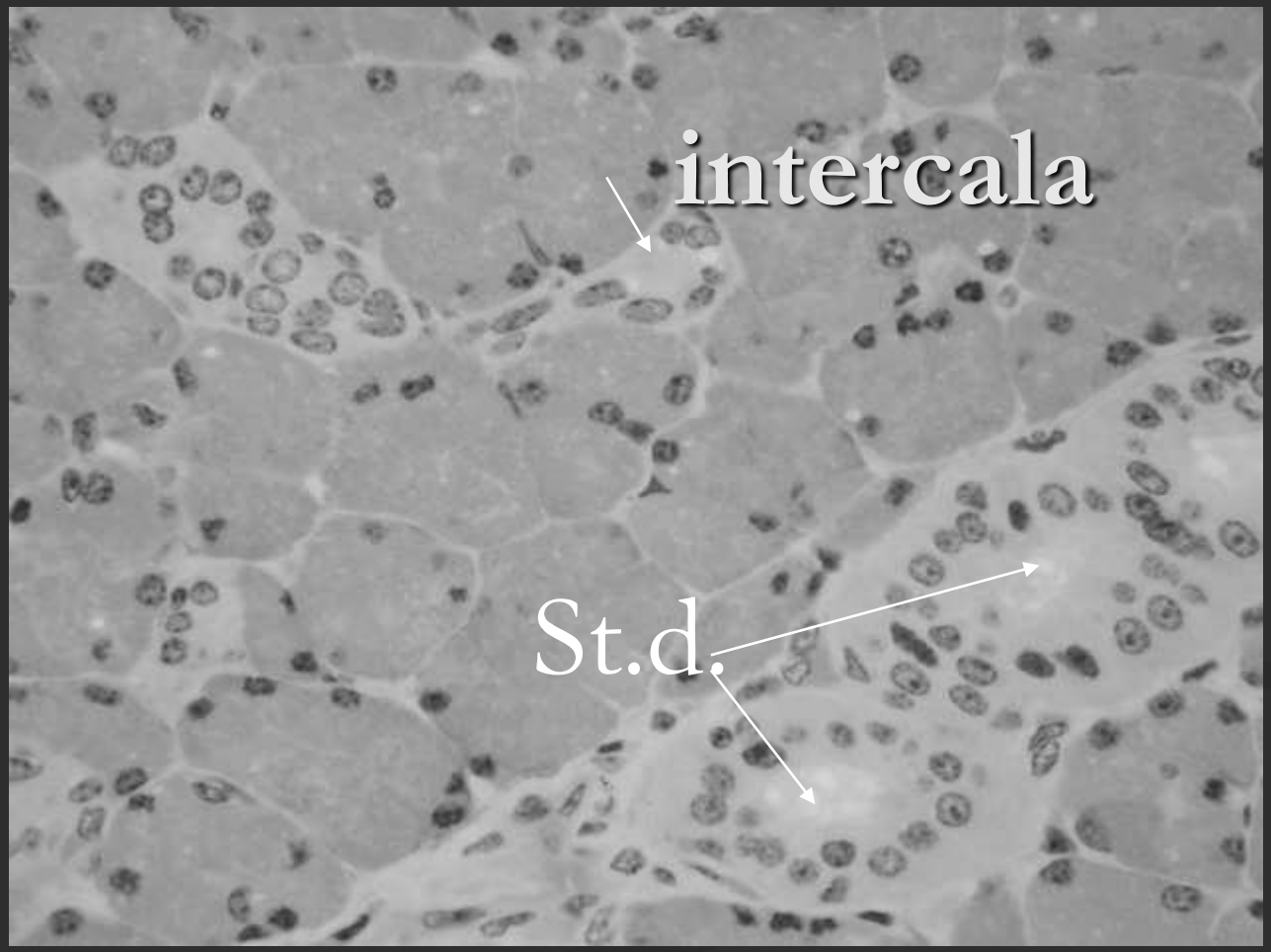
Parotid gland: serous gland



Striated&intercalated (Intralobular duct)

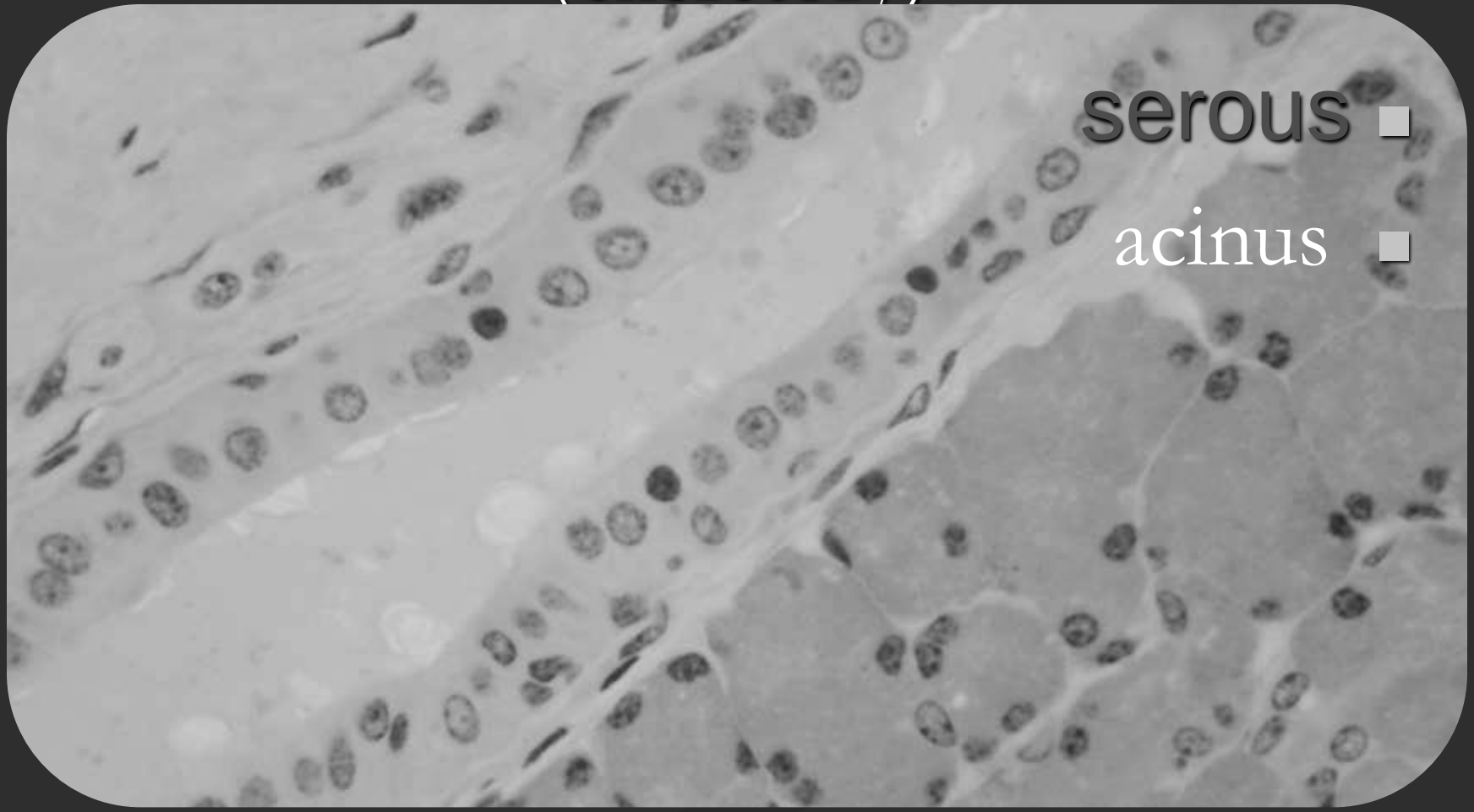





intercala
St.d.

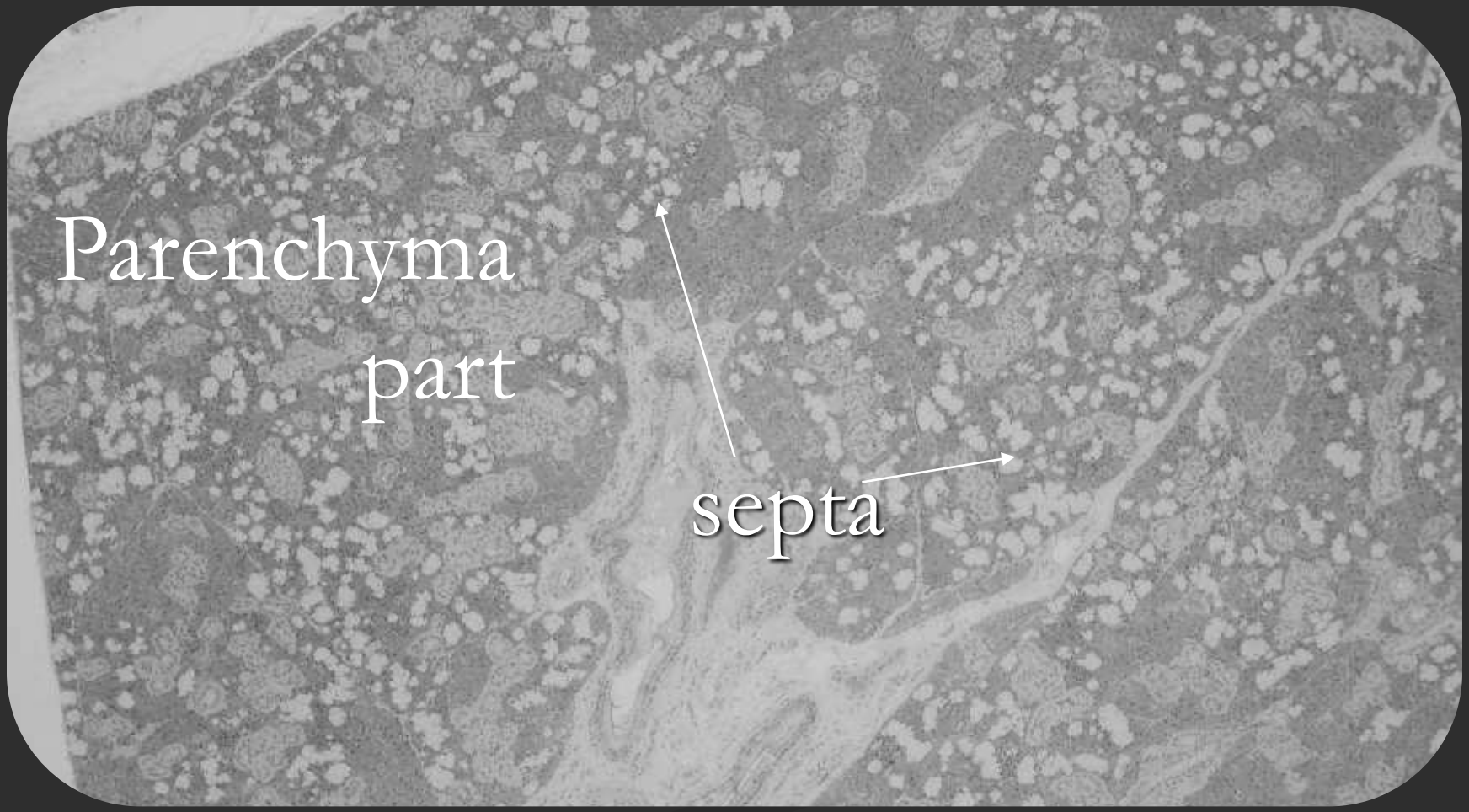

Serous acinus
Interlobular duct
Interlobular duct
S.

Interlobular duct (excretory)

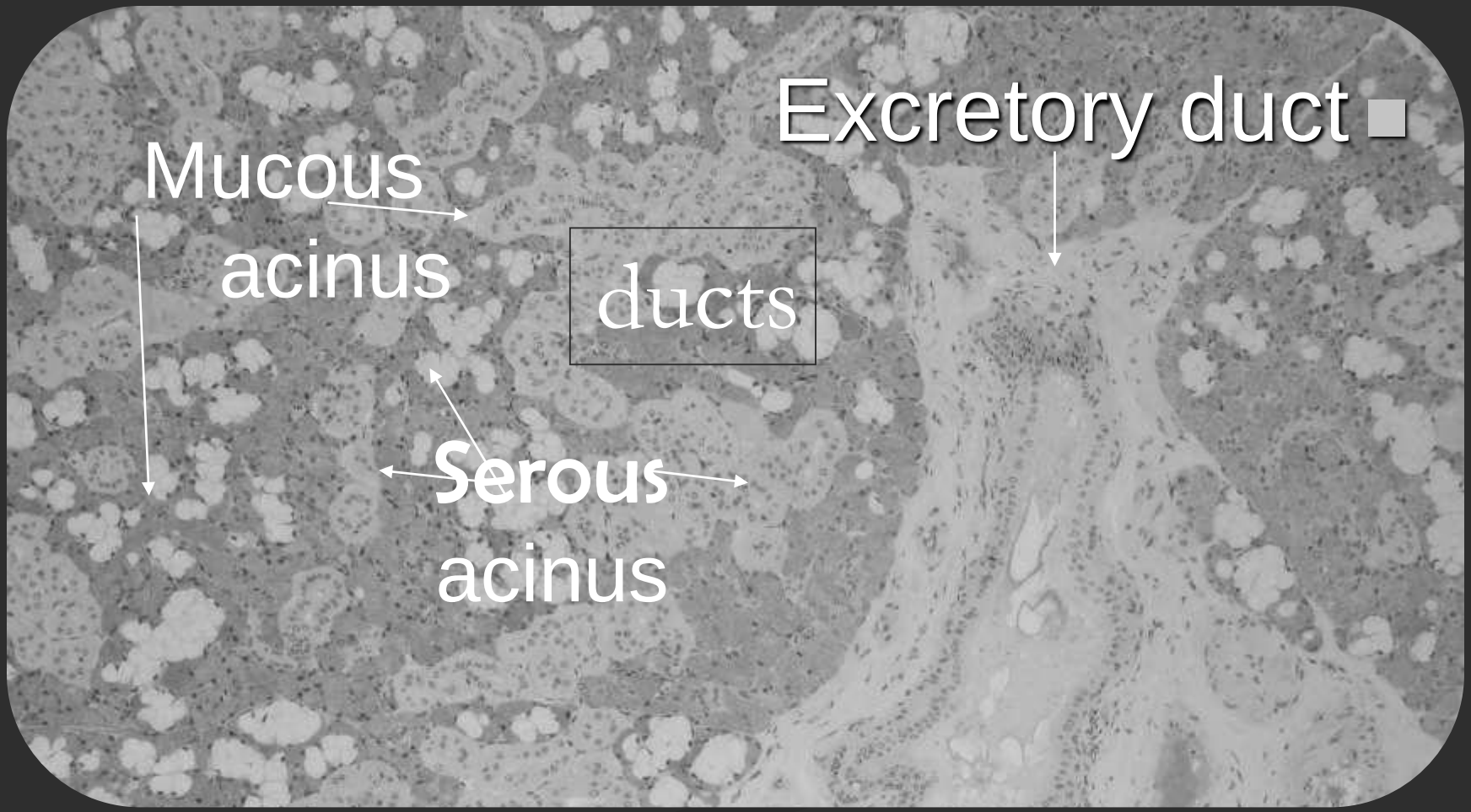


- serous
- acinus

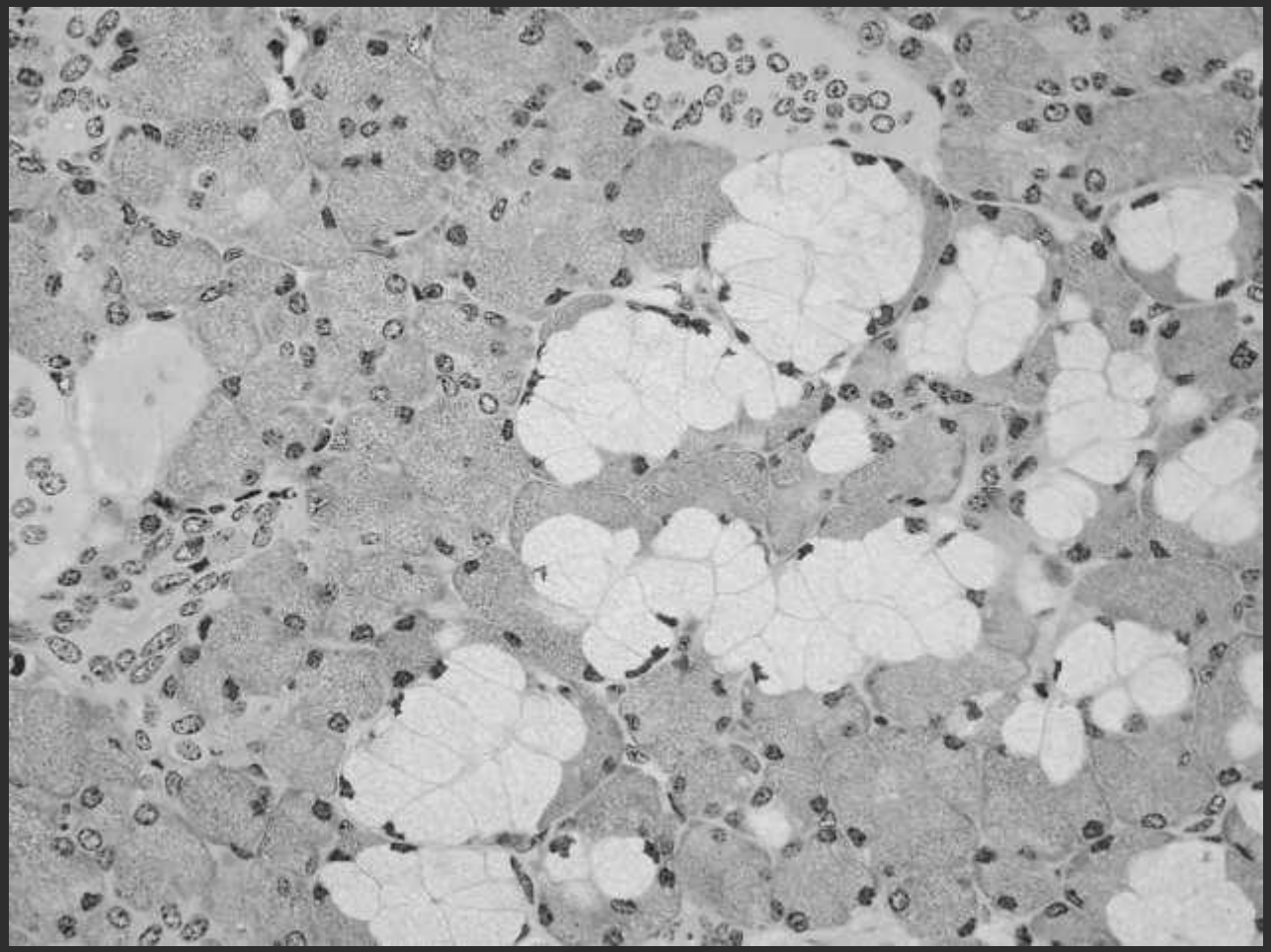
Submandibular gland

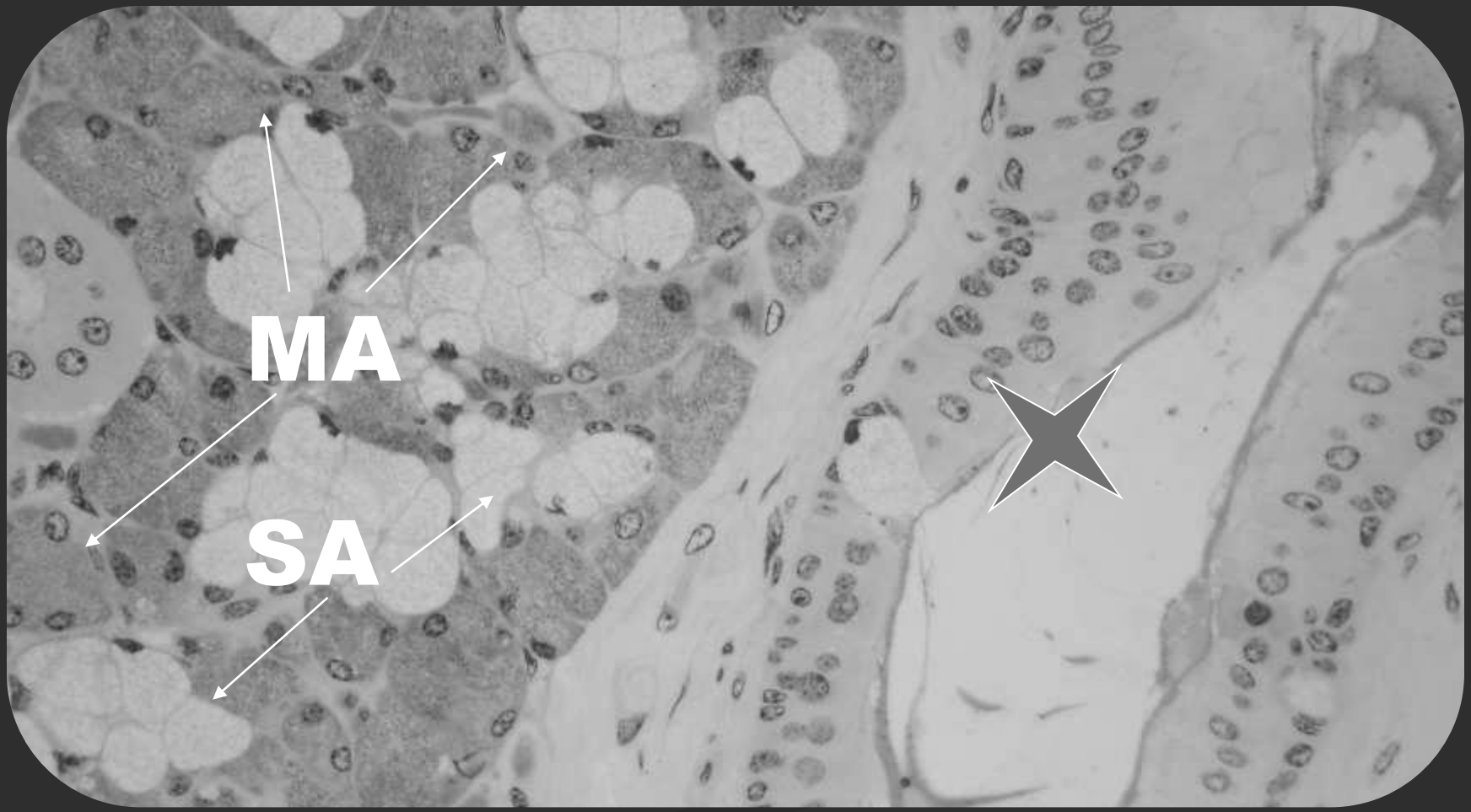


Seromucous gland(mixed)



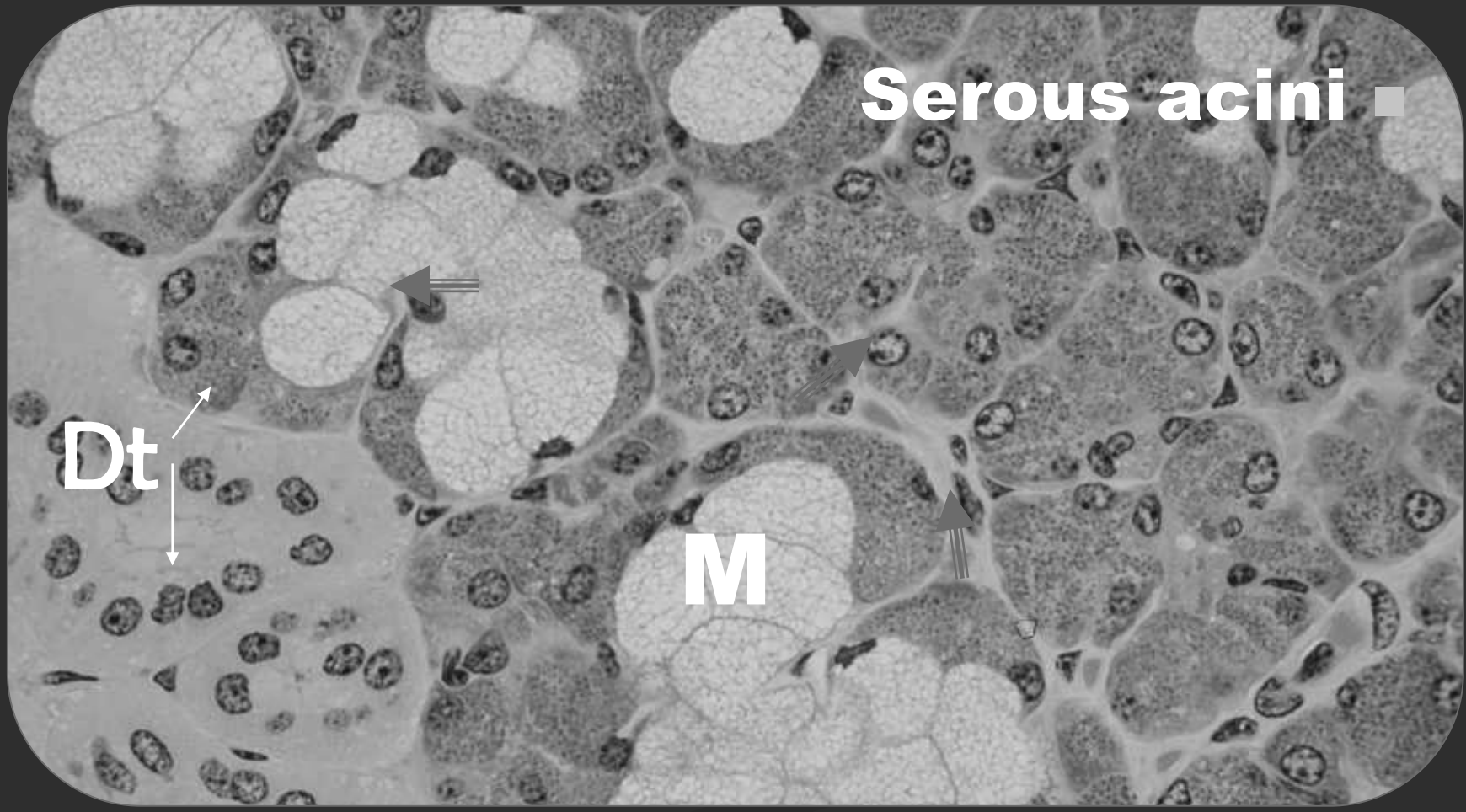
Submandibular gland



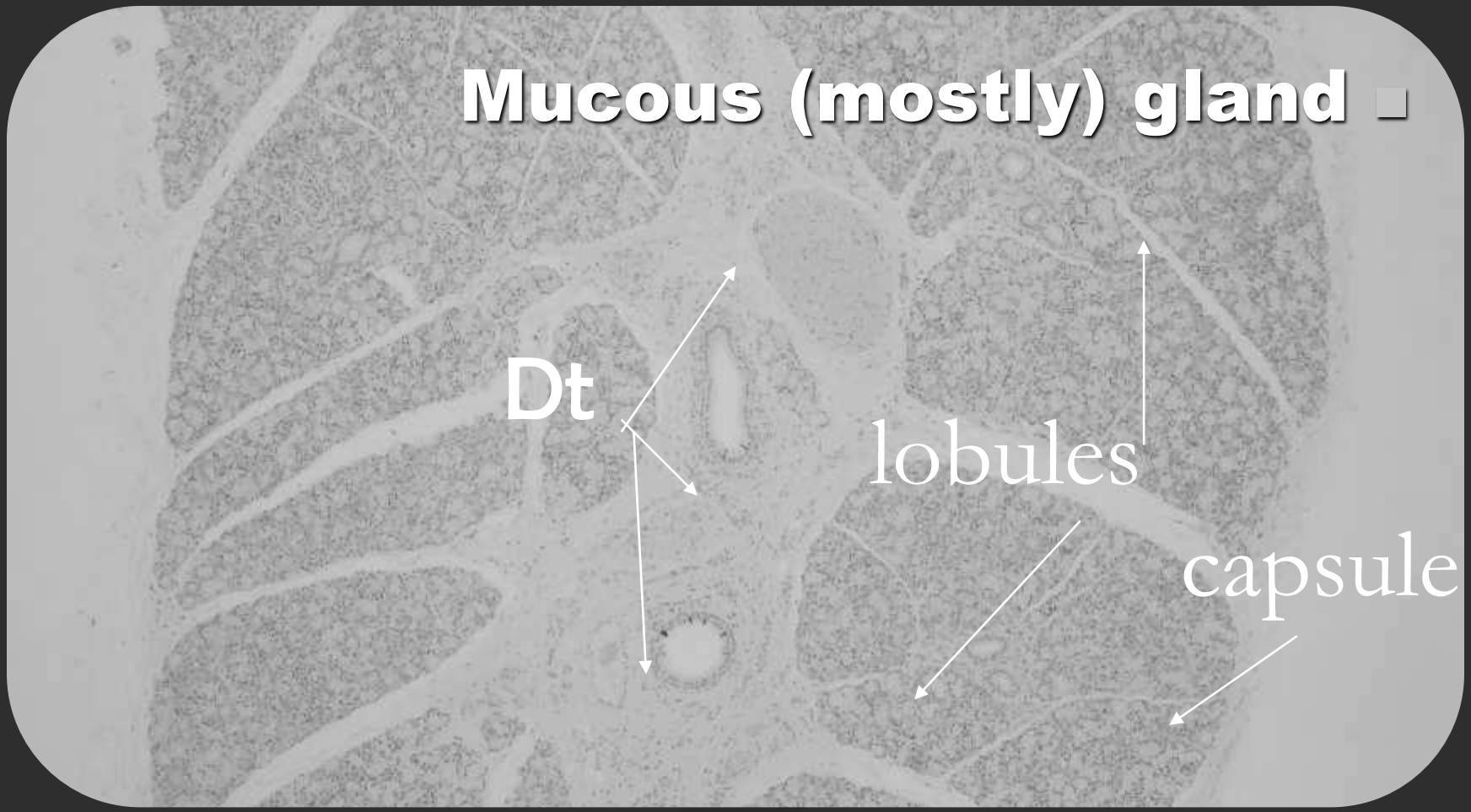

MA
SA

Serous demilune

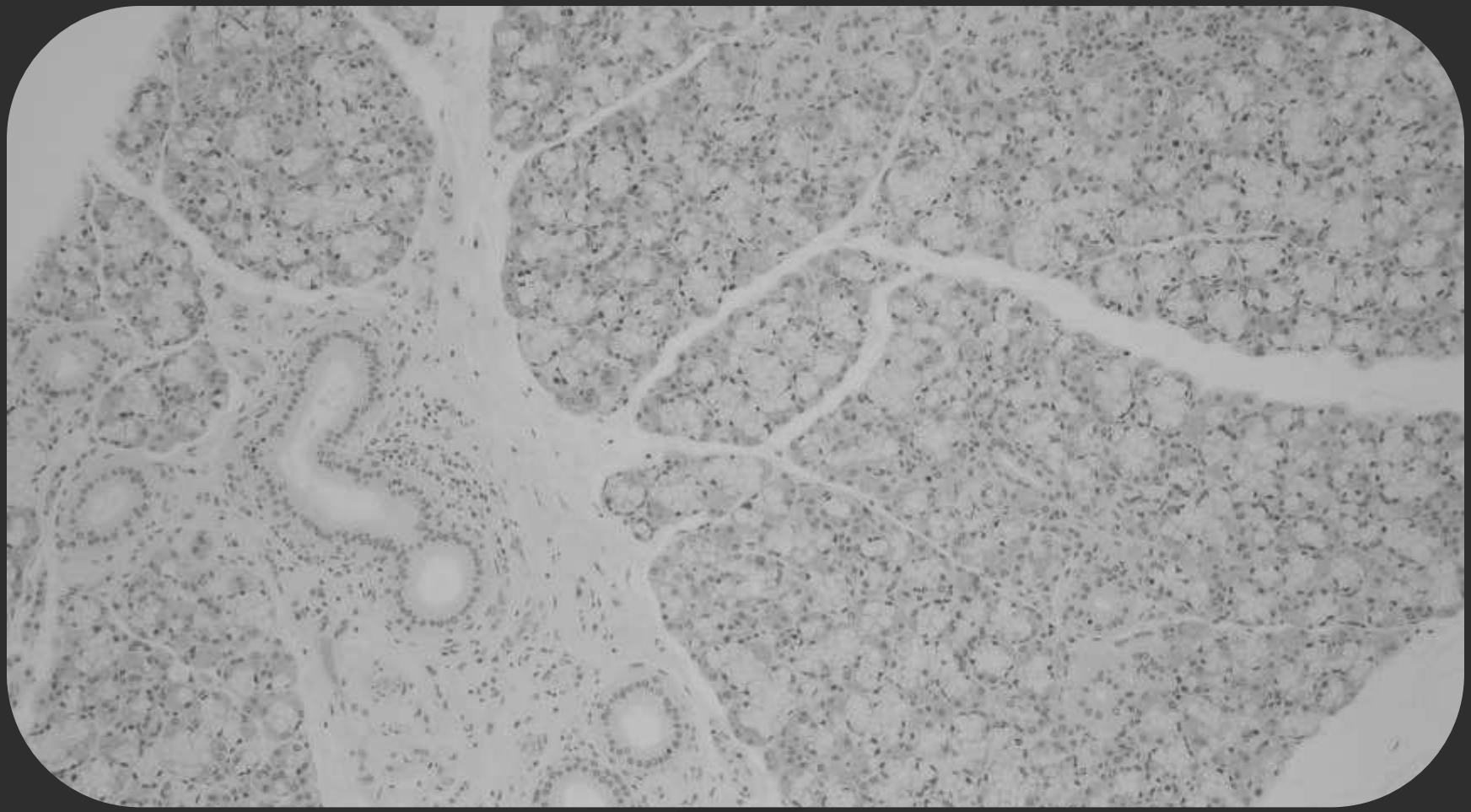
Serous demilune

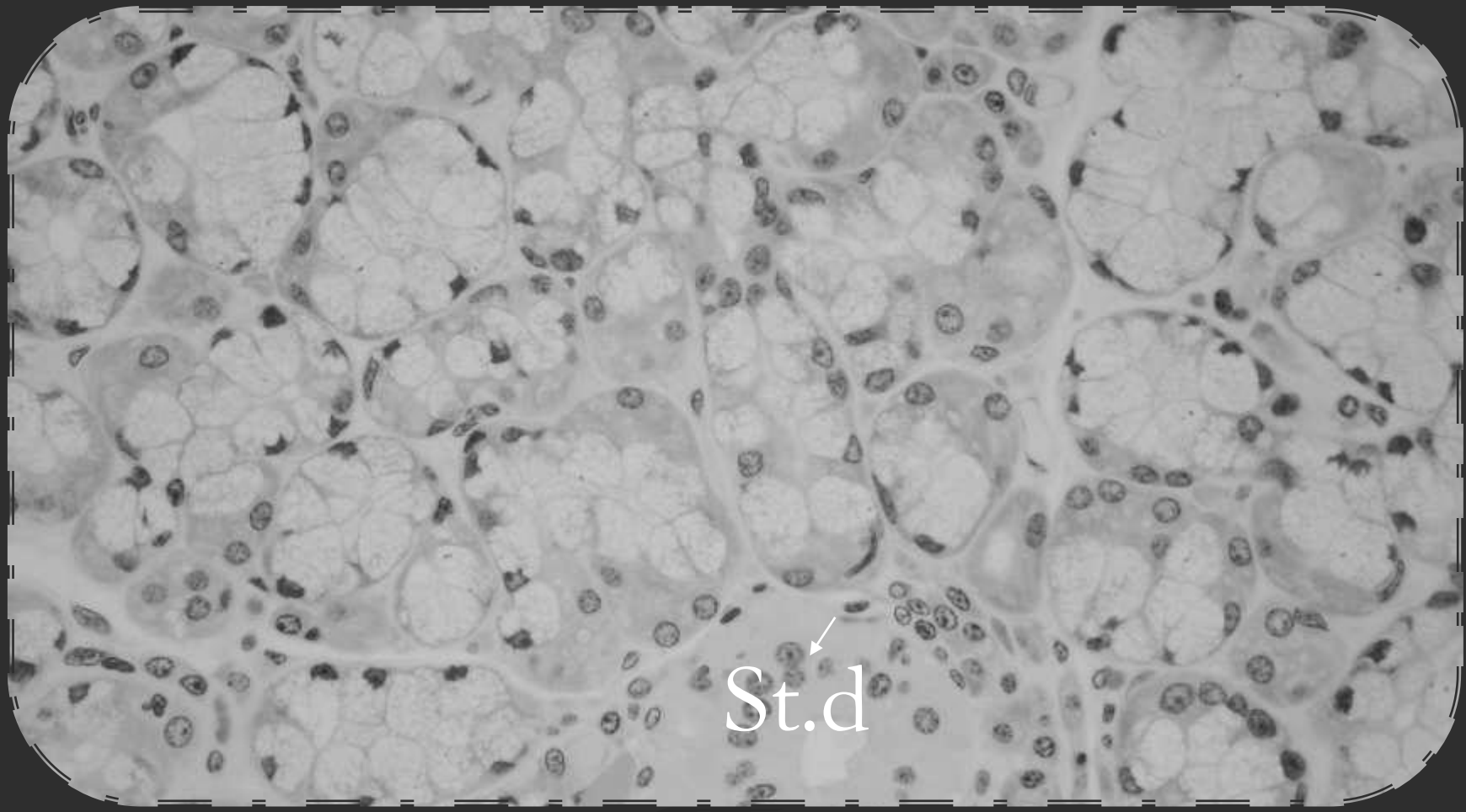


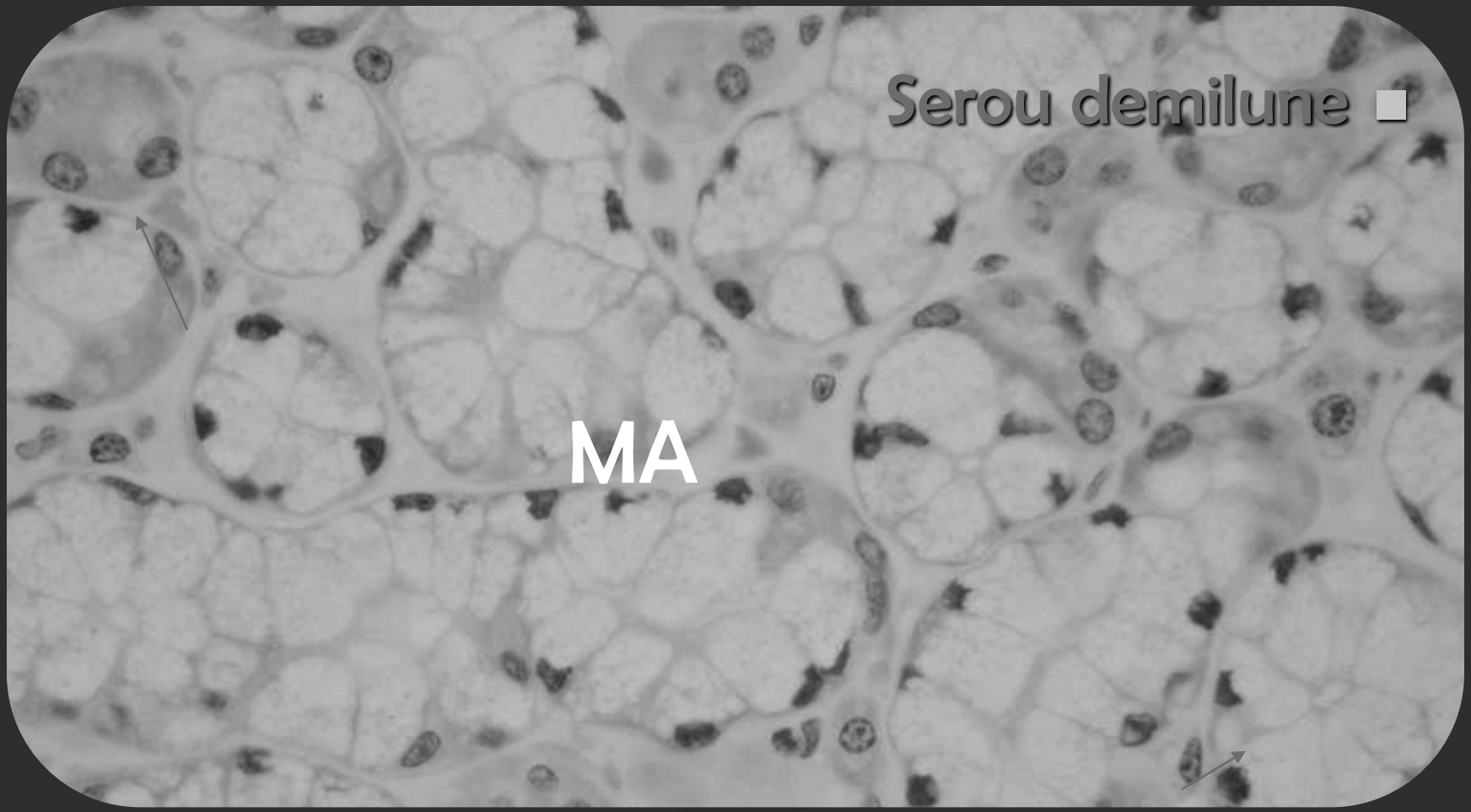
Sublingual gland



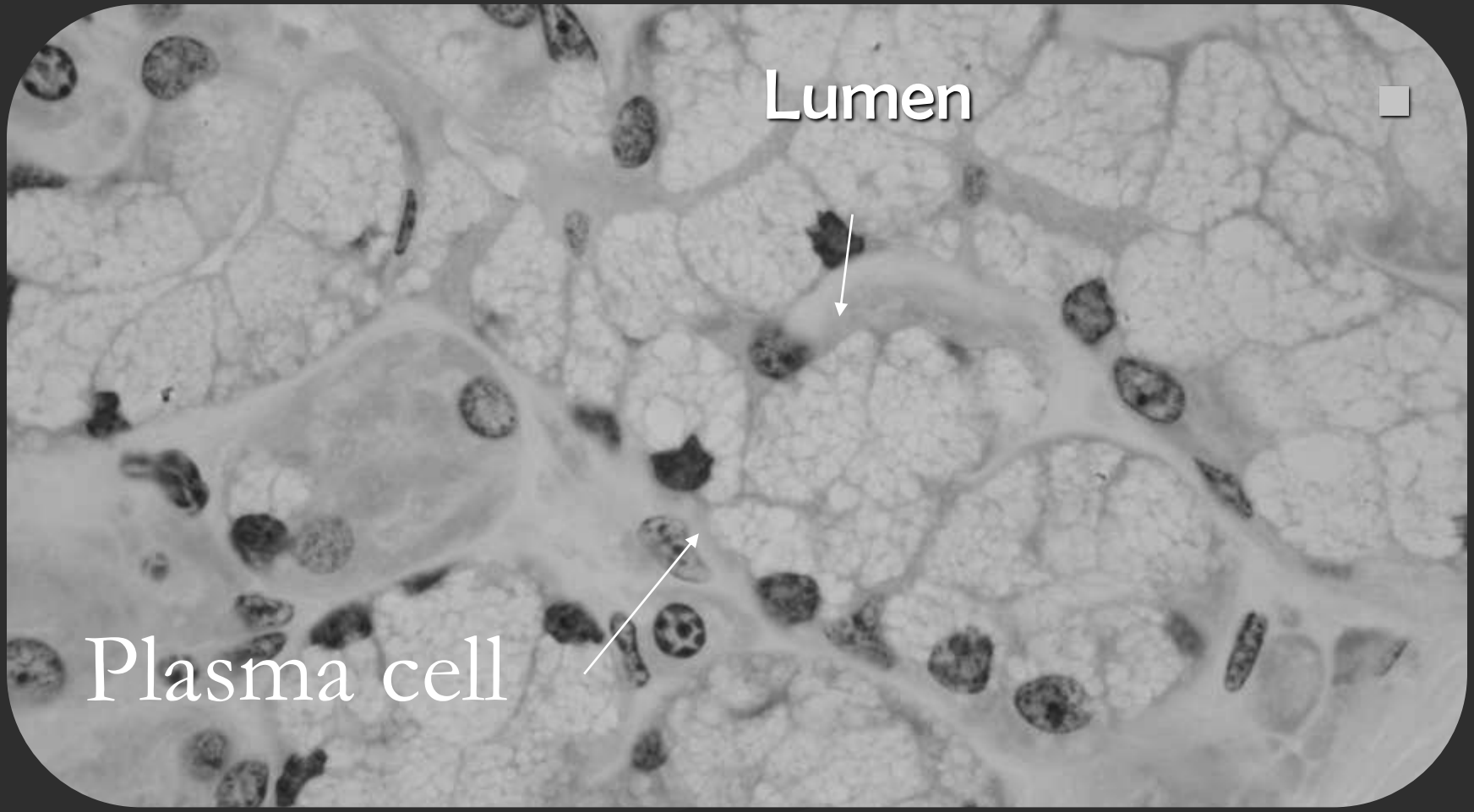
copound tubuloacinar gland



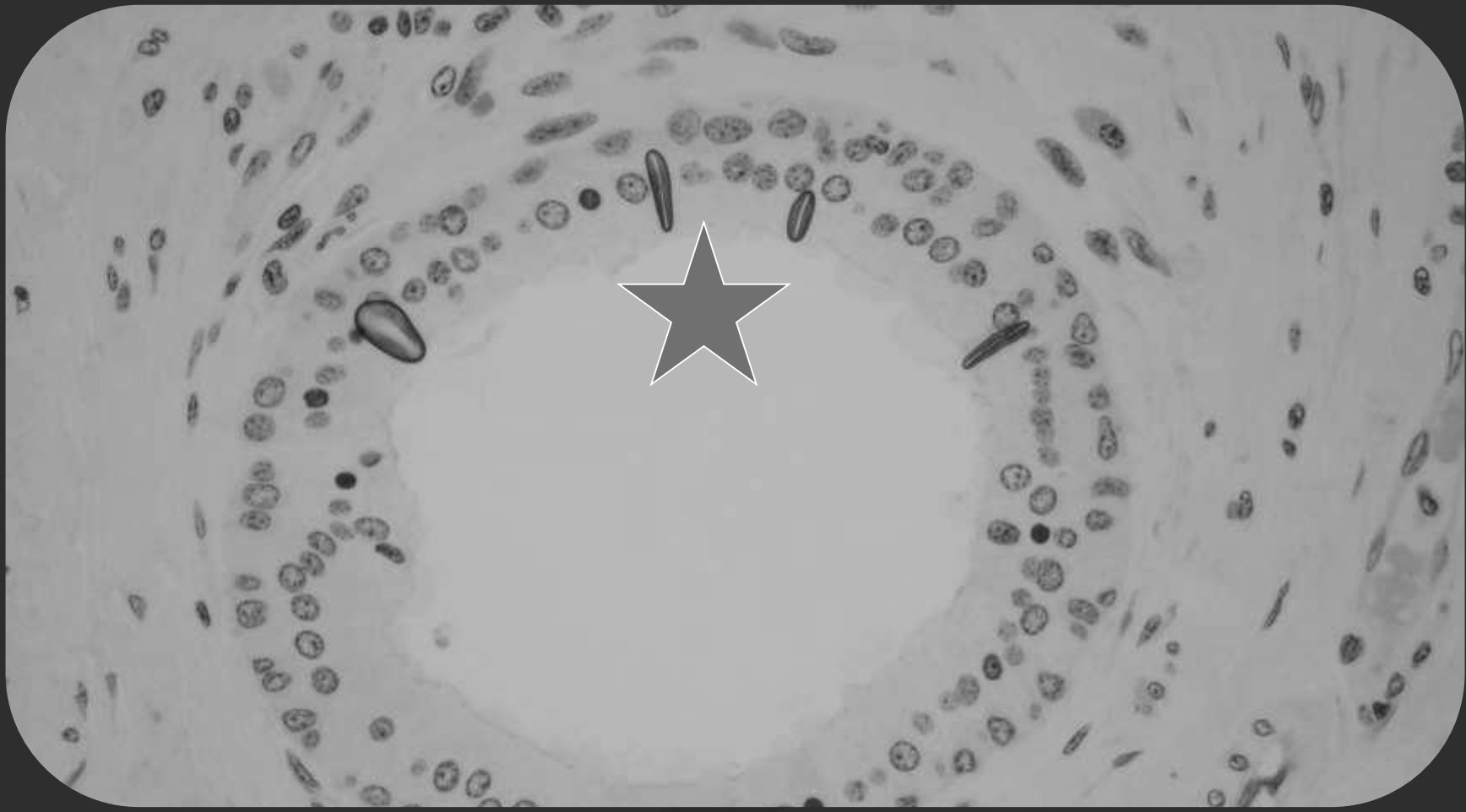

St.d


Serou demilune
MA

Sublingual gland


Lumen
Plasma cell

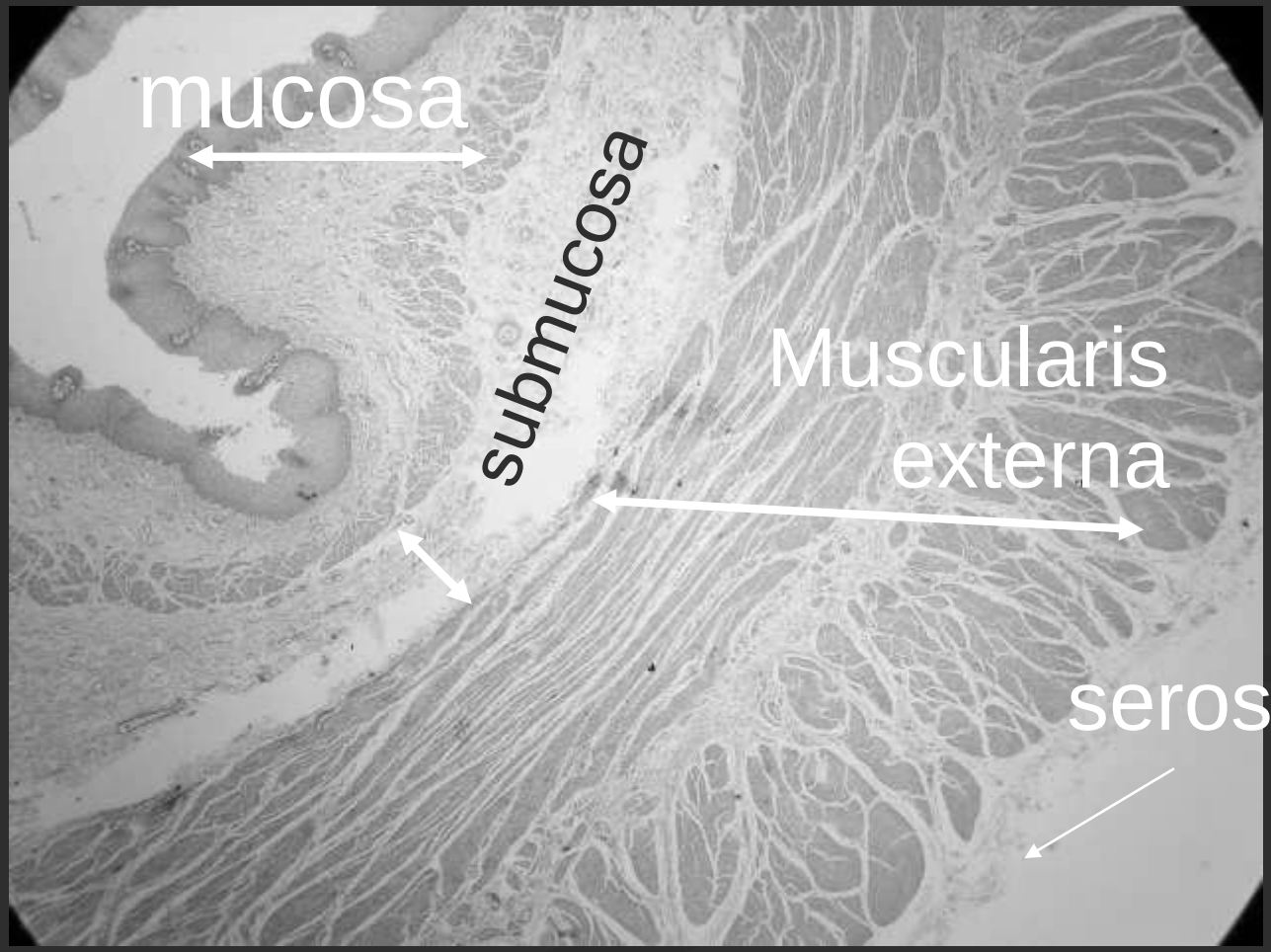
Strat. cubo.epth. duct



Esophagus

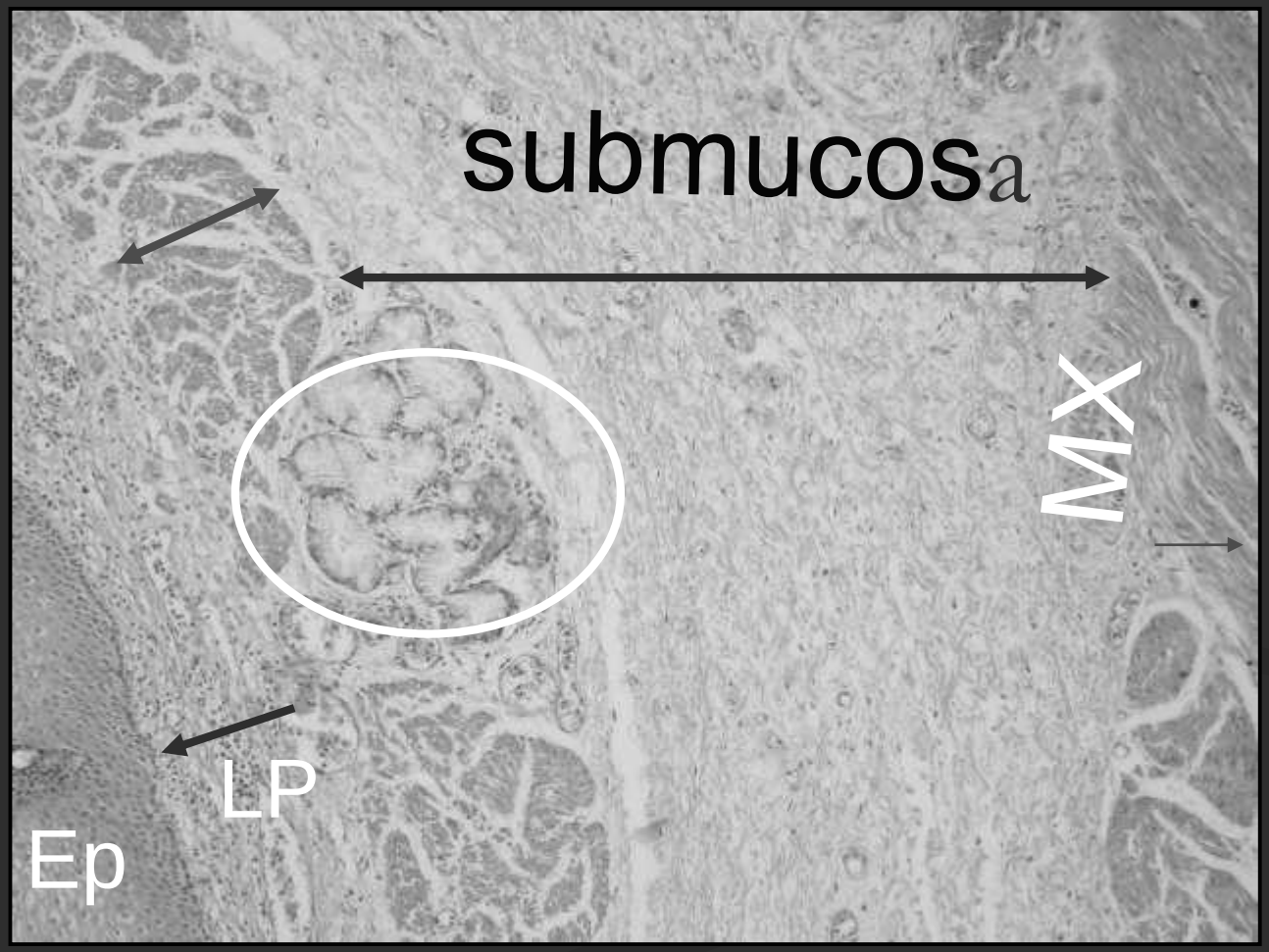
Esophagus(star lumen)

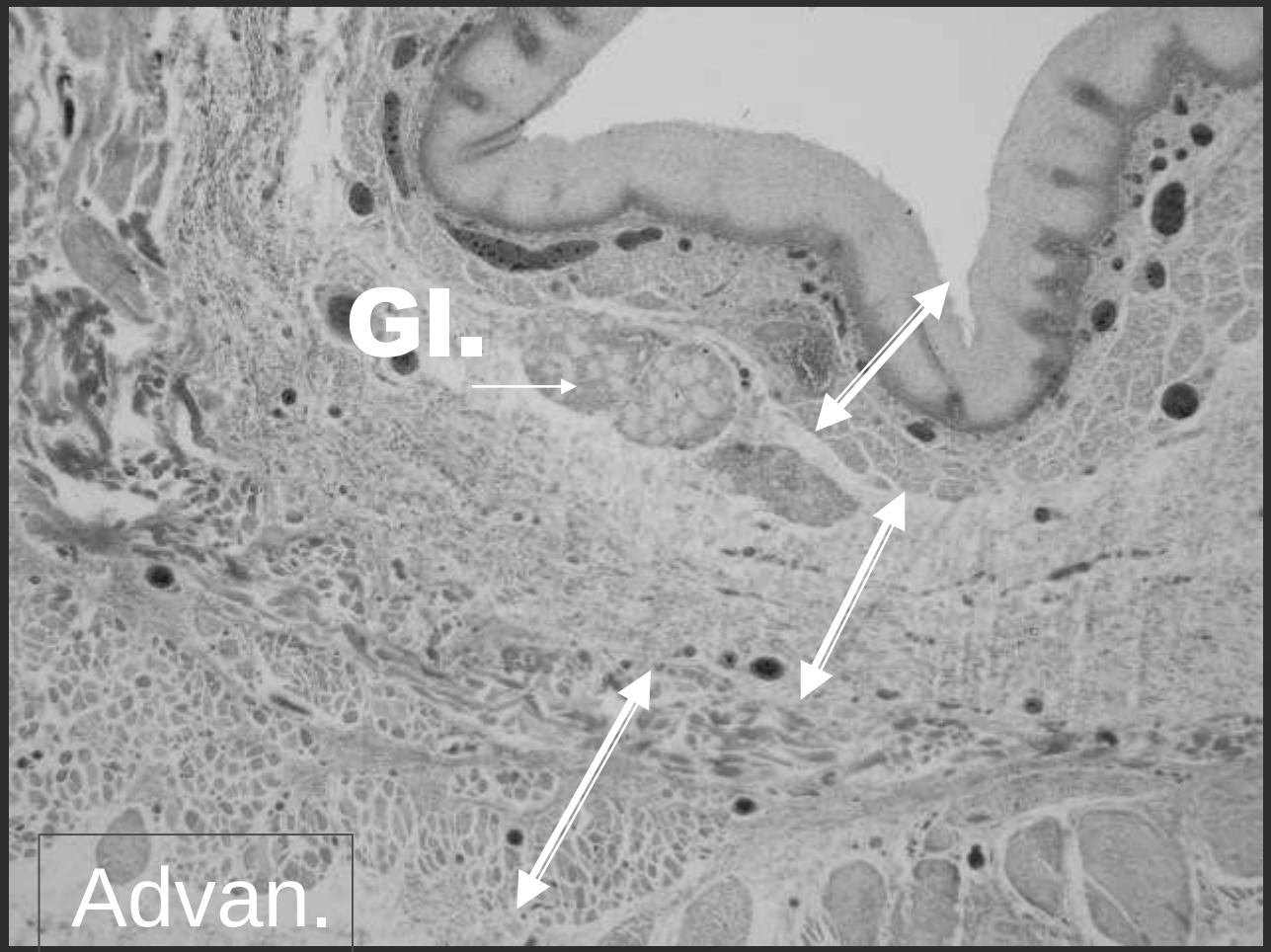
Esophagus(lower third)



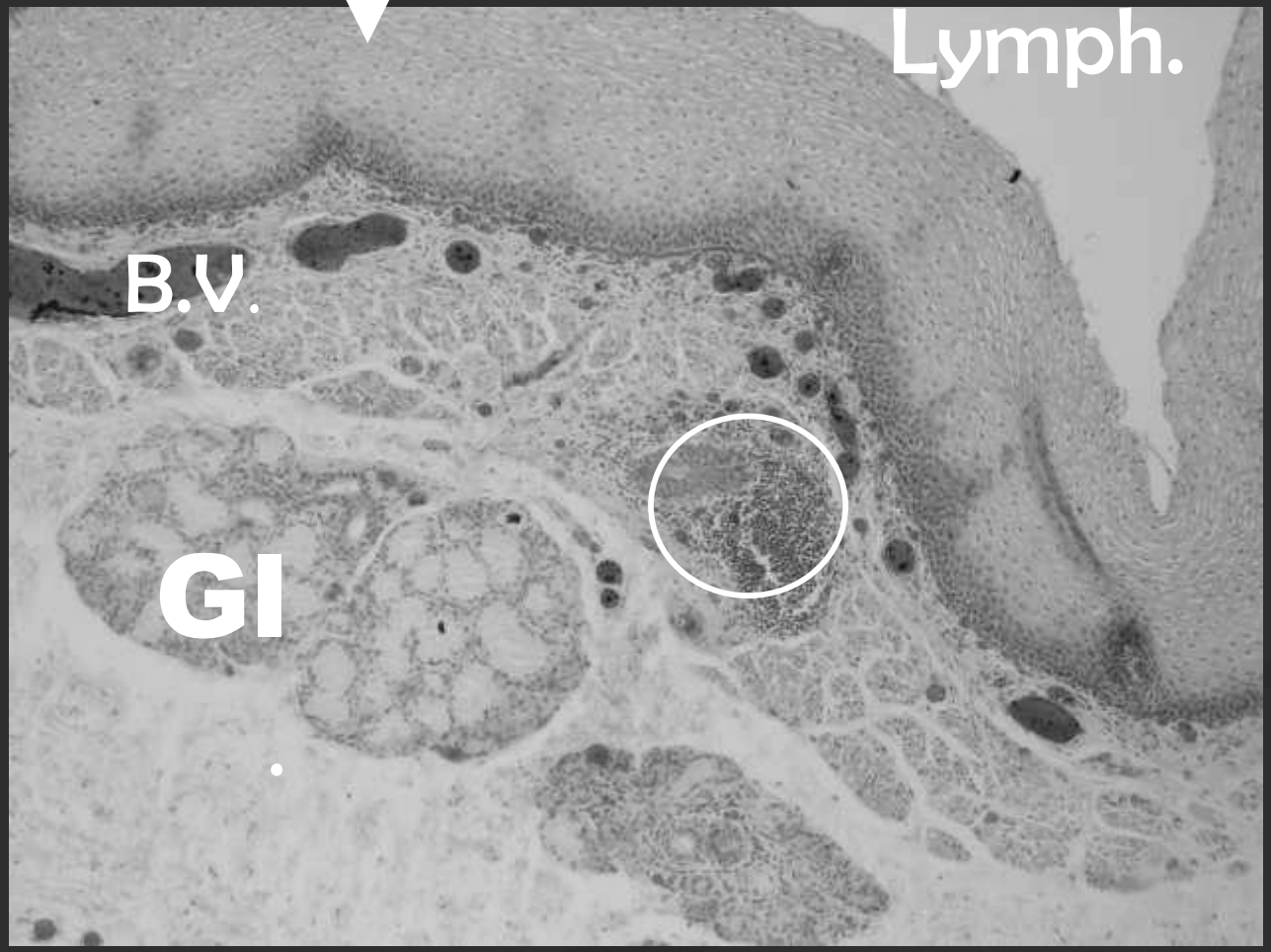
Eosophageal proper gland

muscularis mucosa

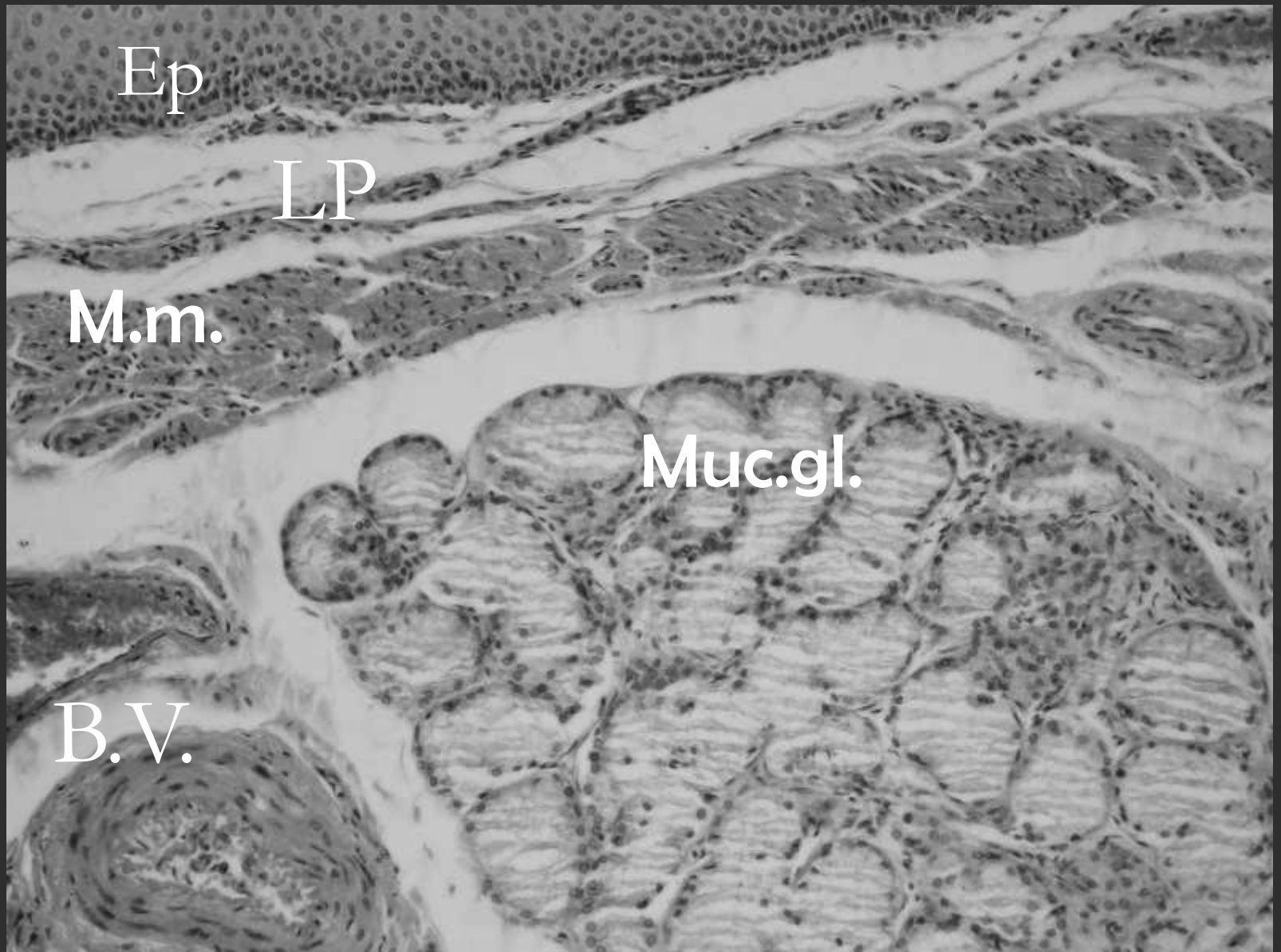



Gl.
Advan.

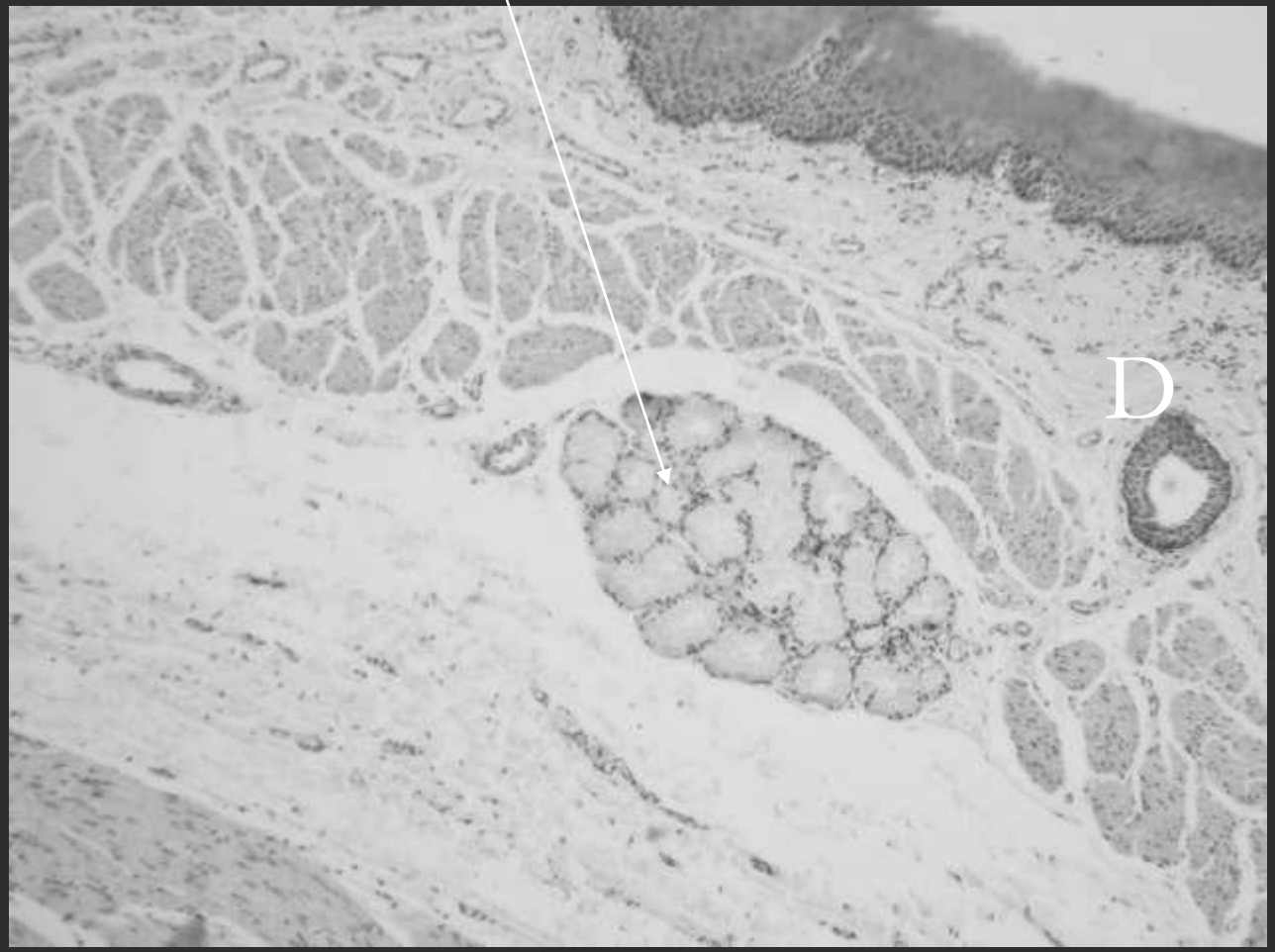
Str. Squa.epi.non ker.

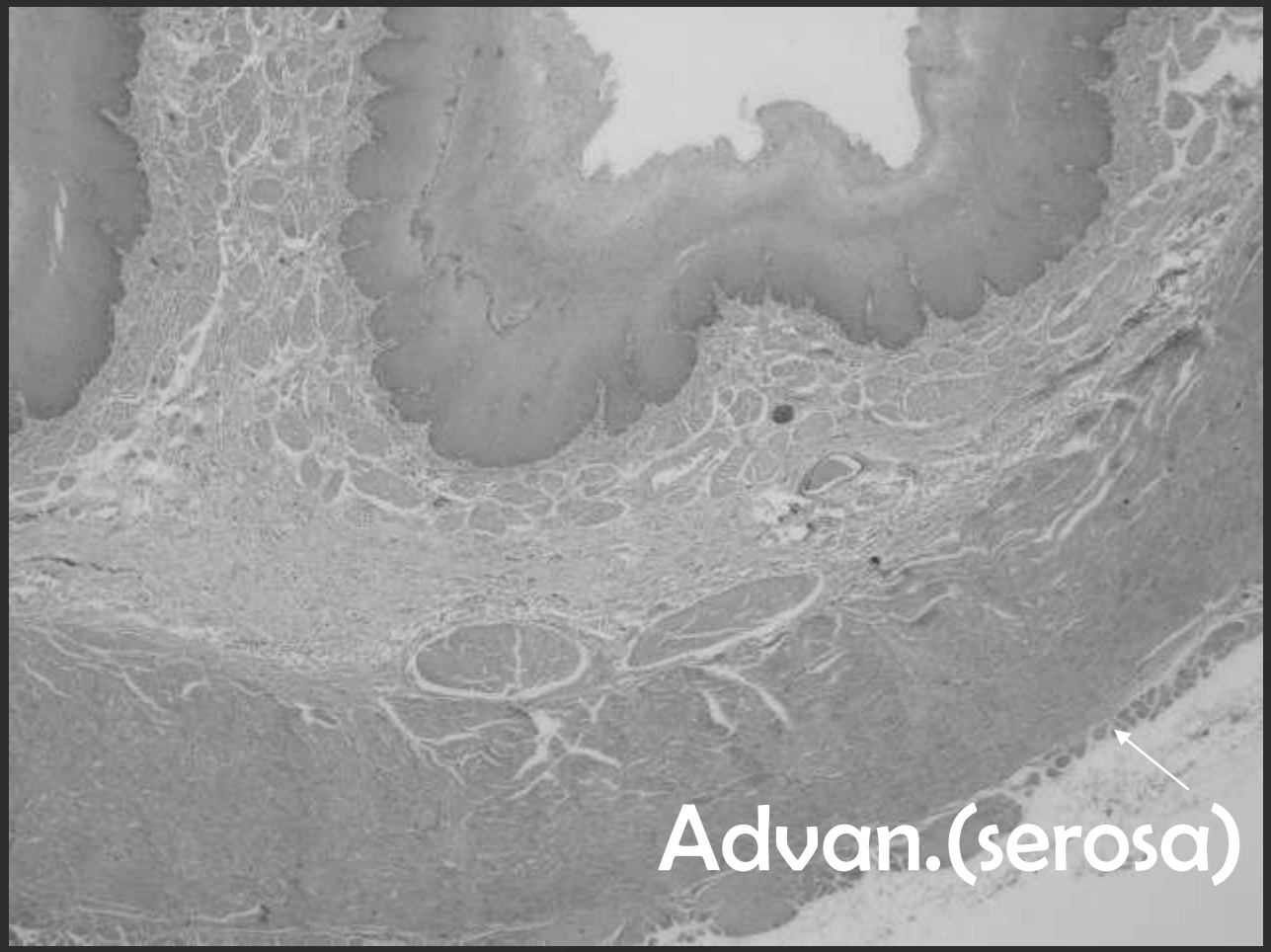


Eosophageal proper gland(in submucosa)

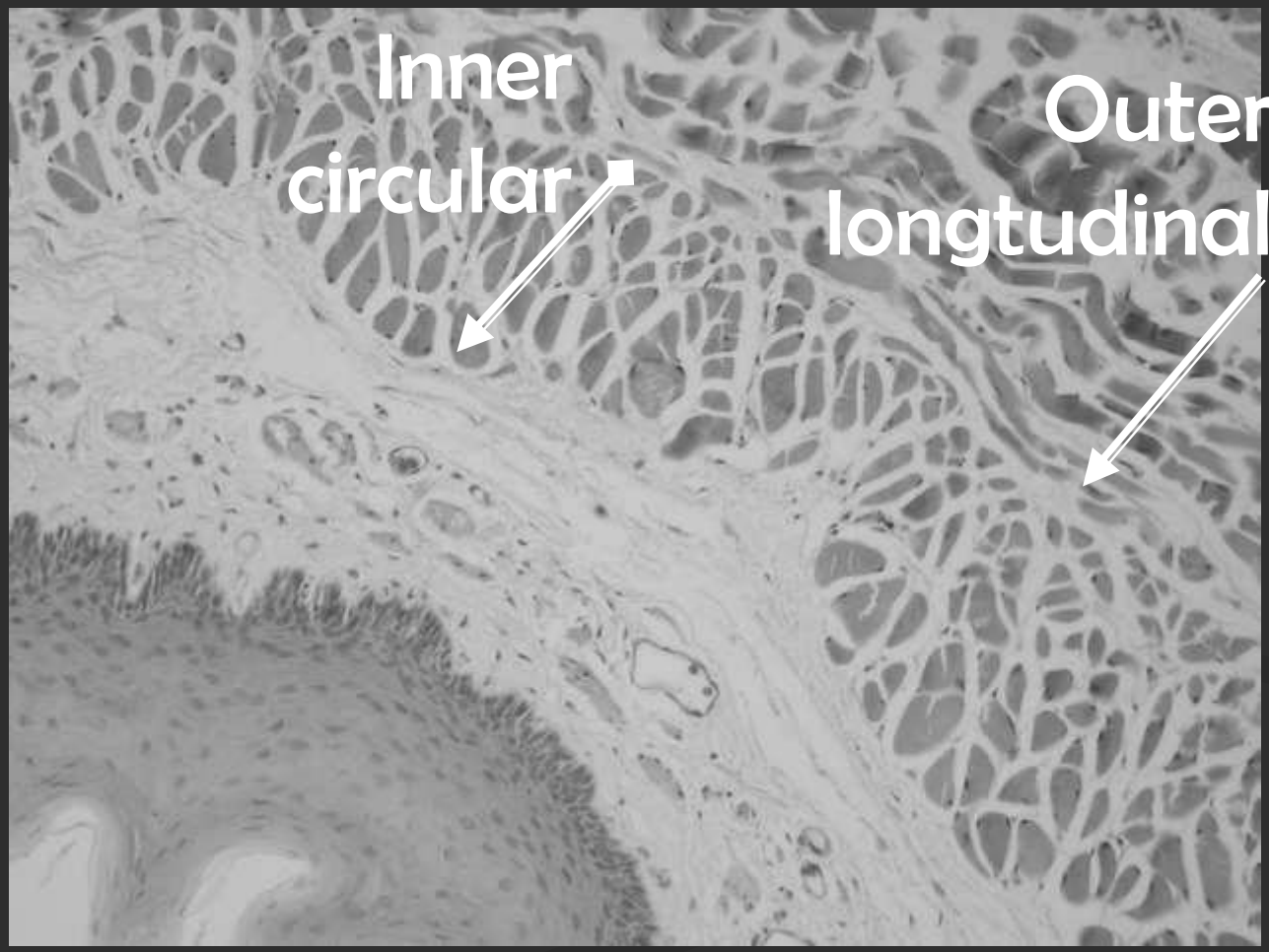


Esophagial gland proper (in submucosa)

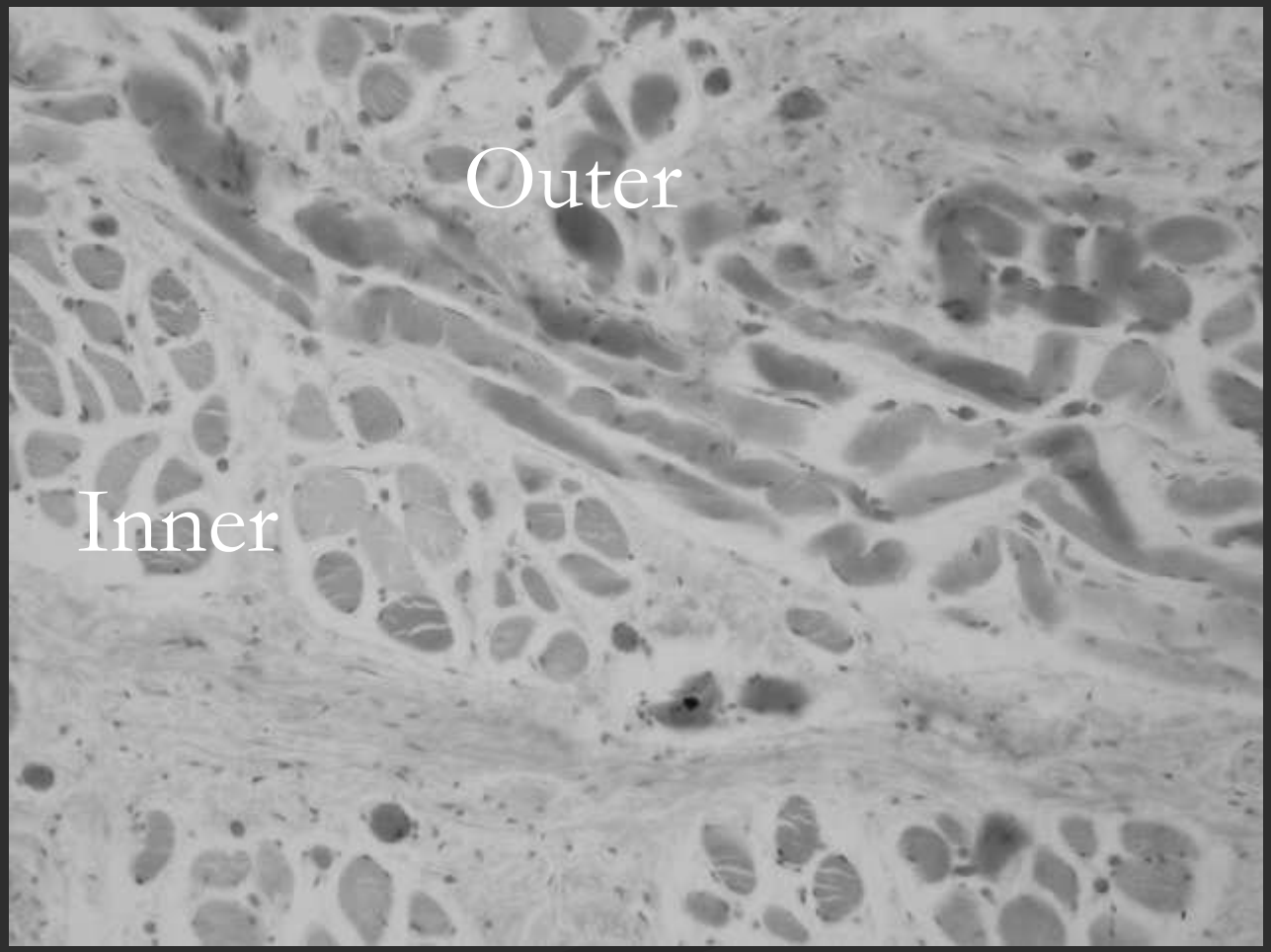


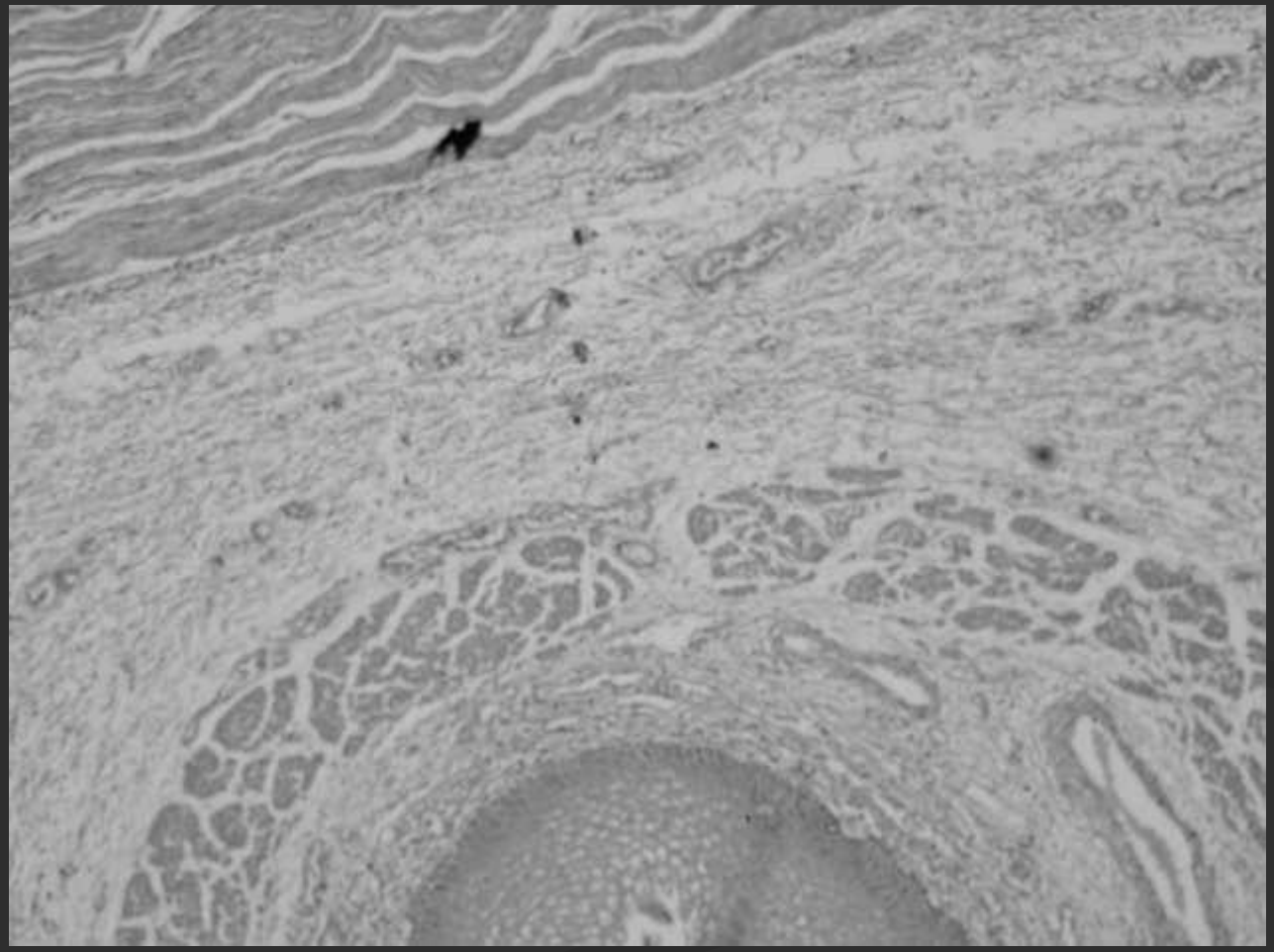

Advan.(serosa)

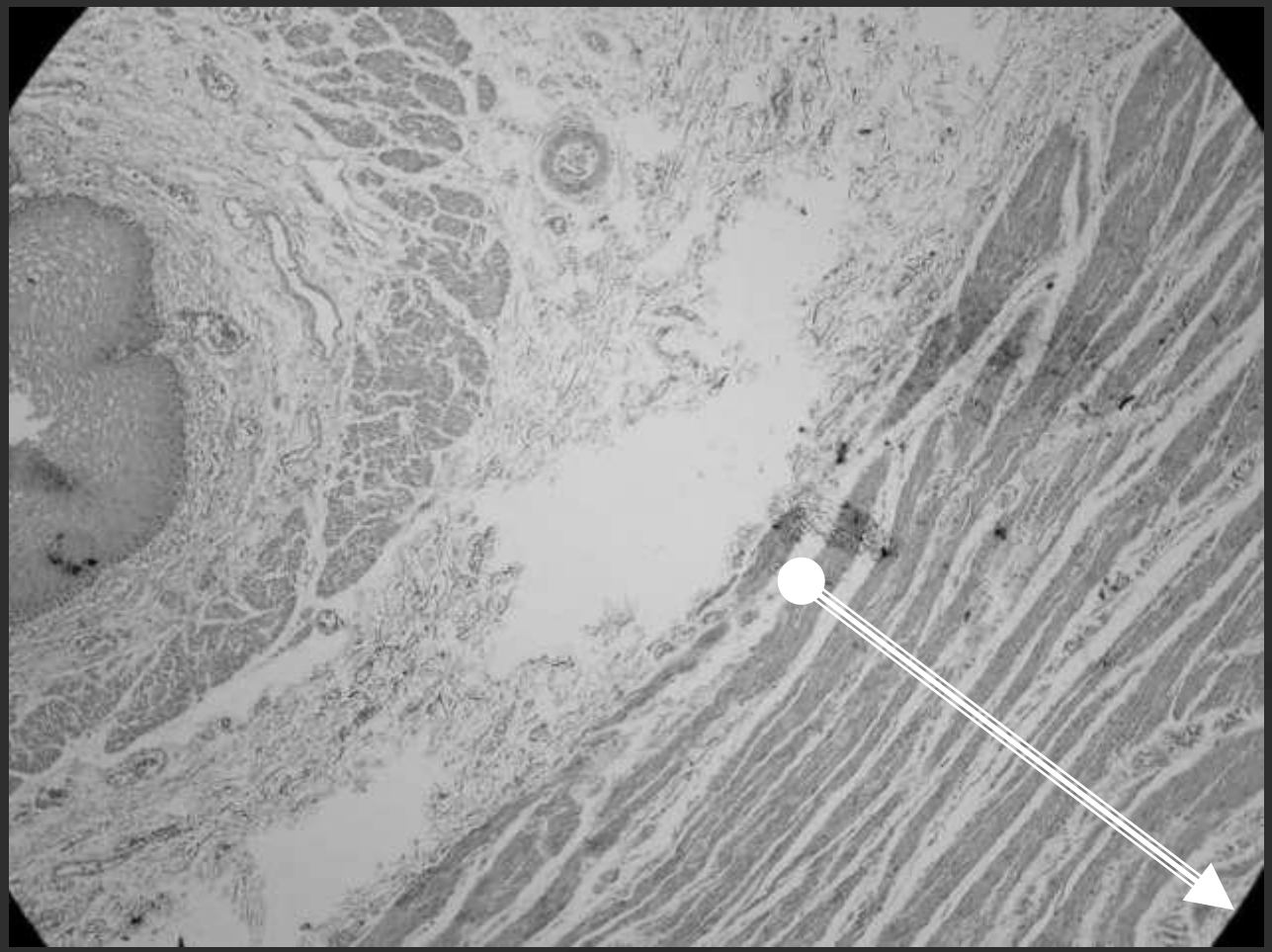
Esophagus(upper third)skeletal muscle mus. ext.



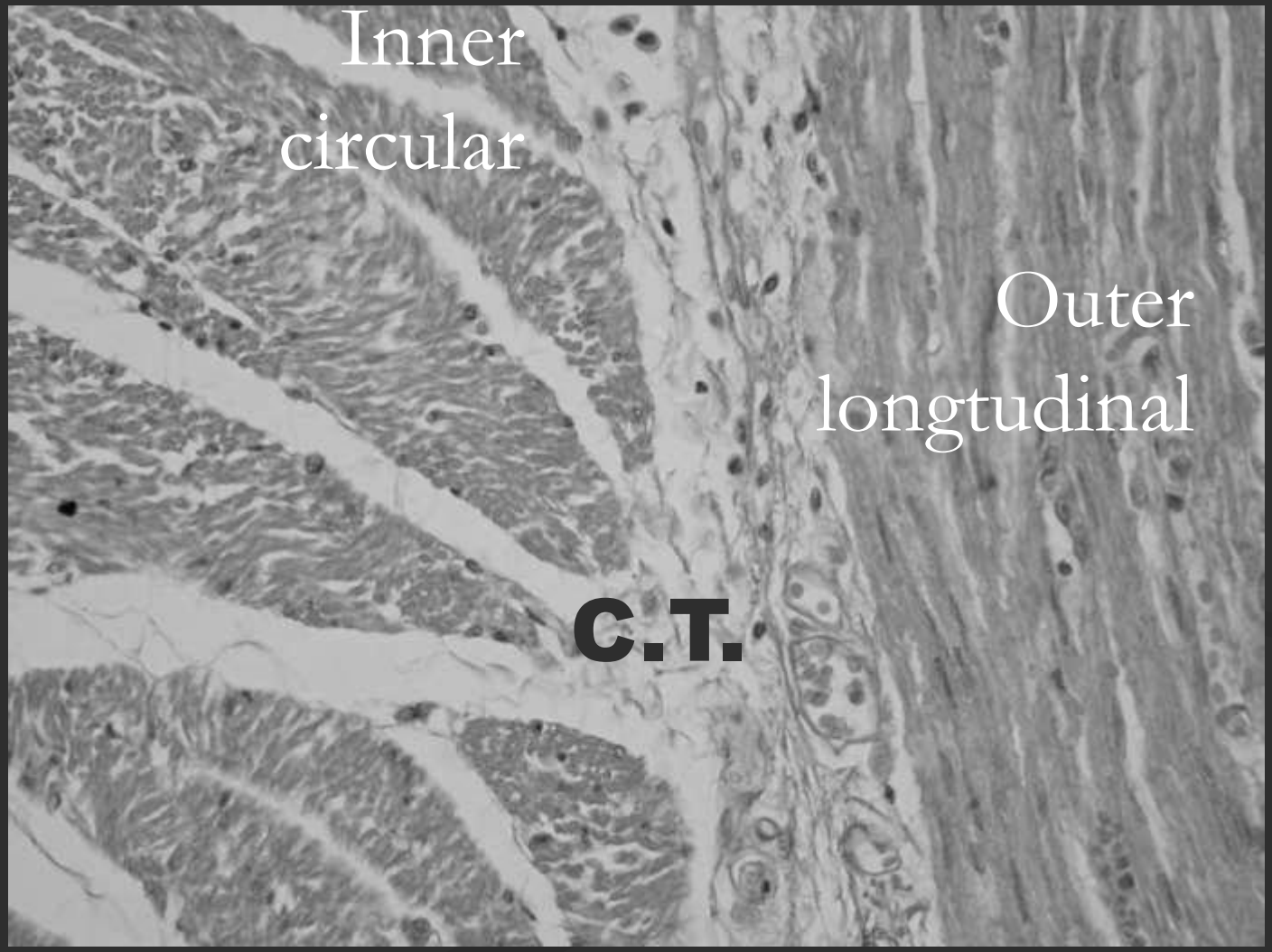
Skeletal mus.



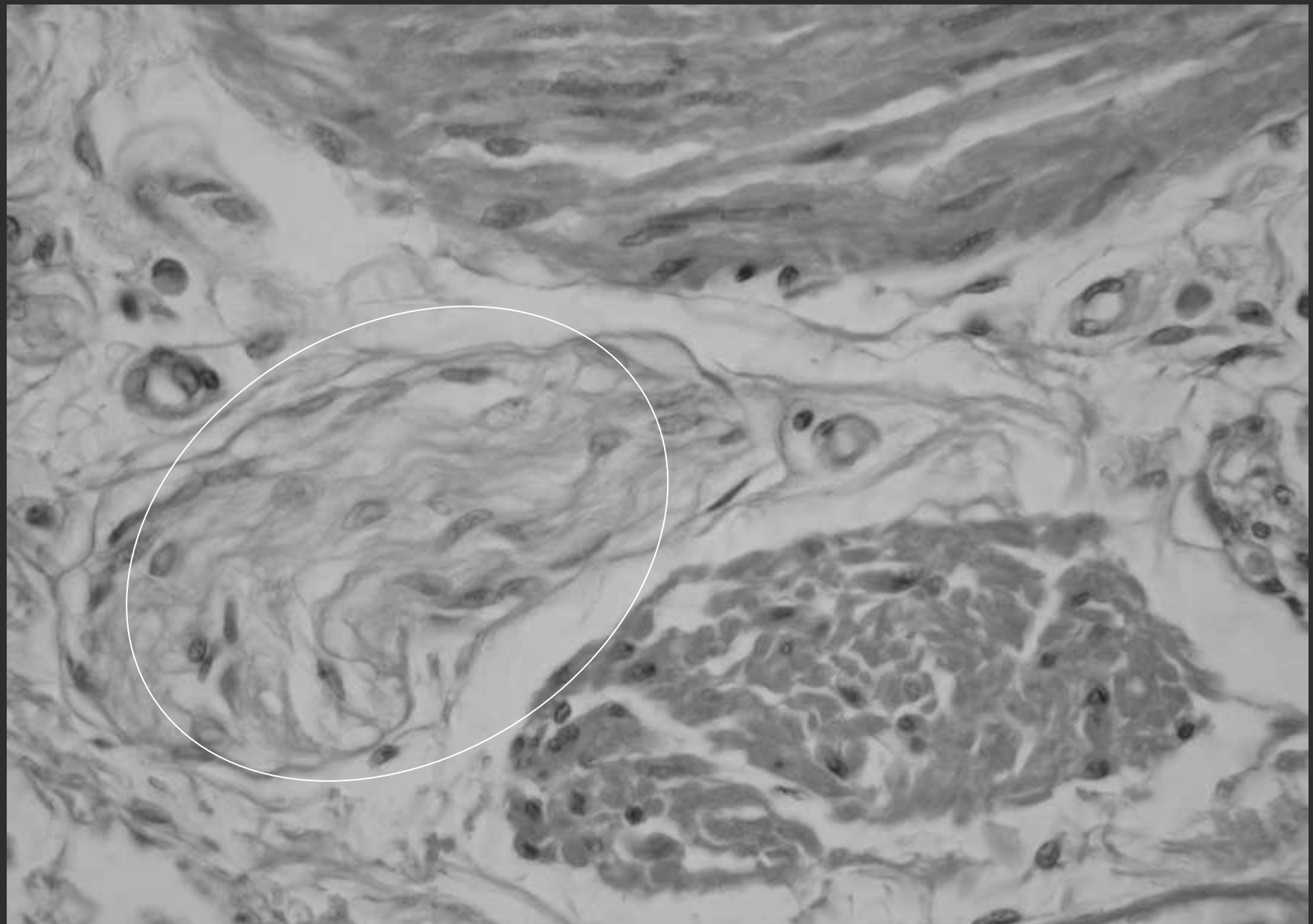




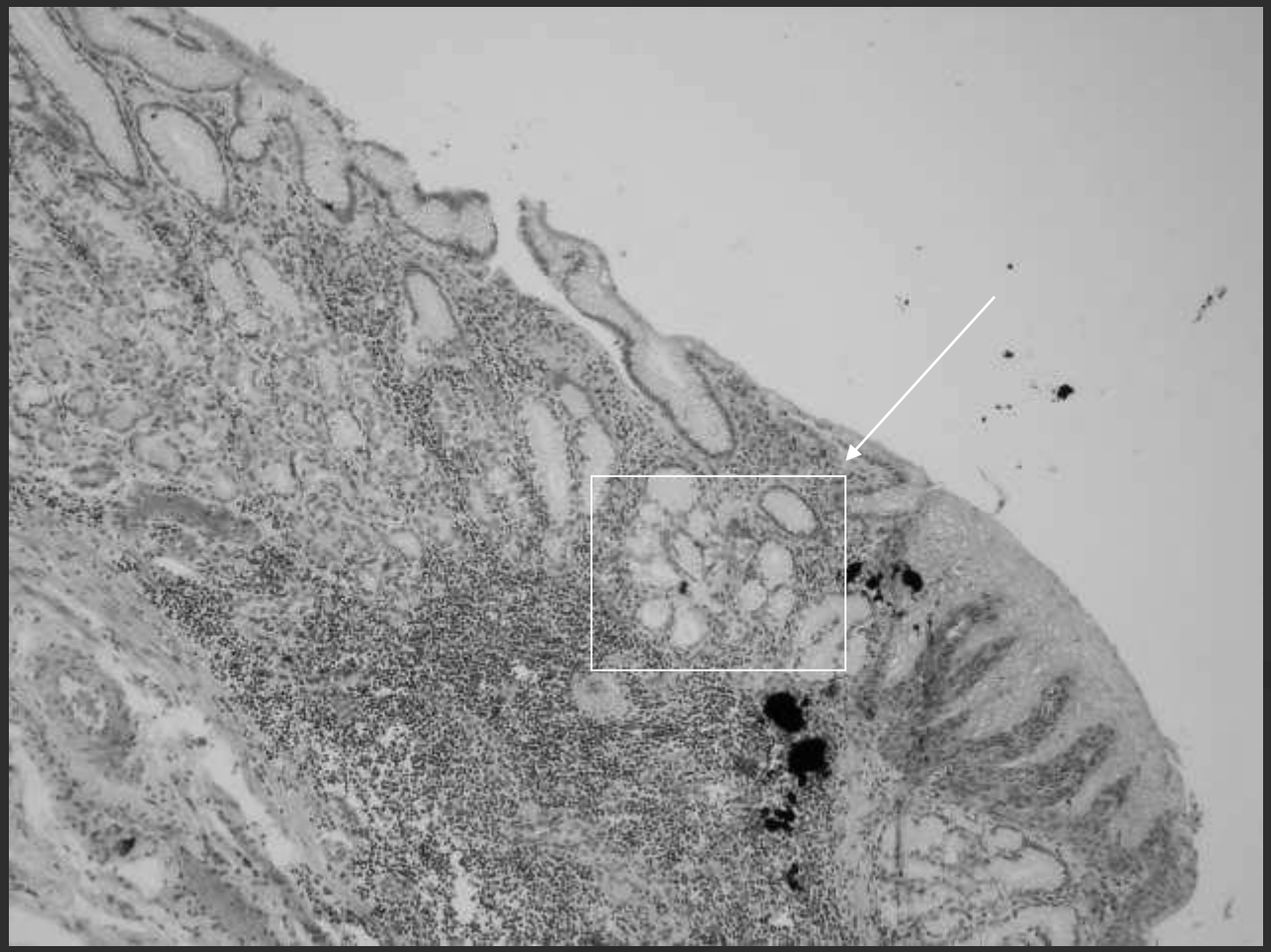
Lower third(smooth muscle)



Nerve fibers

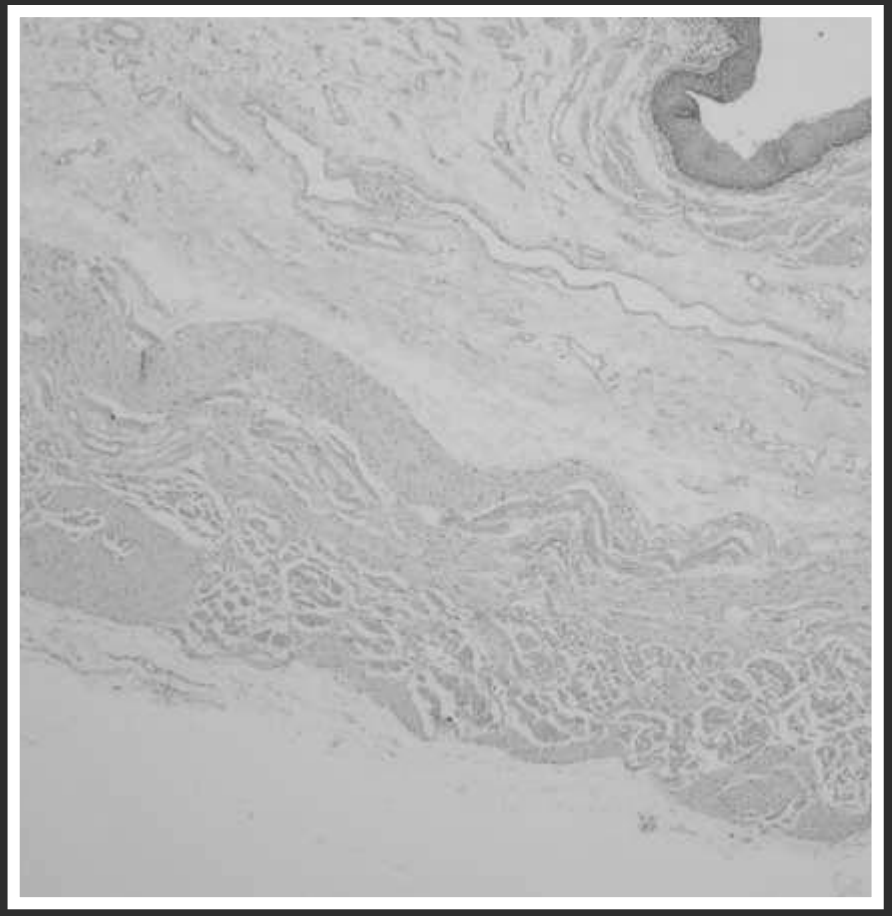


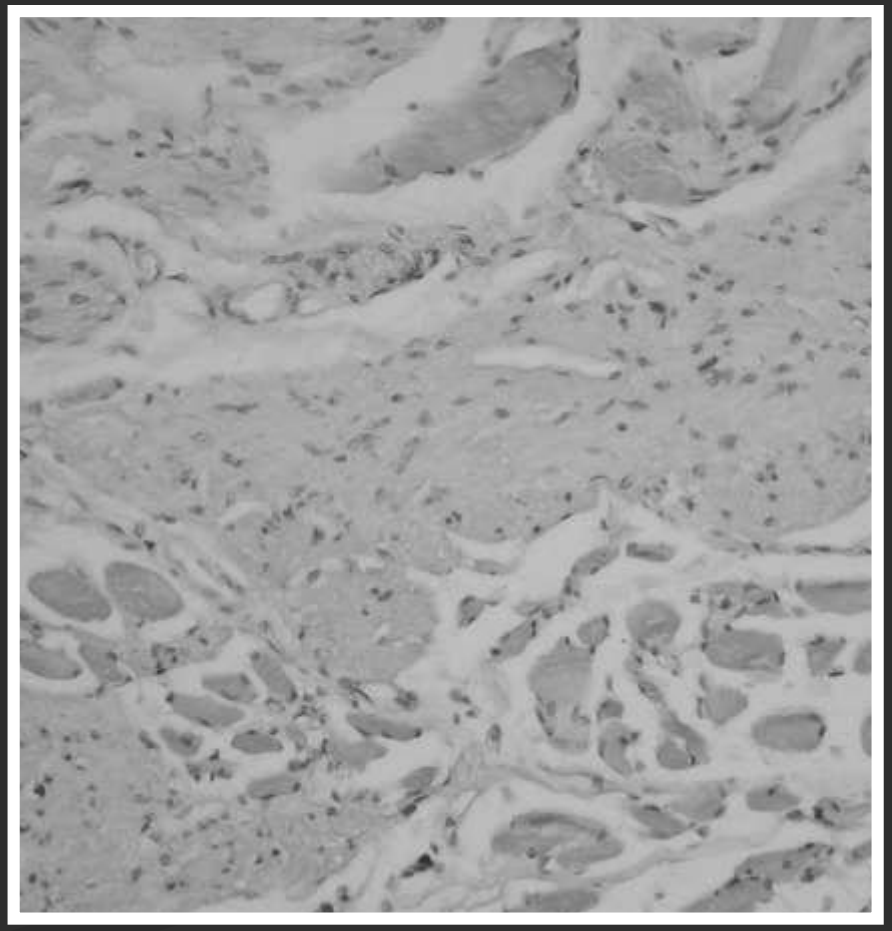
Cardiac gland in l.P.@junction



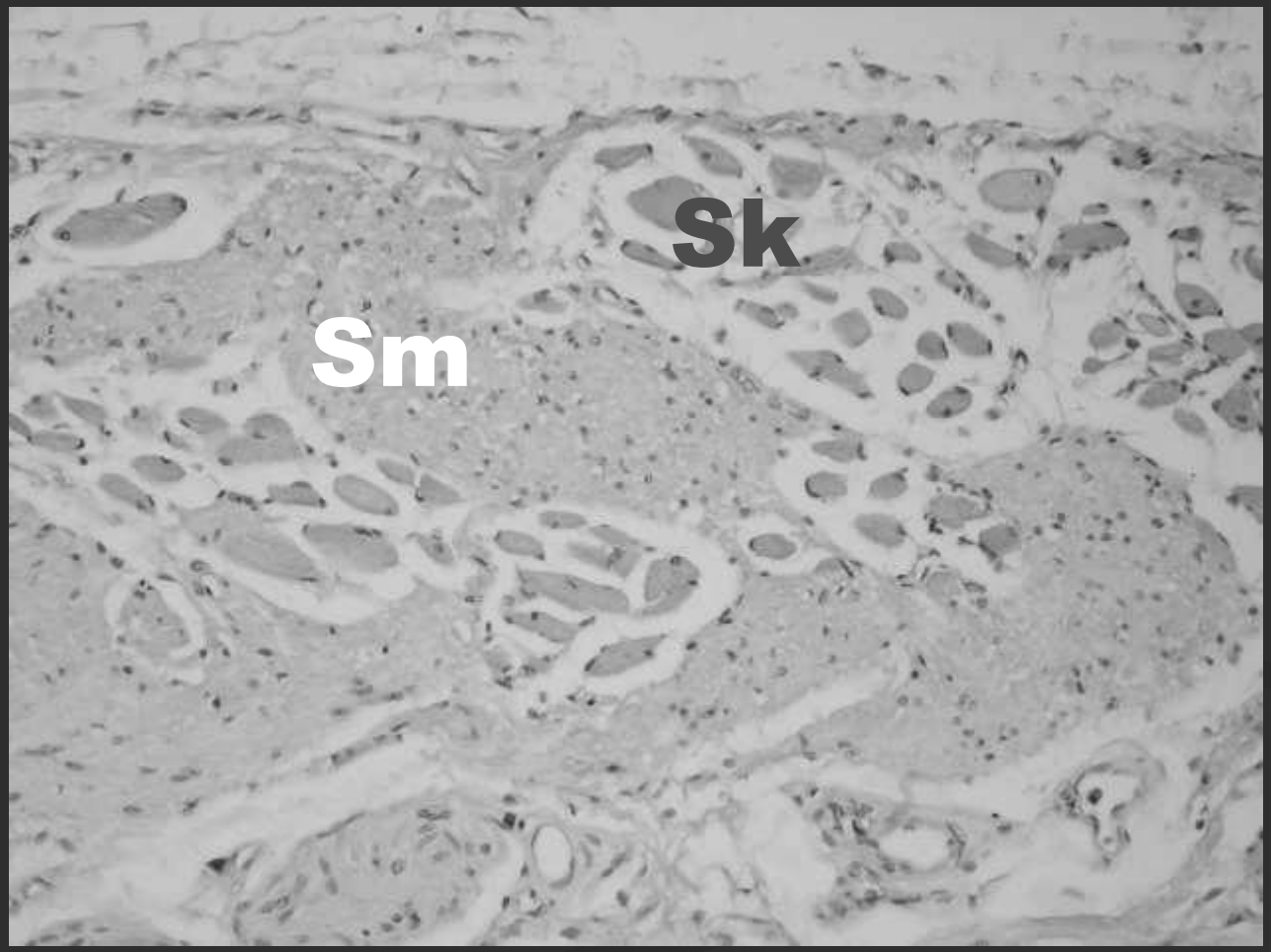
Mixed smooth&skeltal in mid.

eOsoph.

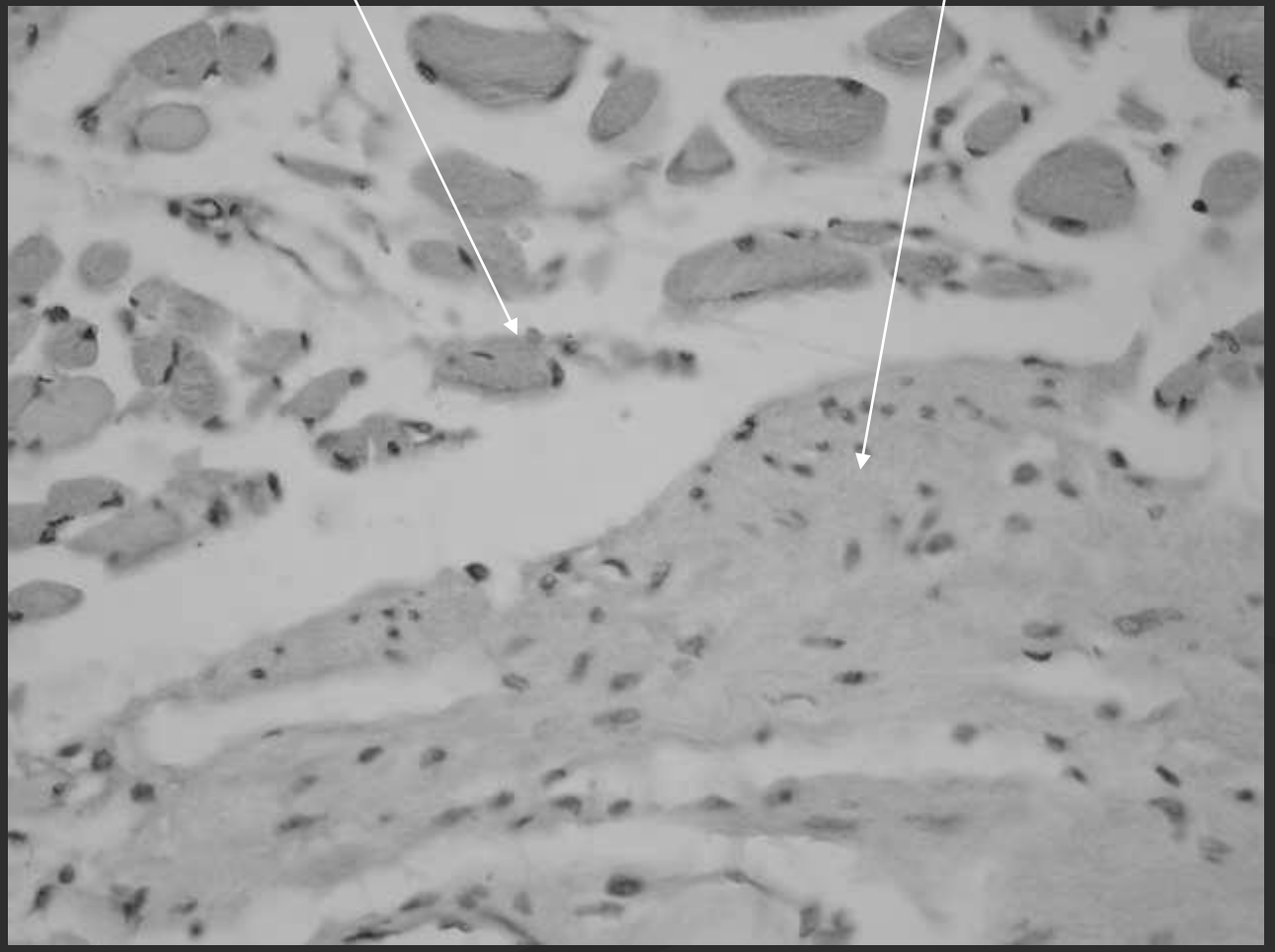




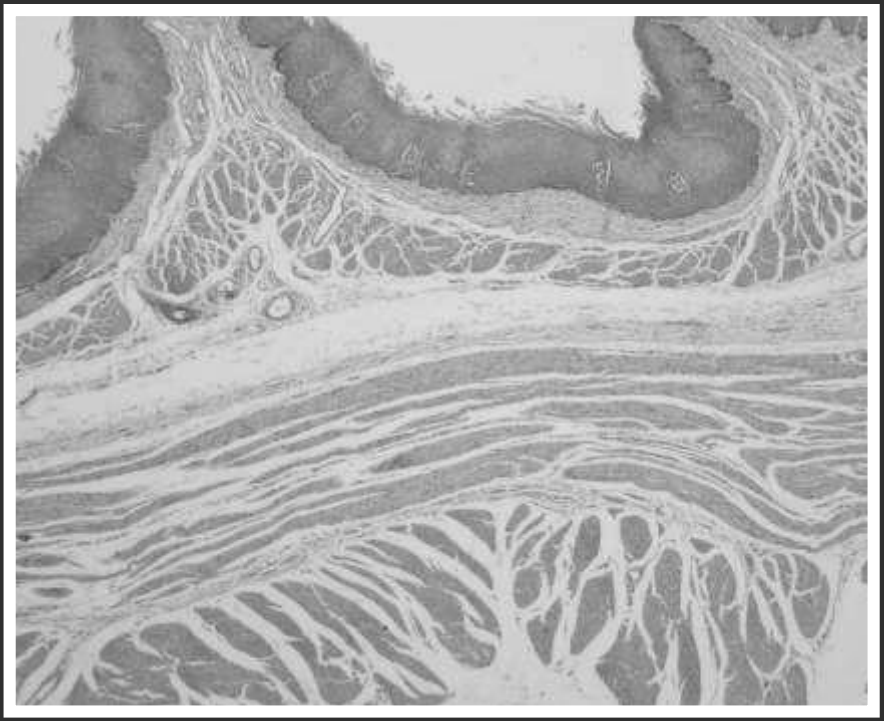
Smooth skeletal muscle

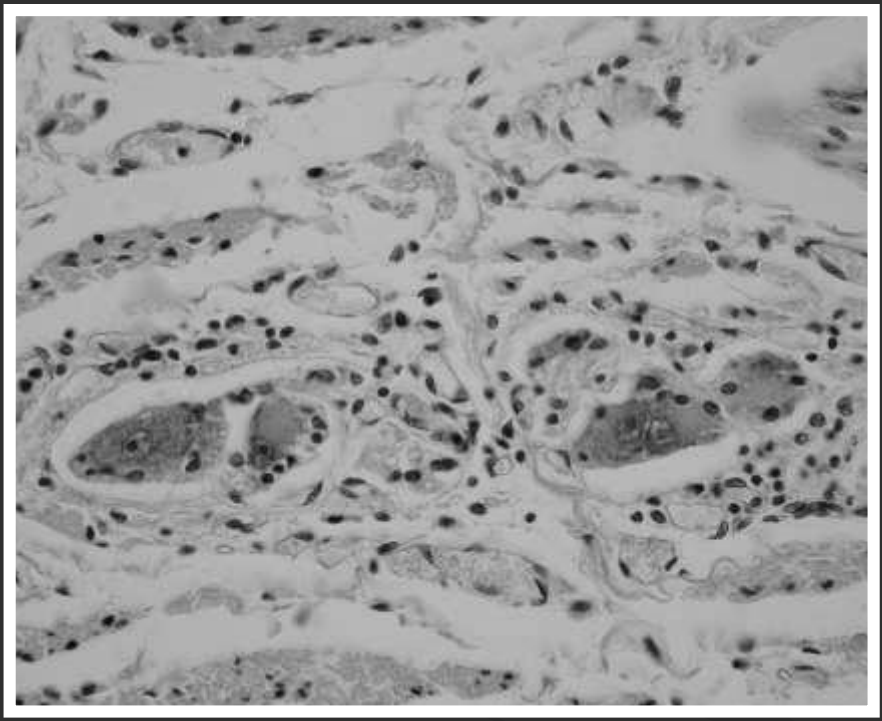


Mixed skeletal and smooth muscle

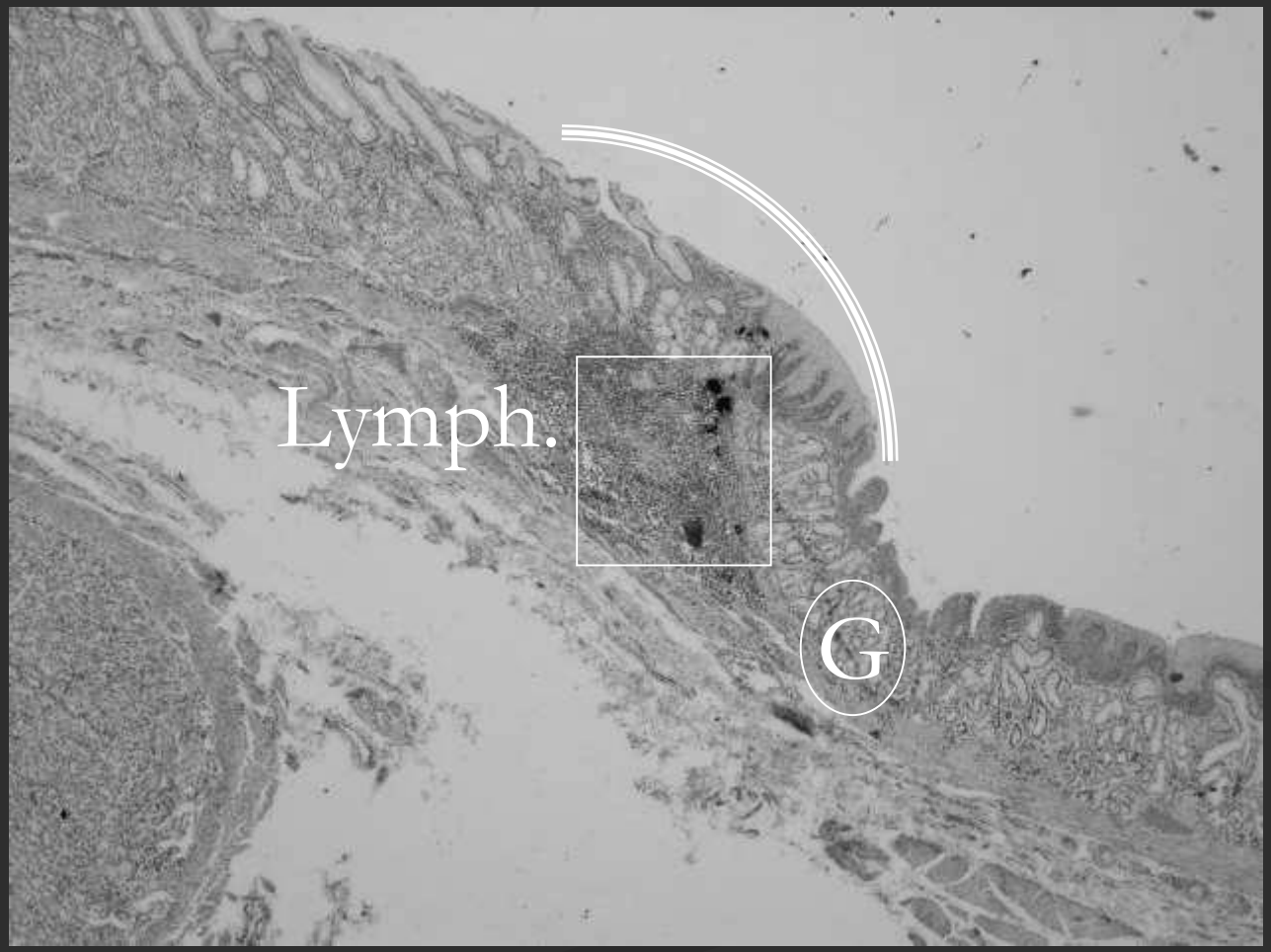


Parasympathetic ganglion-intramural (G.I.T.)



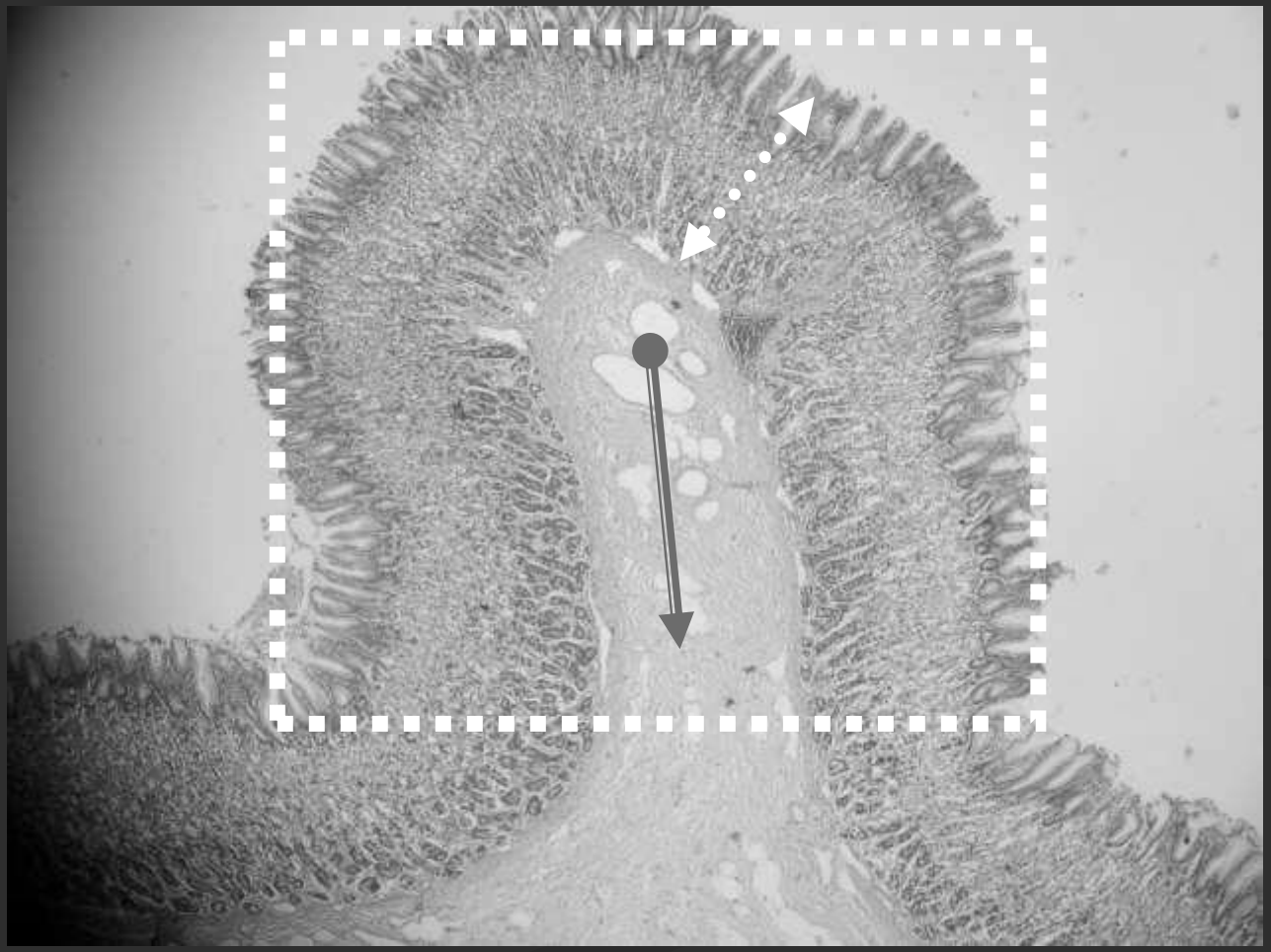


Oesophago-gastric junction

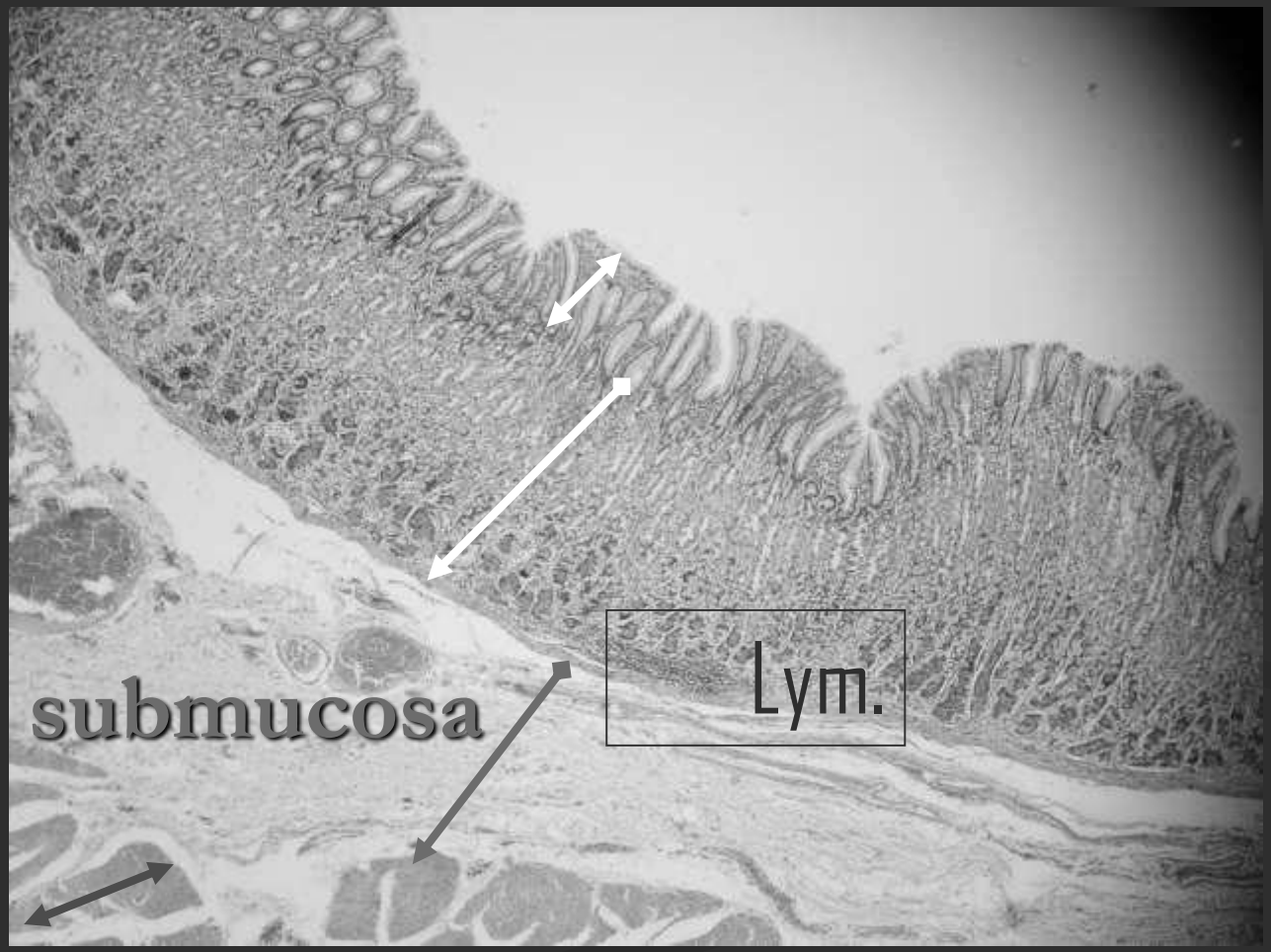

Lymph.
G

Stomach

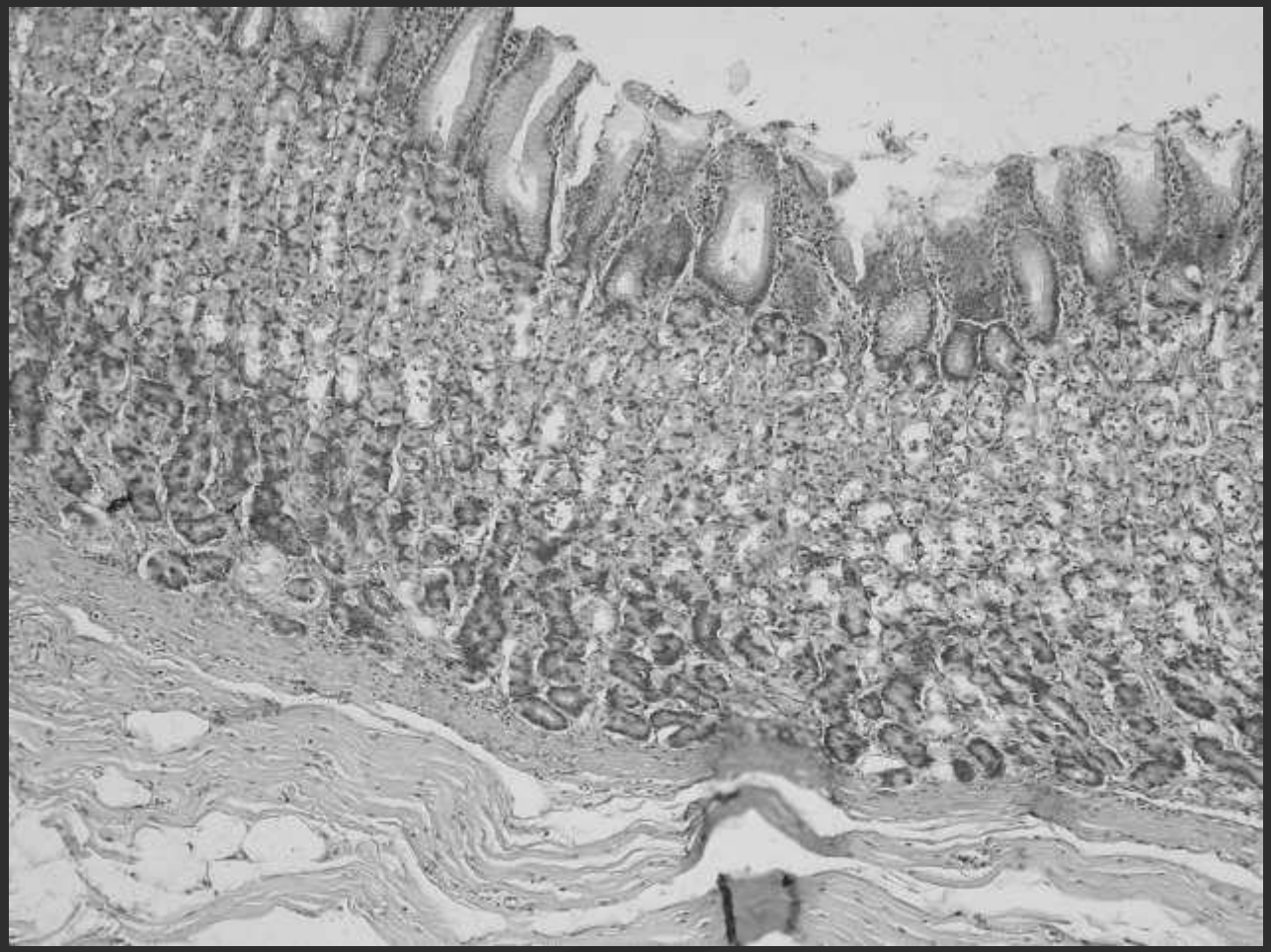
Rugae(stomach):mucosa+submucosa



-mucous membrane: gastric pit+l.p+mus.mucosa

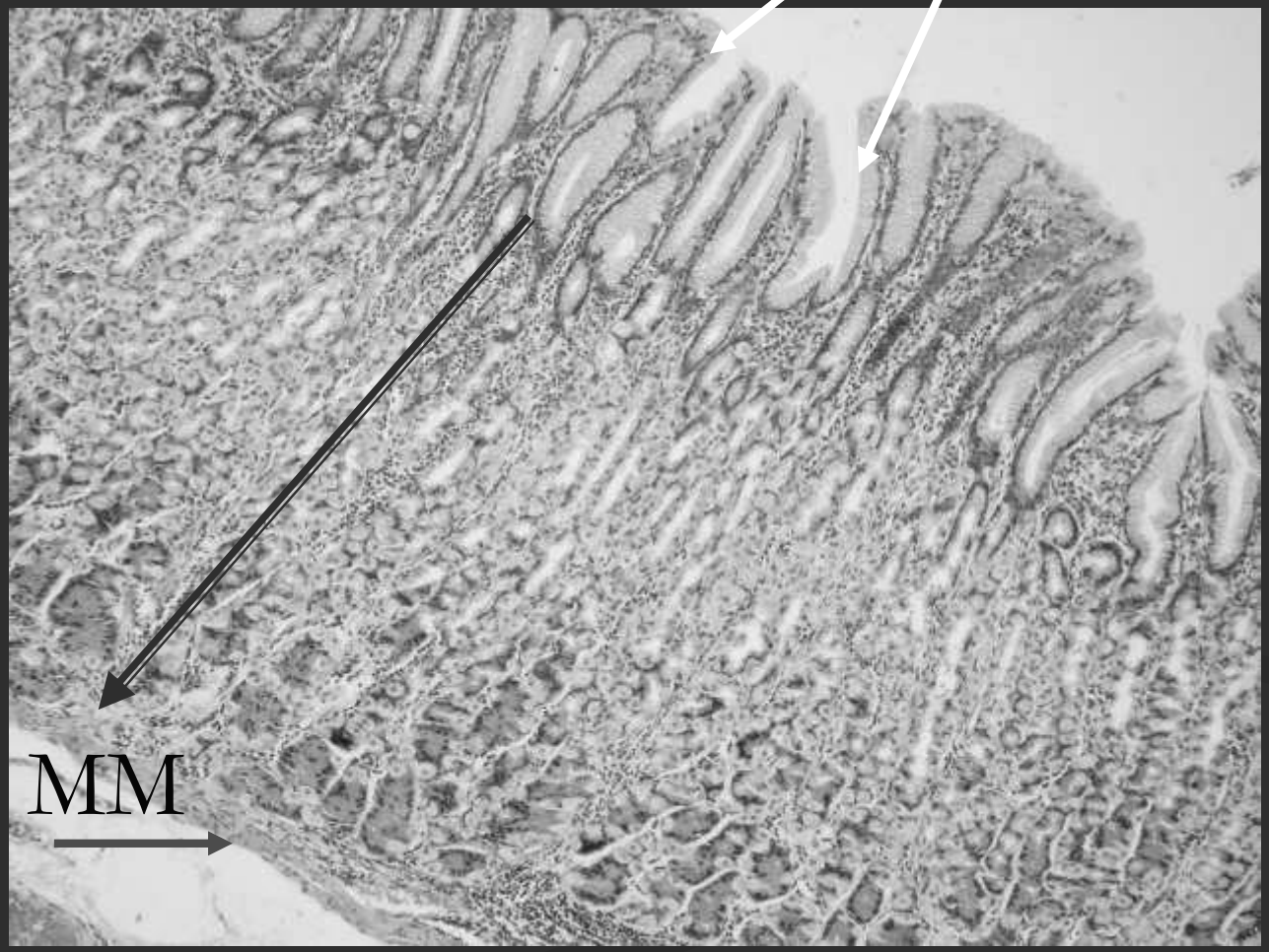


Fundus or body of stomach

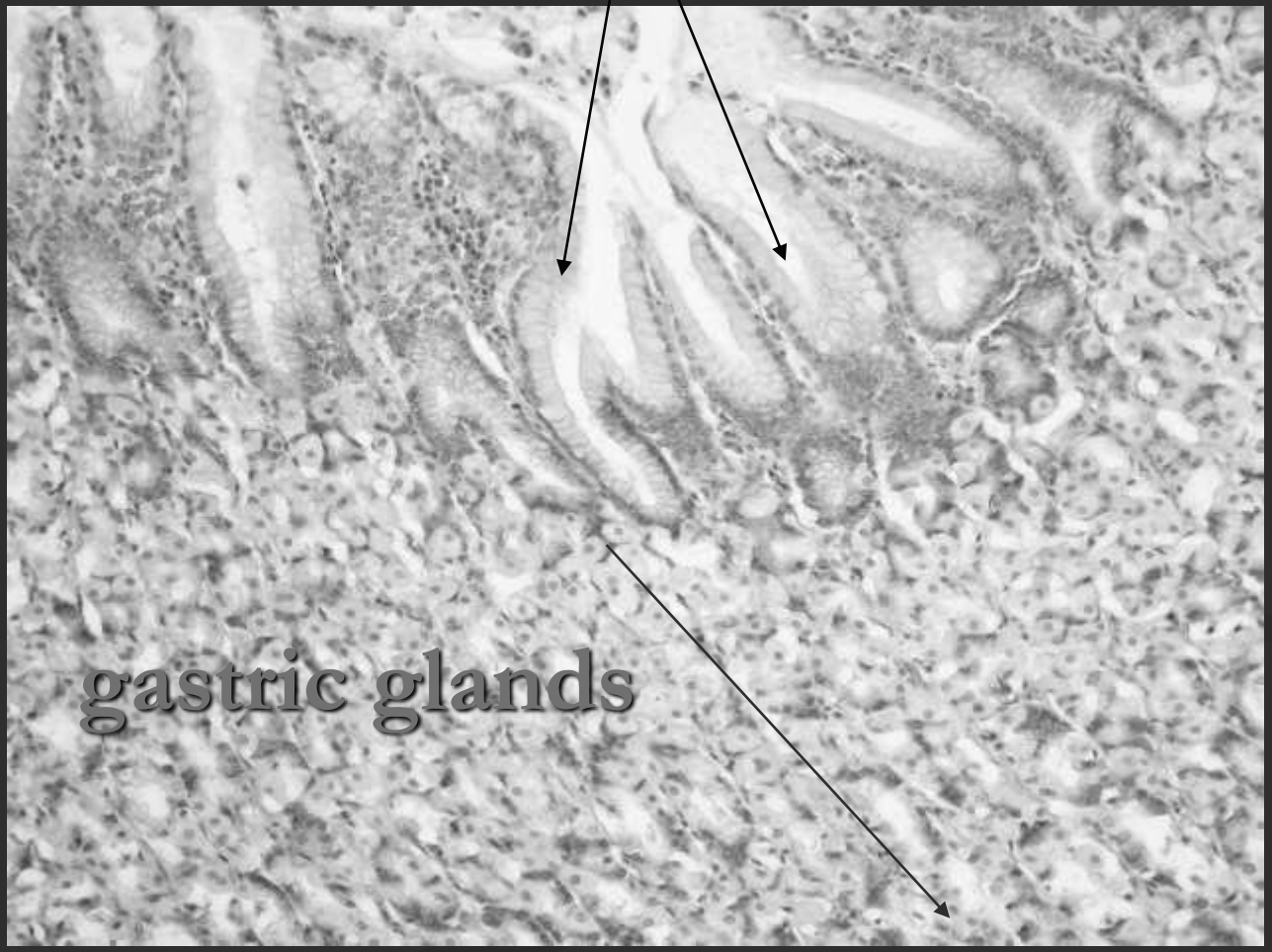


Gastric pit (simple columnar epith.)

gastric glands



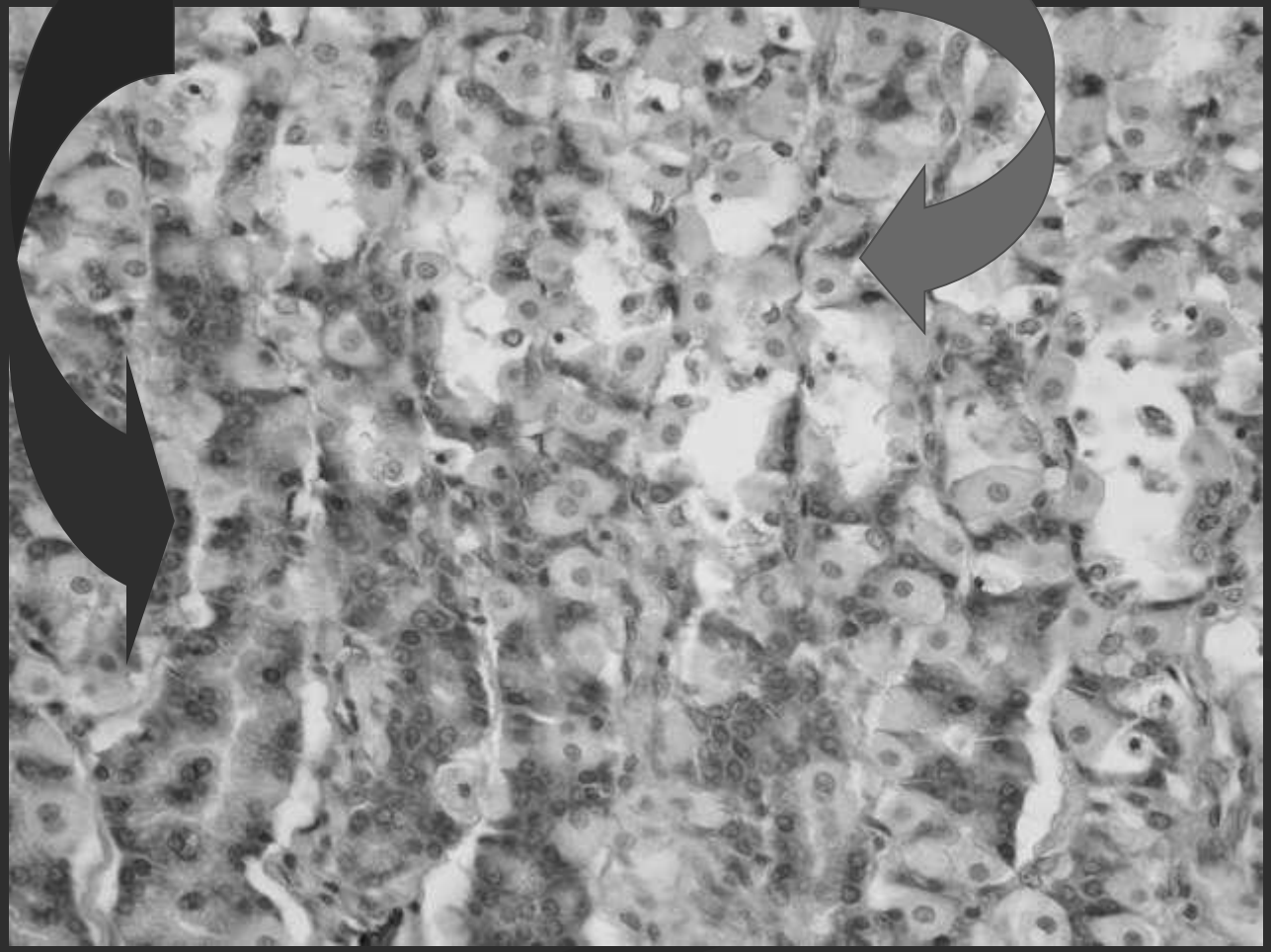
Gastric pit simple branched tubular gland



Mucous_secreting surface cells

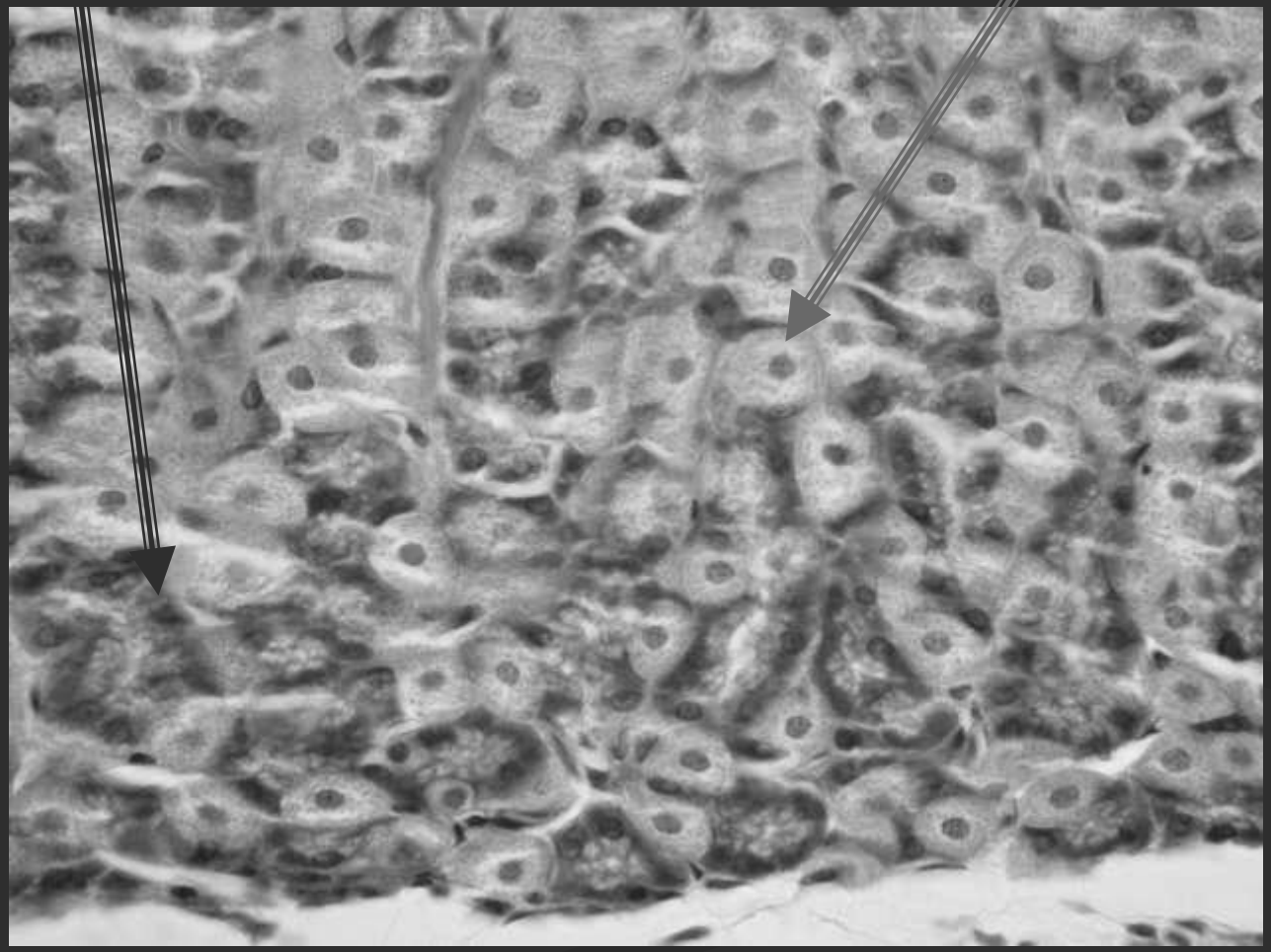
Neck mucous cells

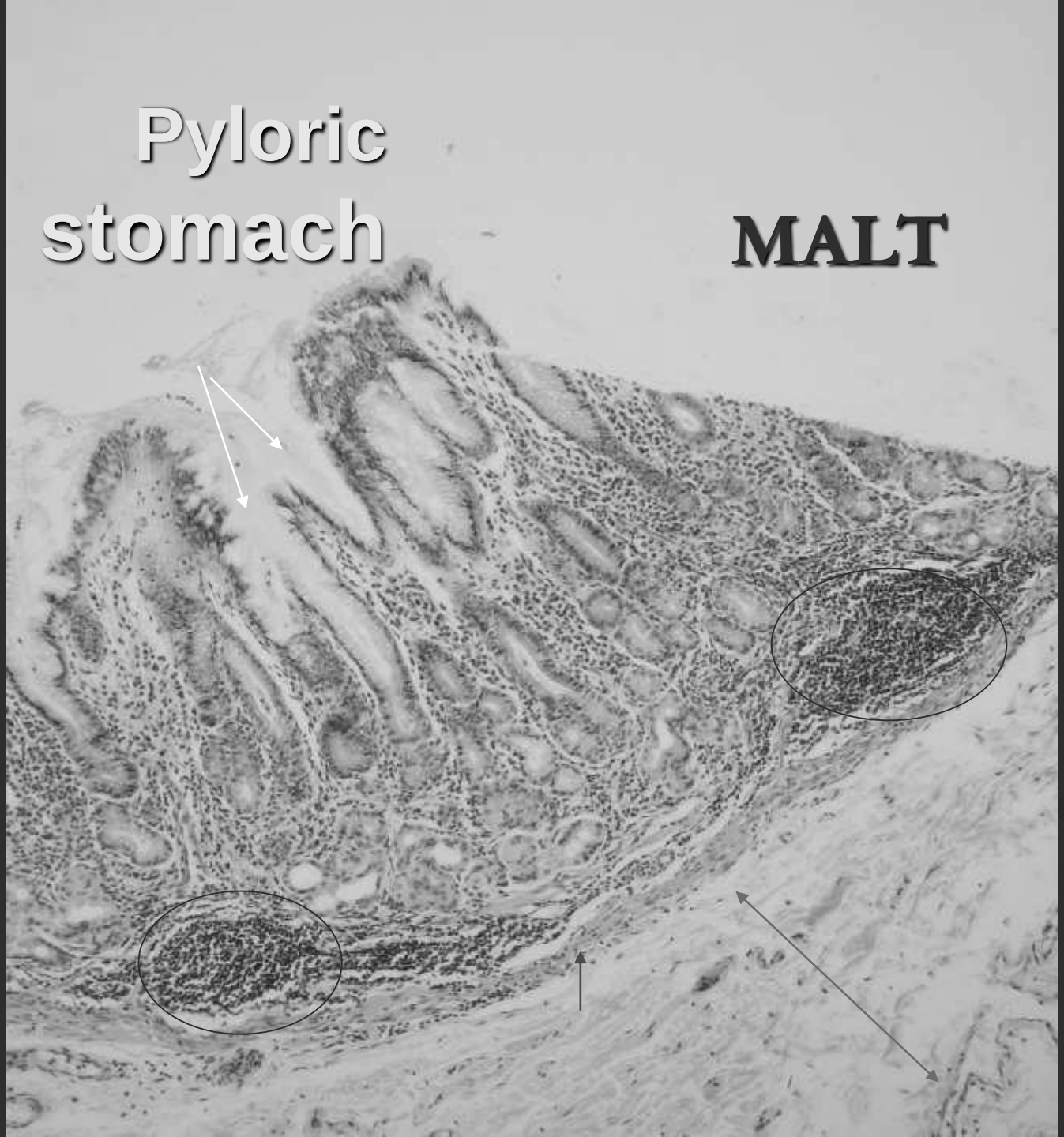
Chief cells parietal cell



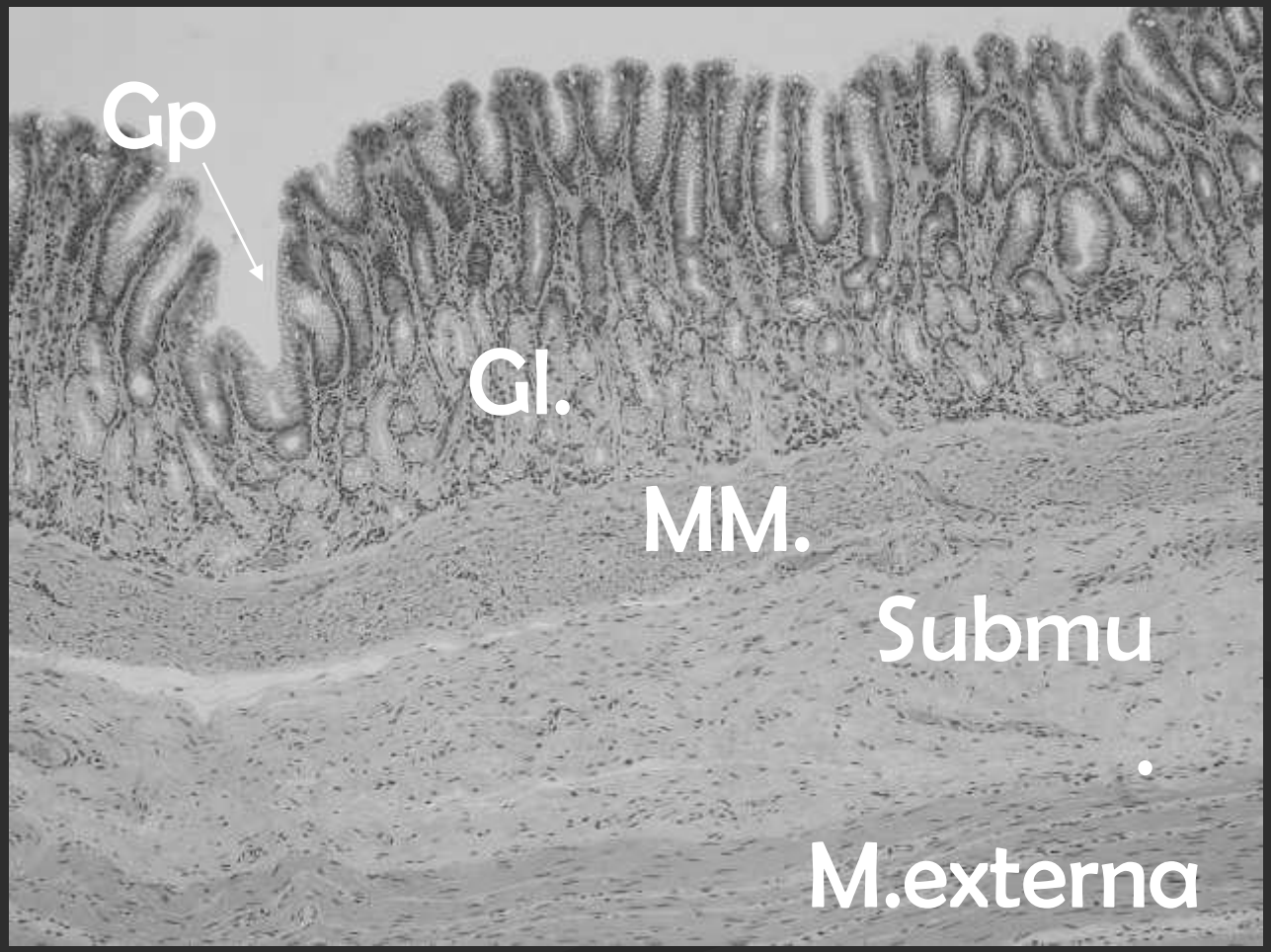
Chief cells

parietal cell

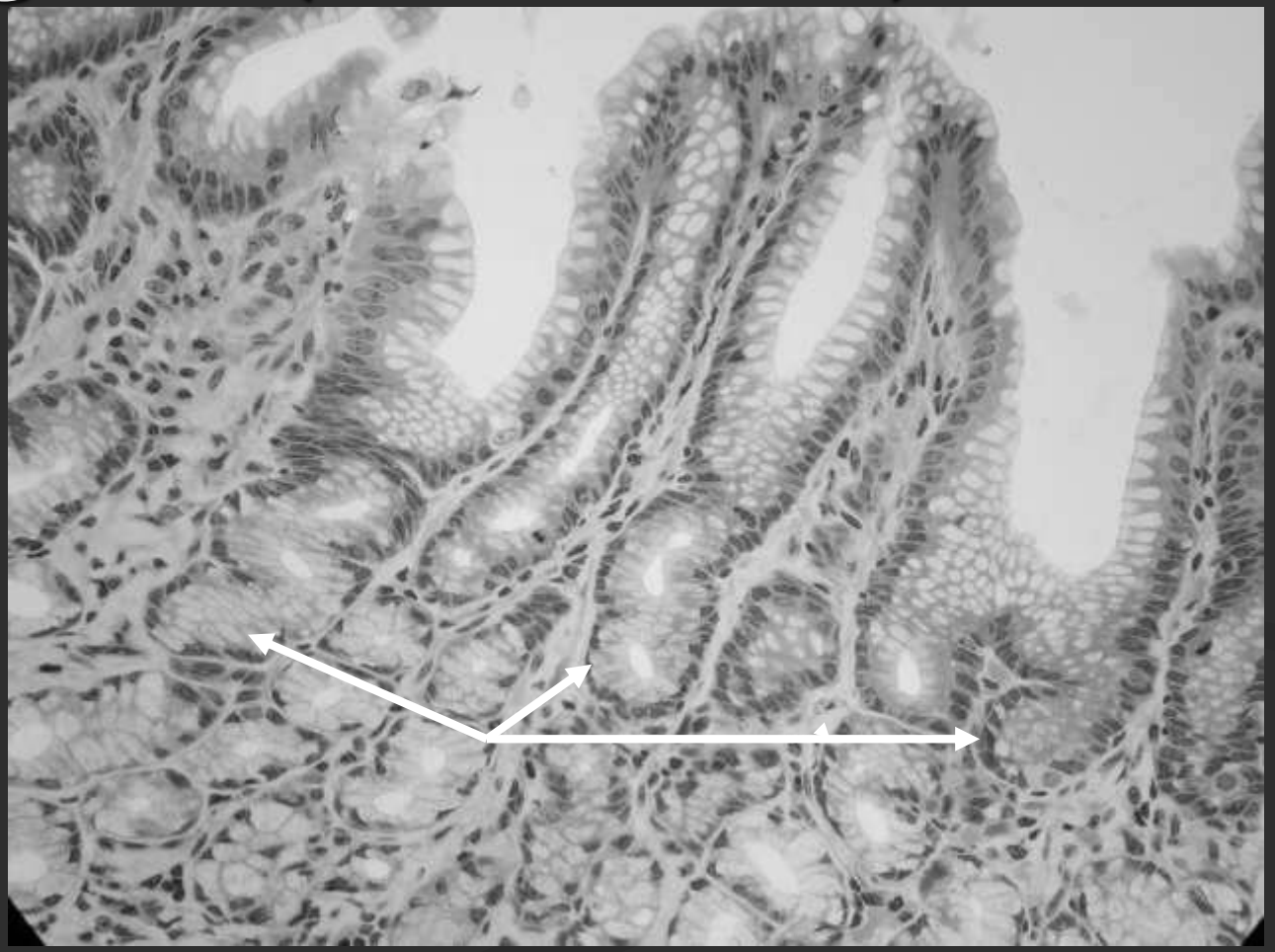



Pyloric stomach
MALT

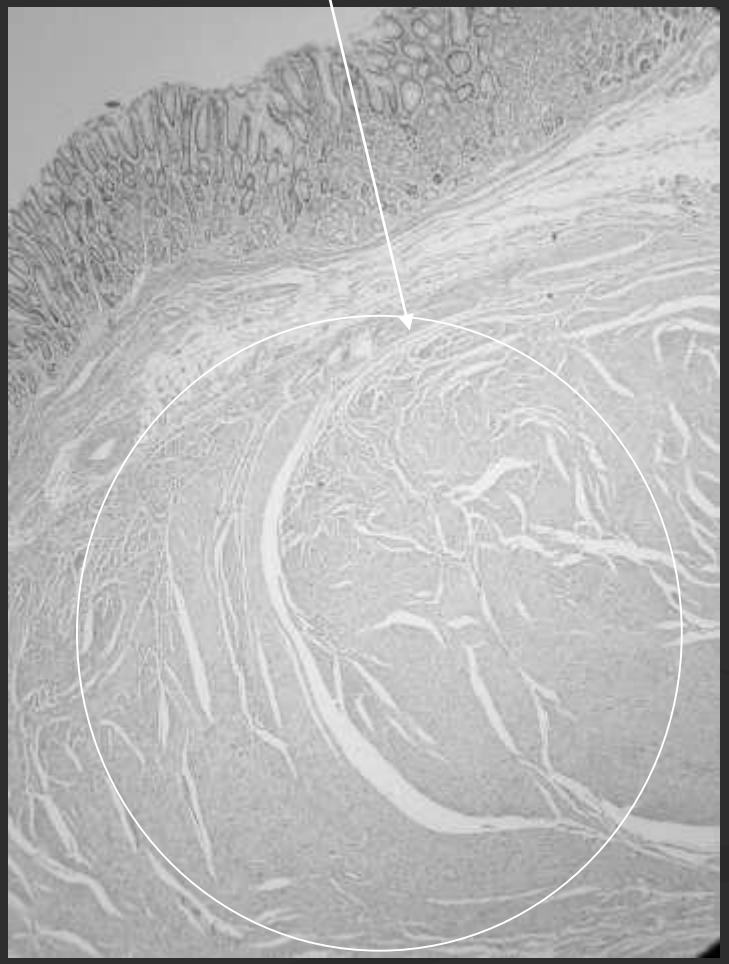
Pyloric stomach



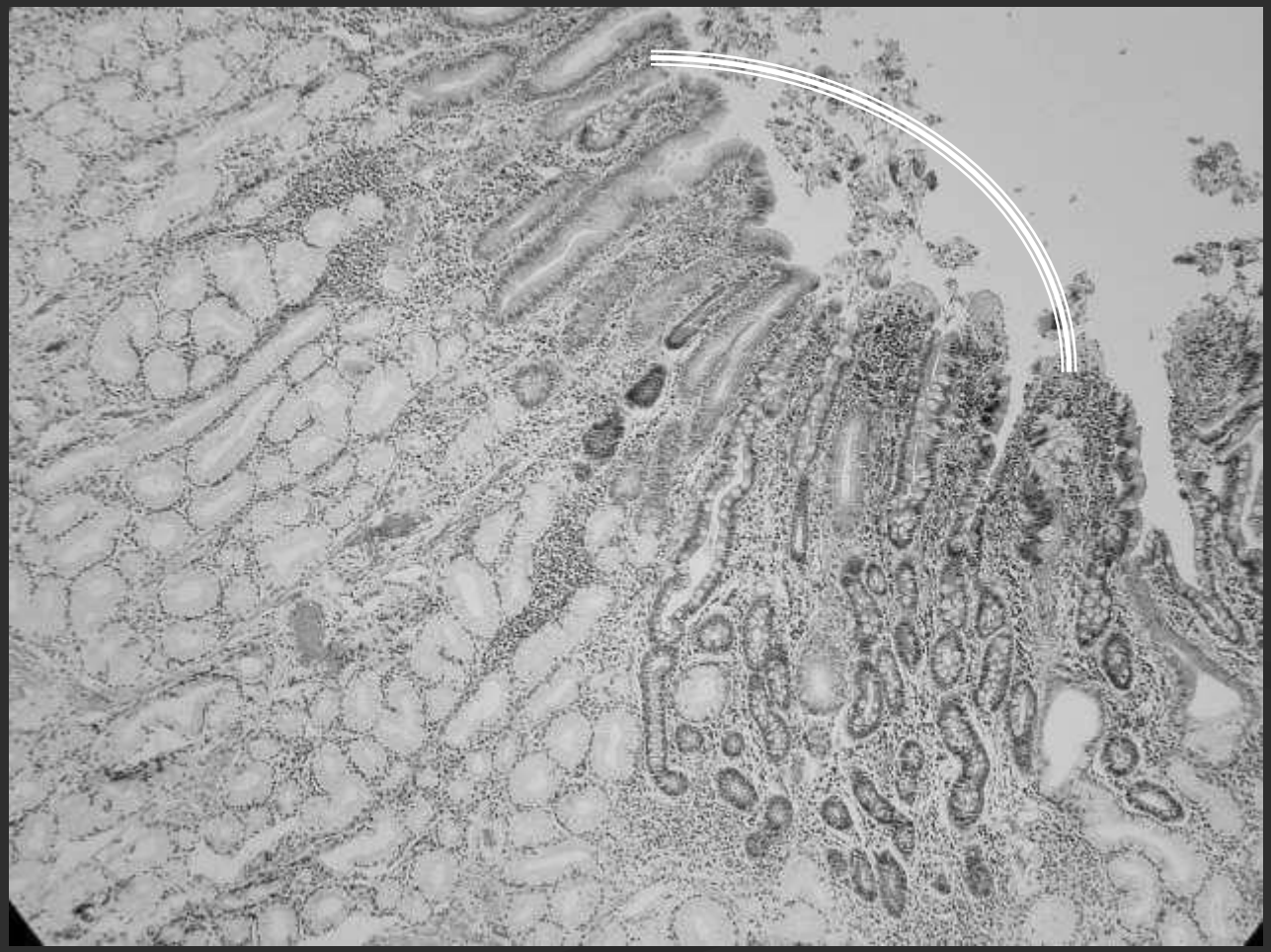
Pyloric glands simple branched tubular coiled glands(mucous cells)



Sphinctor pyloric

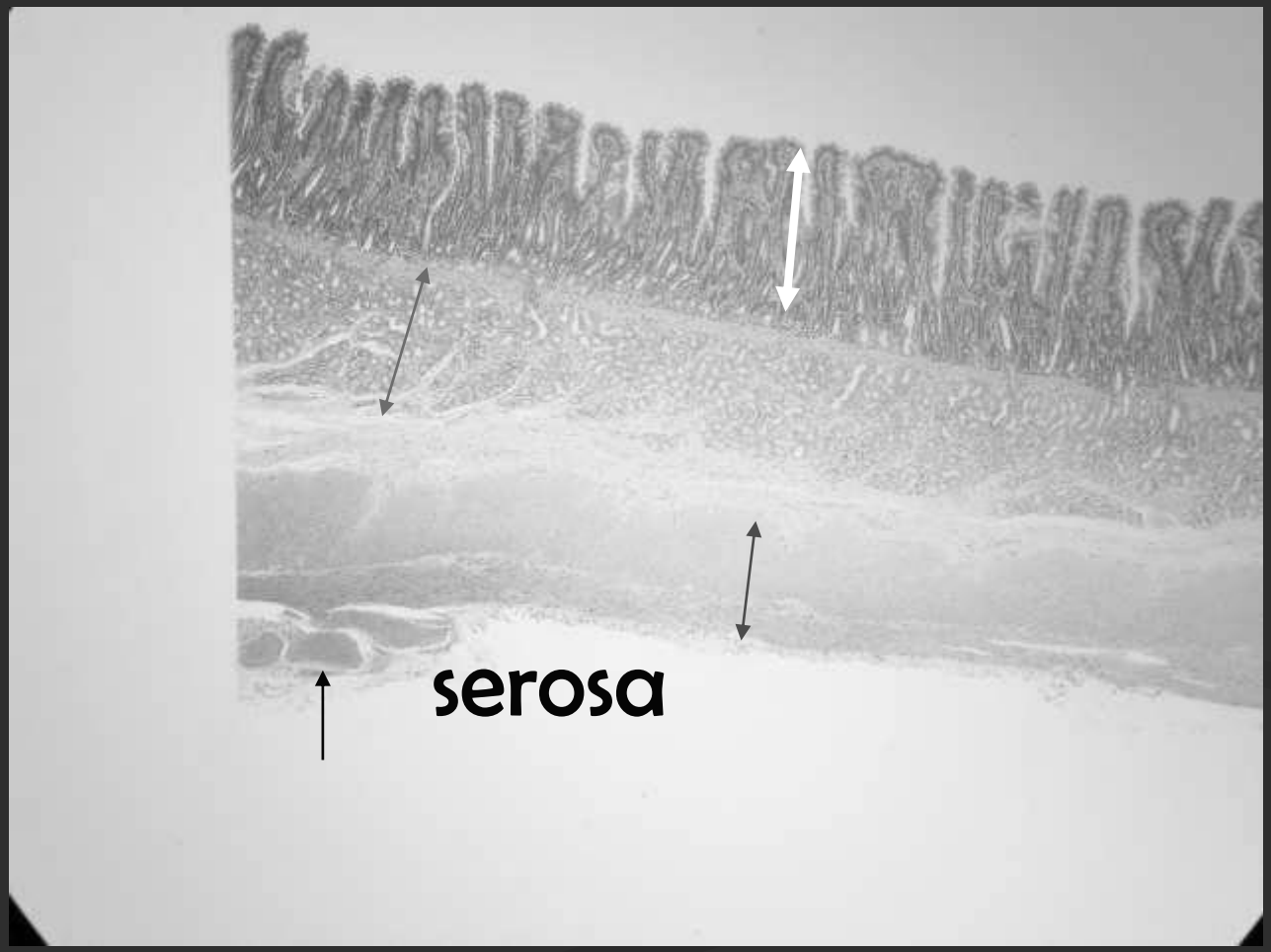


Pyloric- duodenal junction

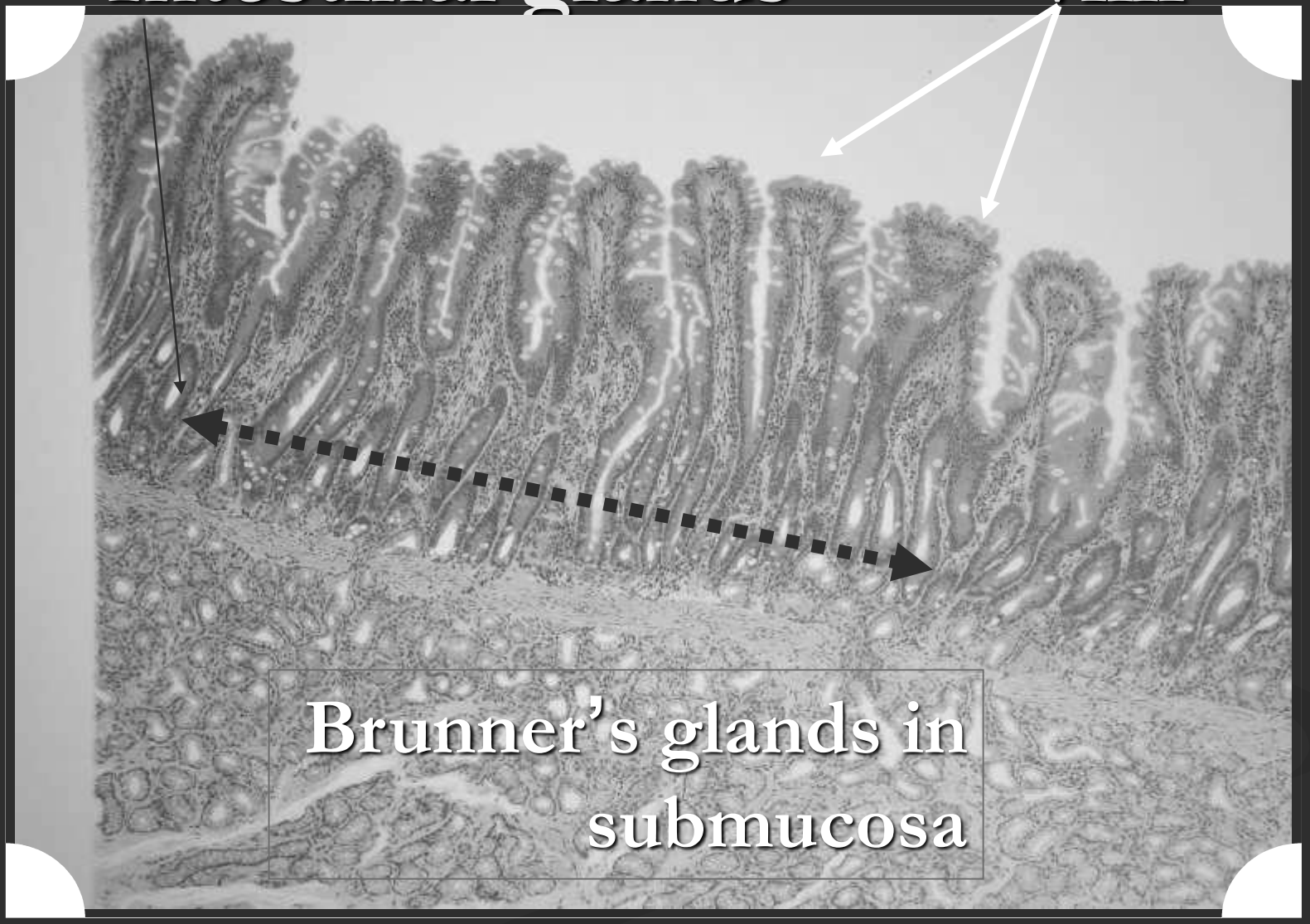


Small intestine

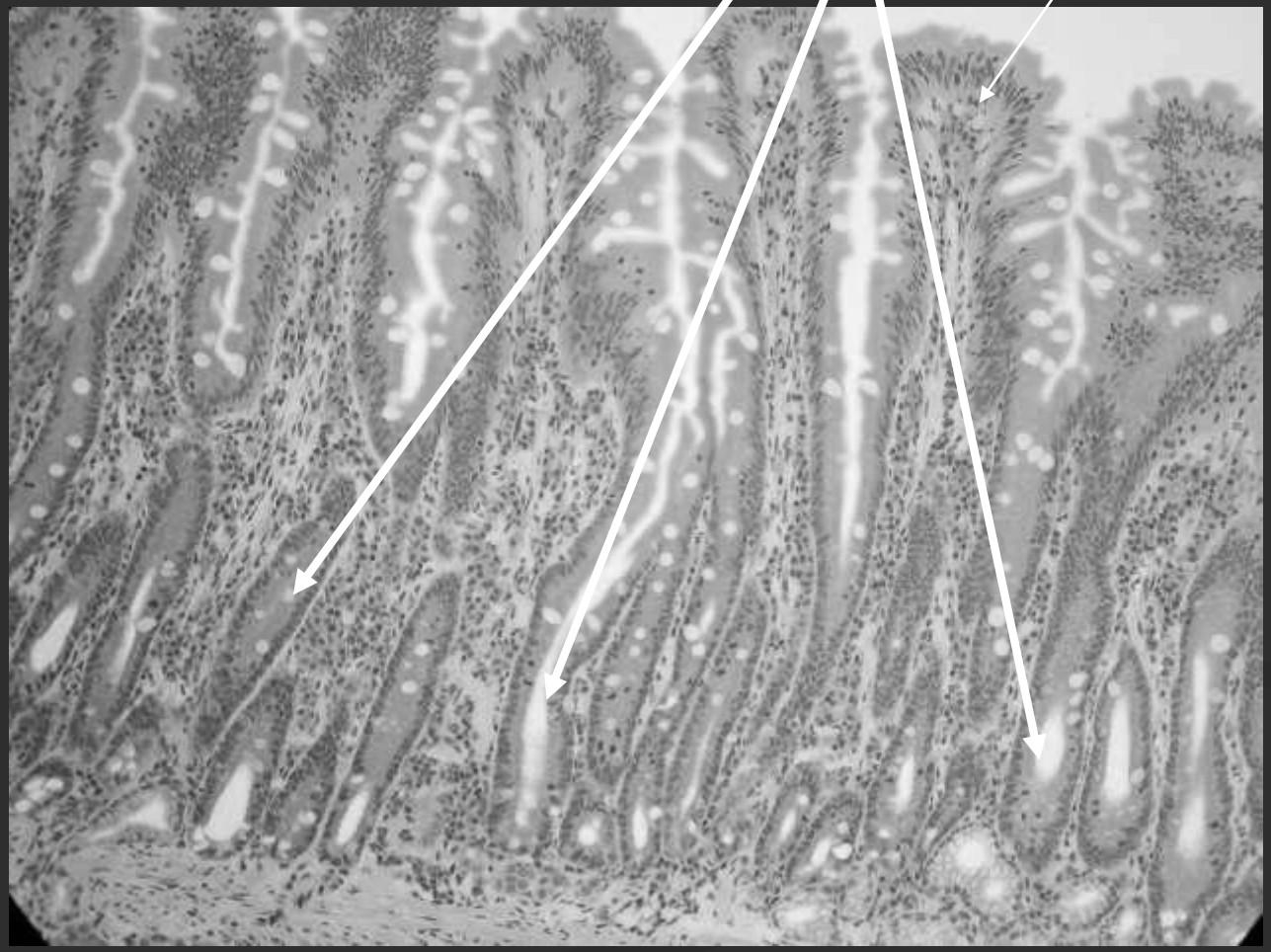
Duodenum

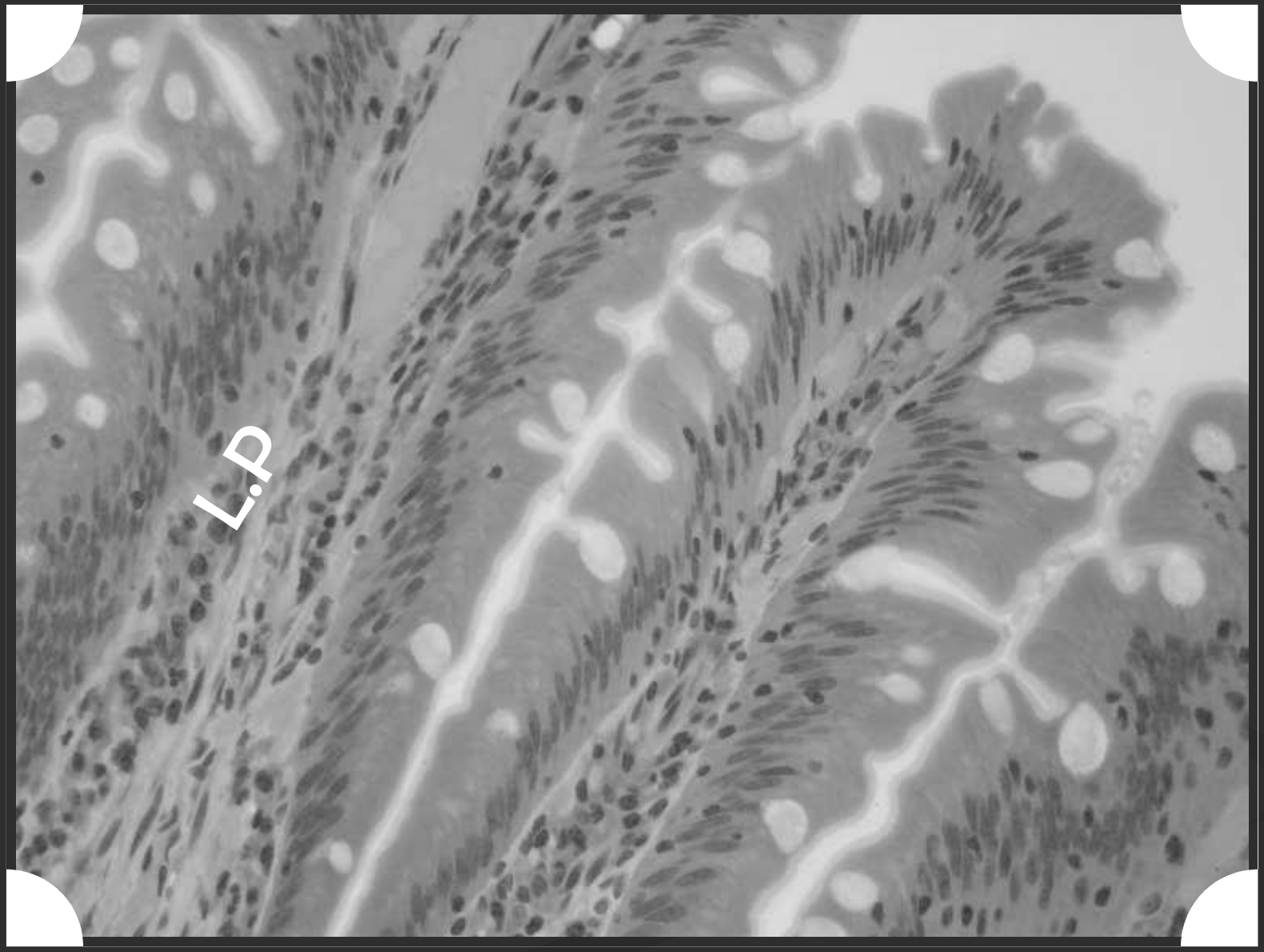


Intestinal glands villi

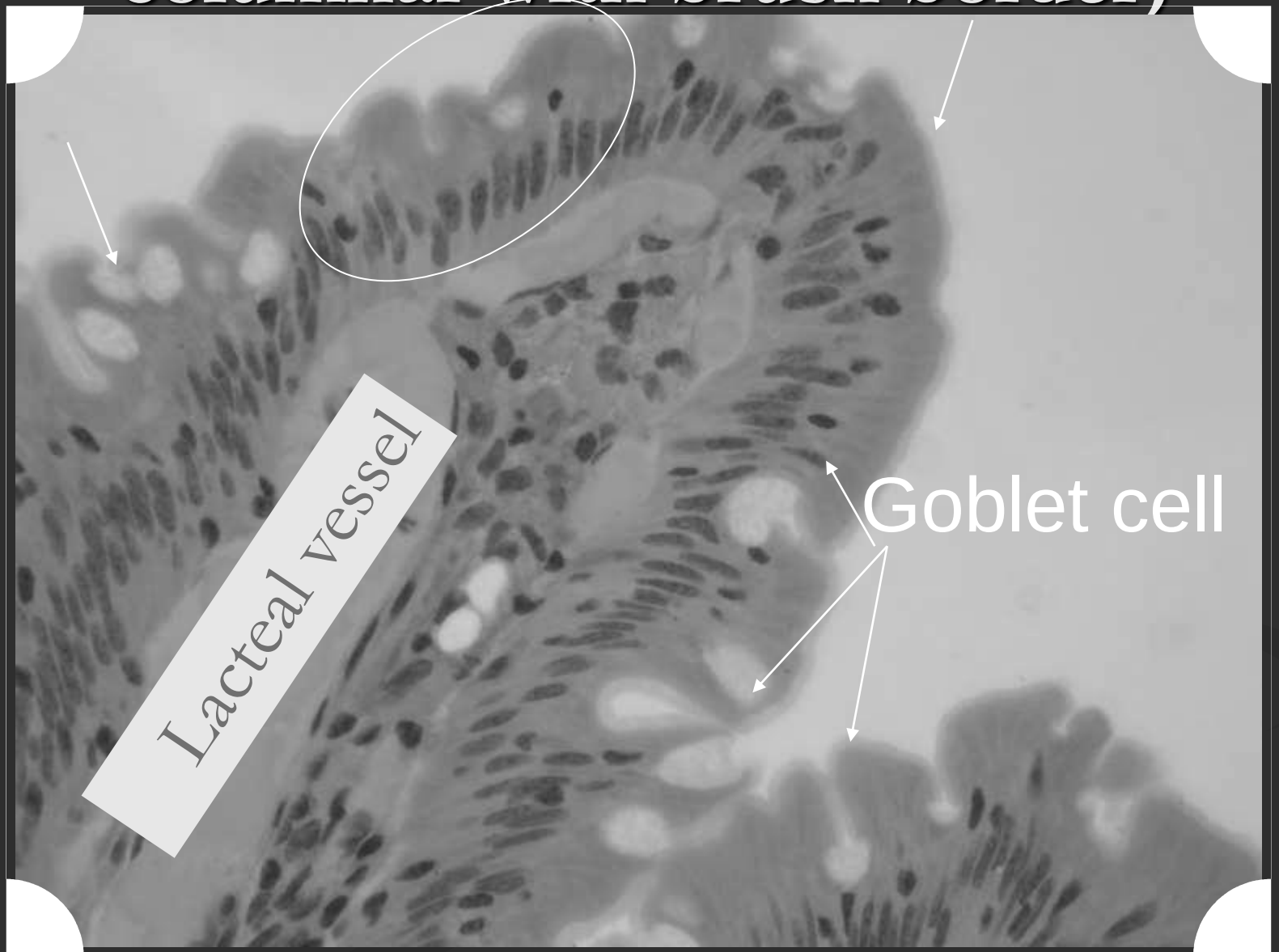


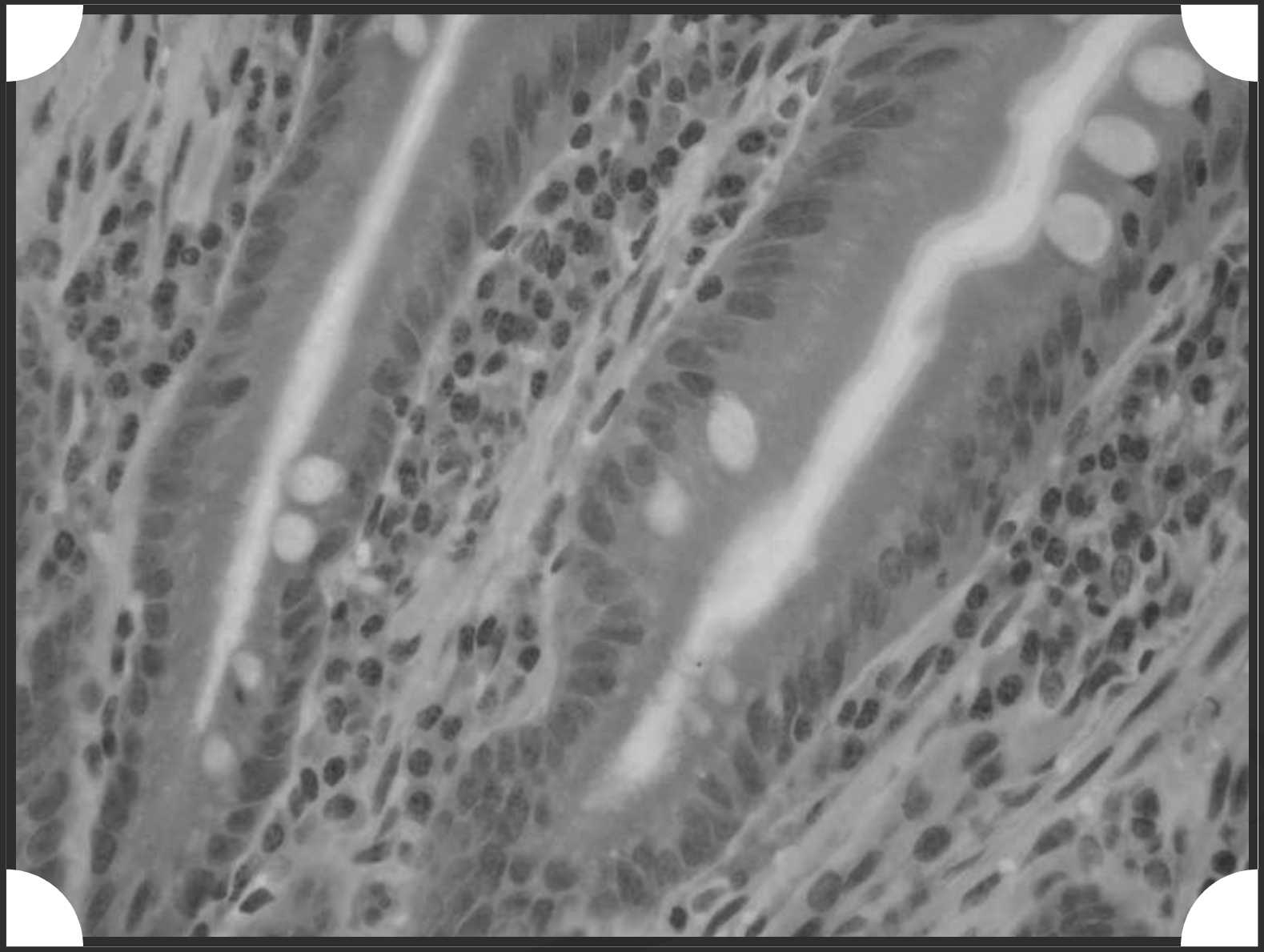
Crypt of Lieberkuhn villus

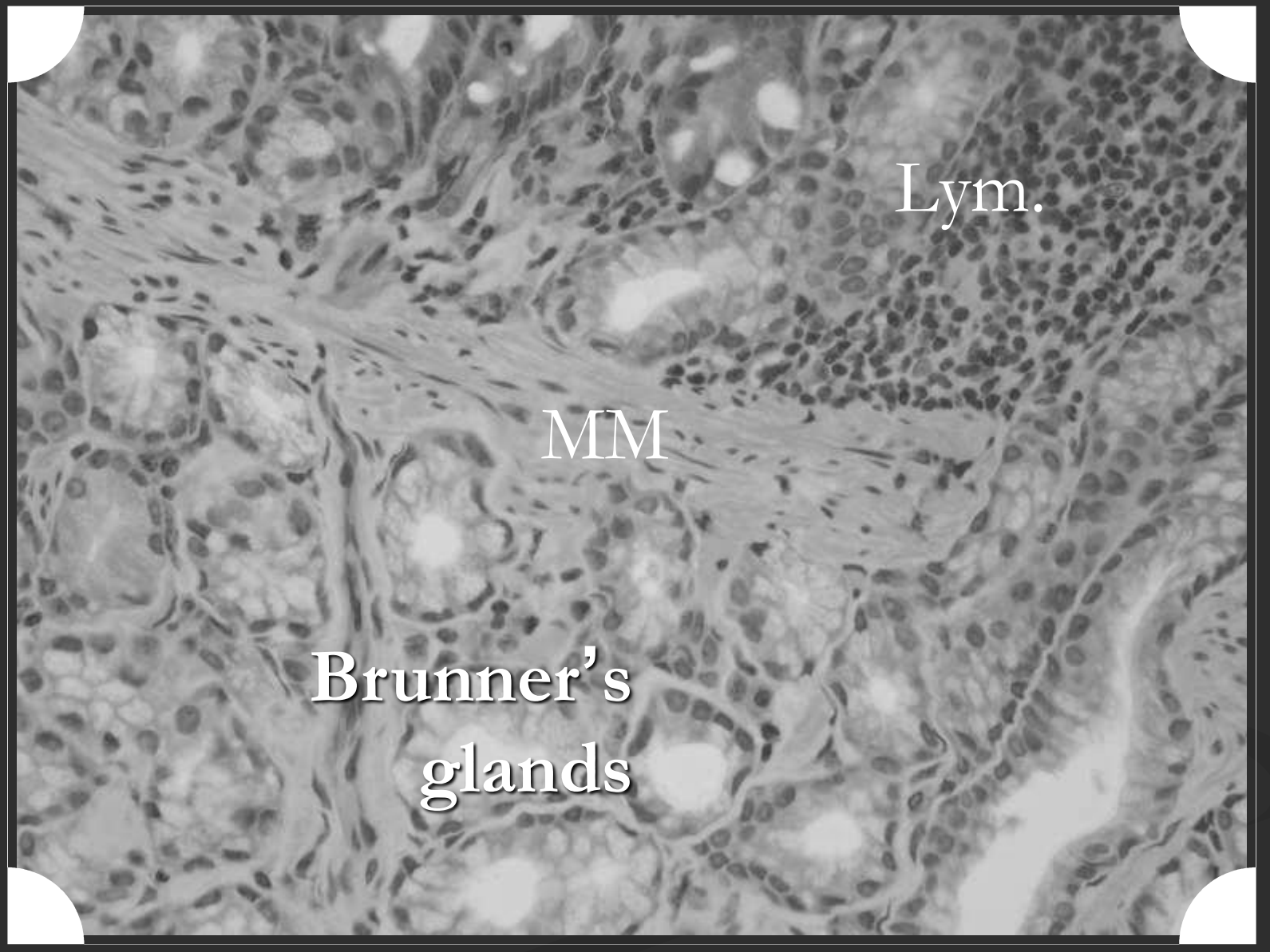



L.P

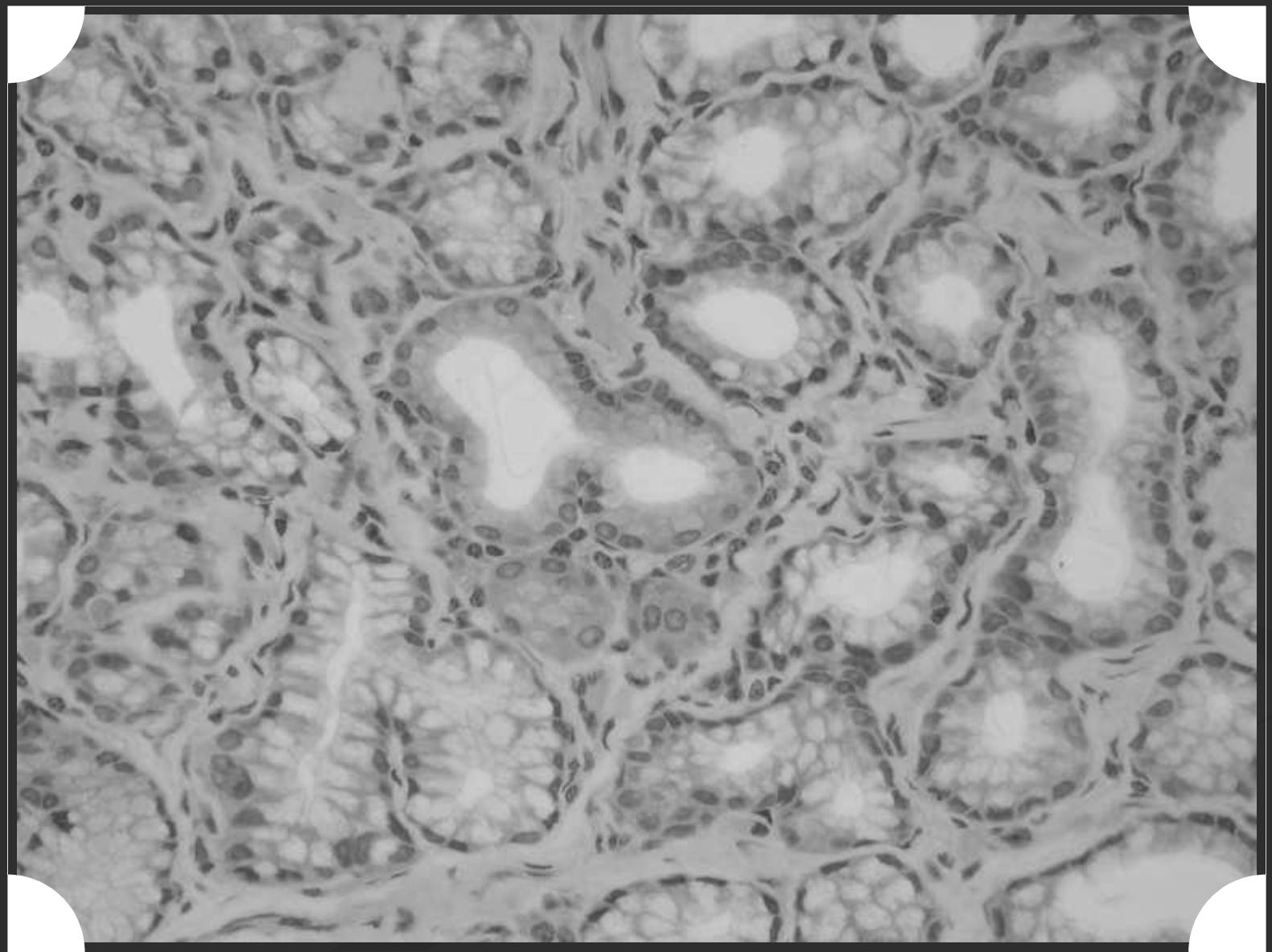
Surface absorbtive cells(simple columnar with brush border)

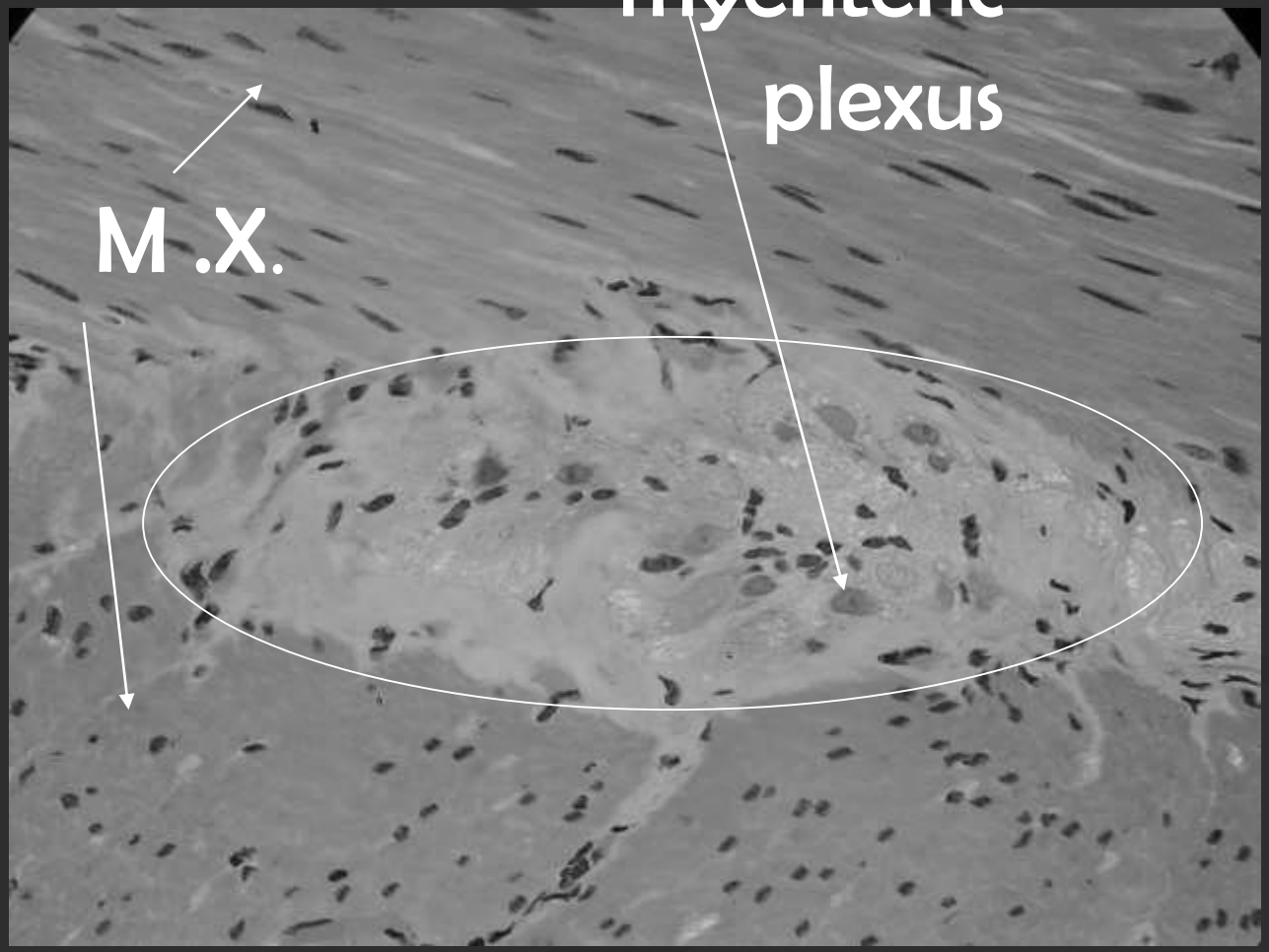





Lym.
MM
Brunner's glands

Simple branch tubular gl.=mucous




Auerbach's
myenteric
plexus
M .X.

Plicae circularies in **jejunum**

villi

Plica circularis

Crypt= intestinal gland

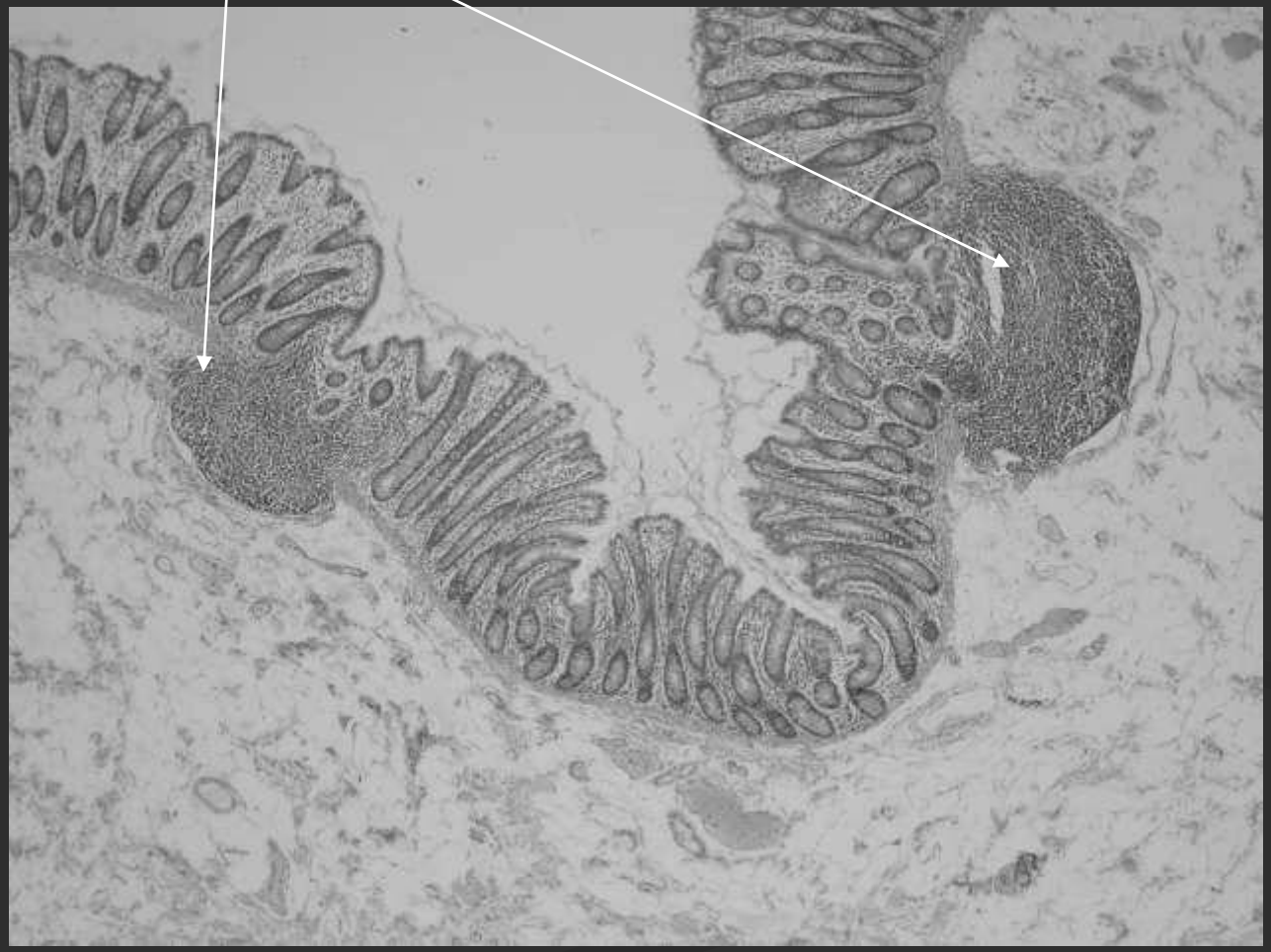
Paneth cell of intestinal gland

Ileum

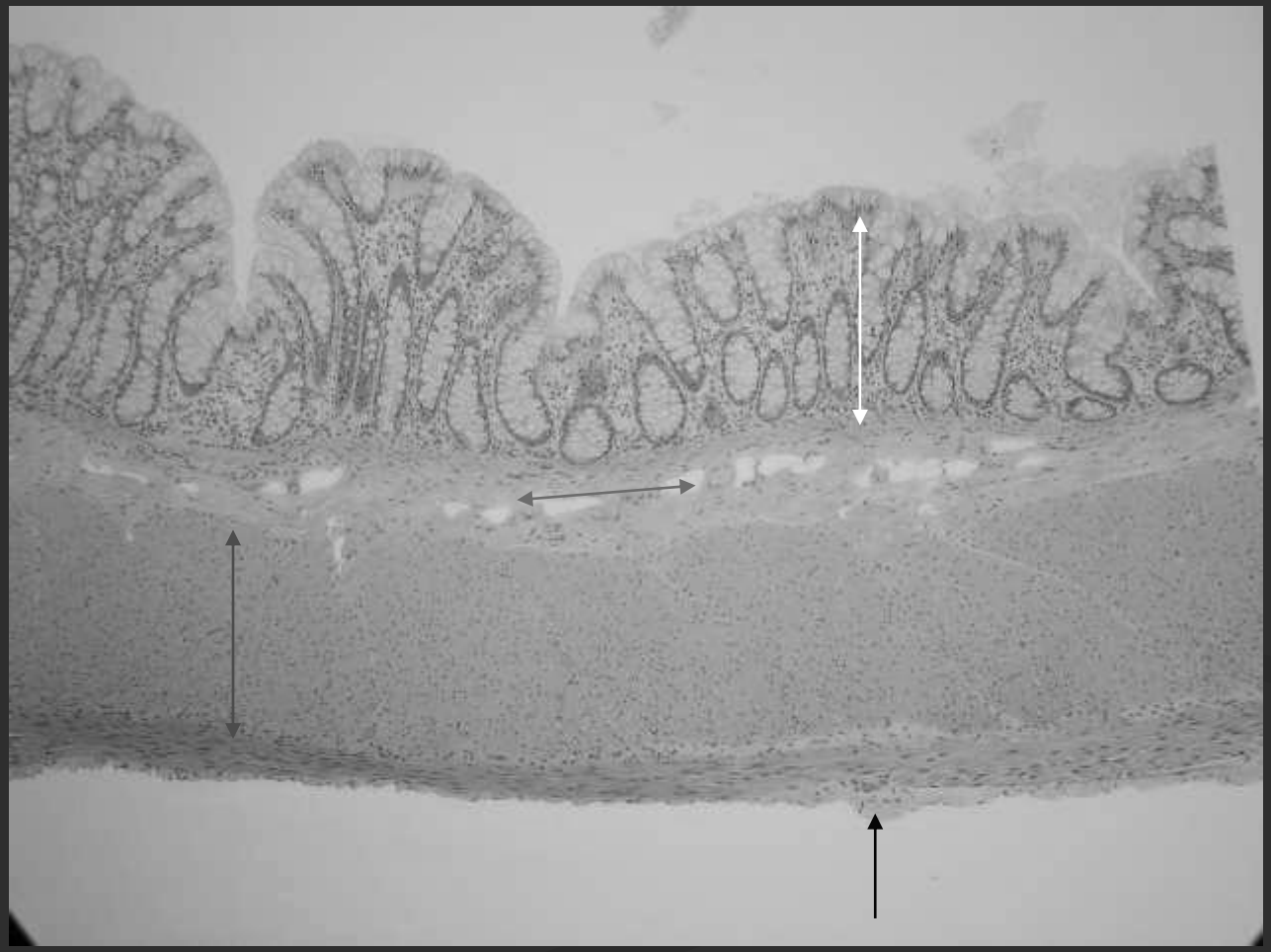
Peyer's patches

Large intestine

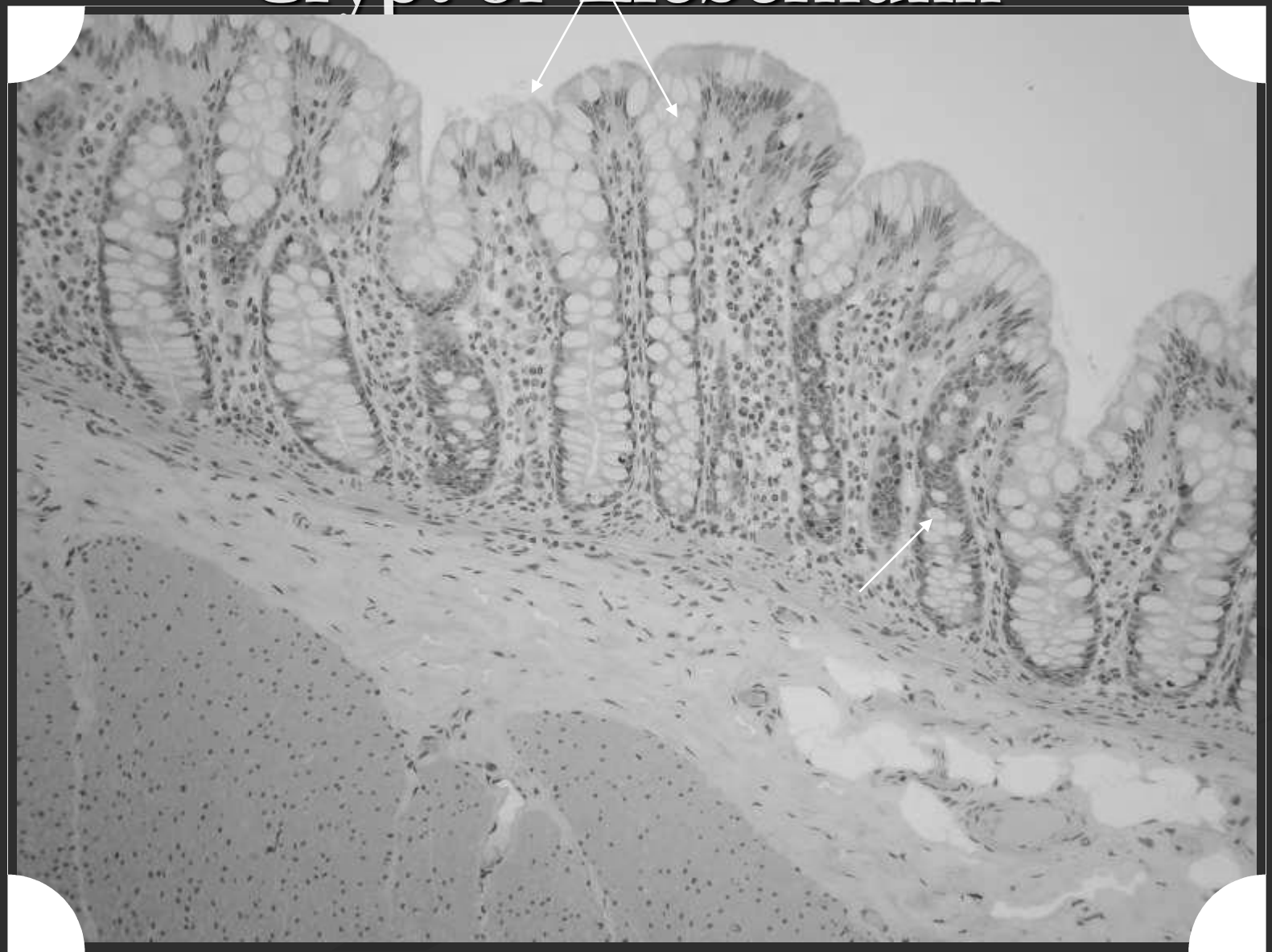
solitery nodule in colon



colon

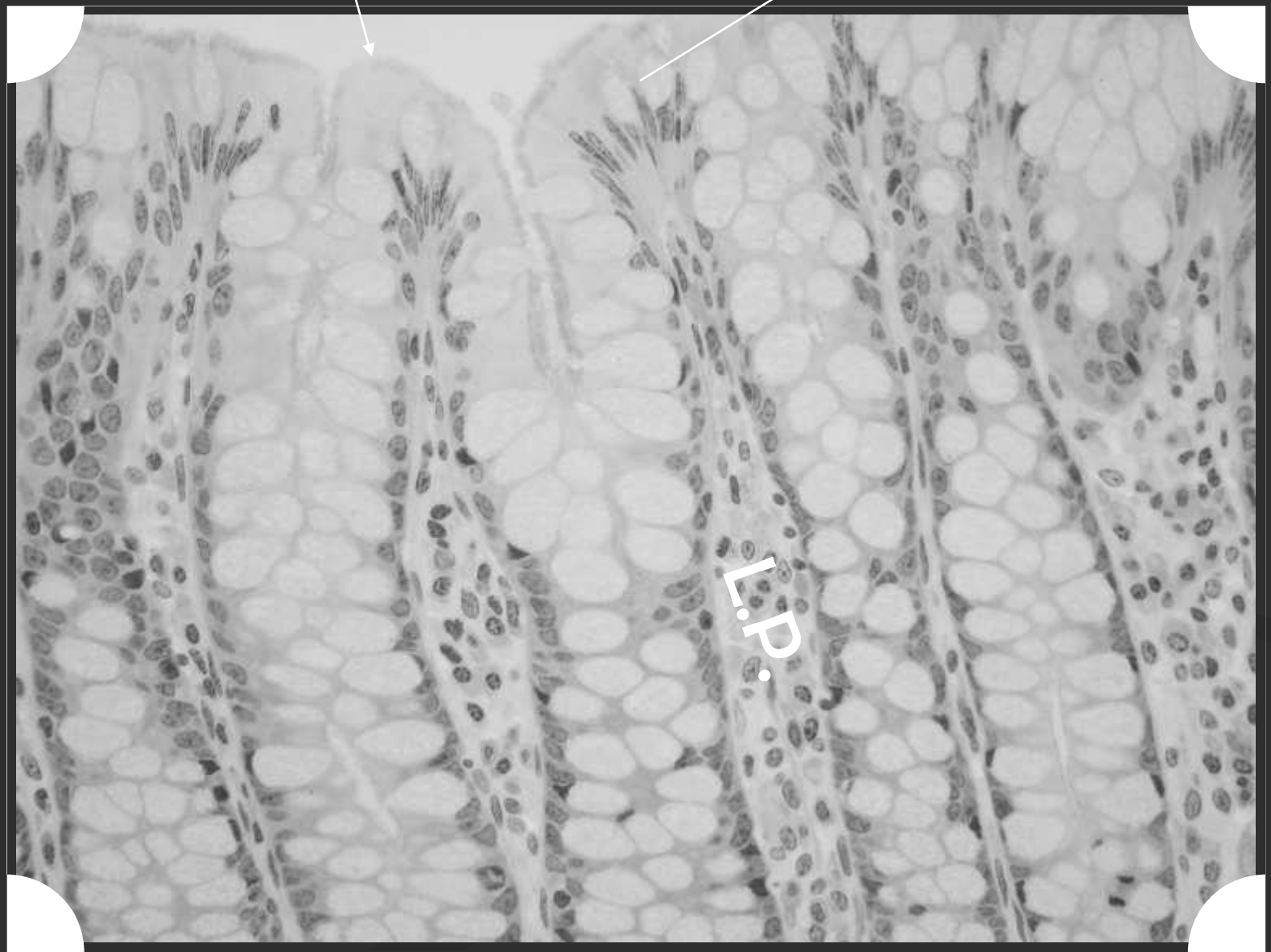


Simple tubular gland in colon
Crypt of Lieberkuhn=



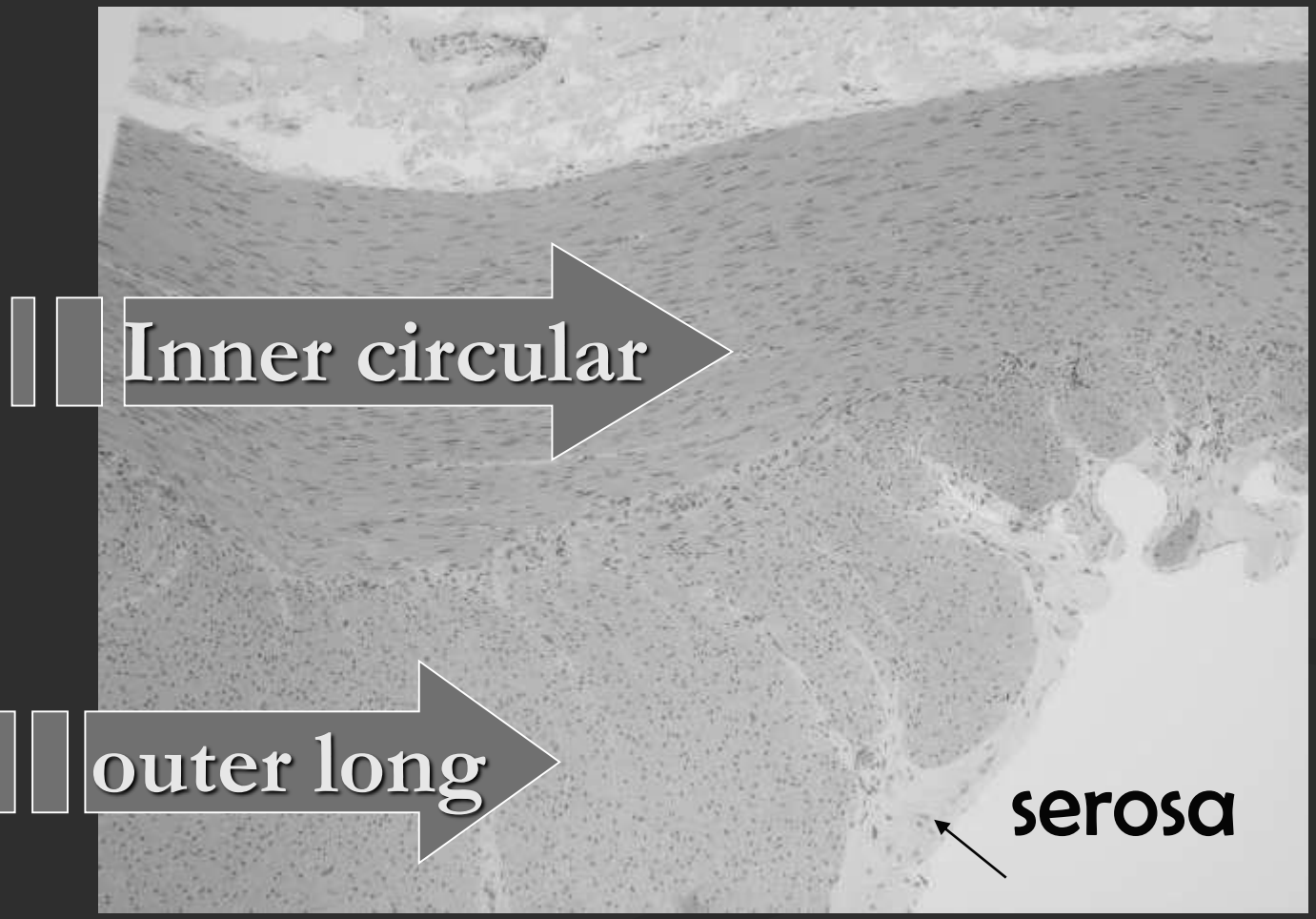
surface cell

Goblet cells



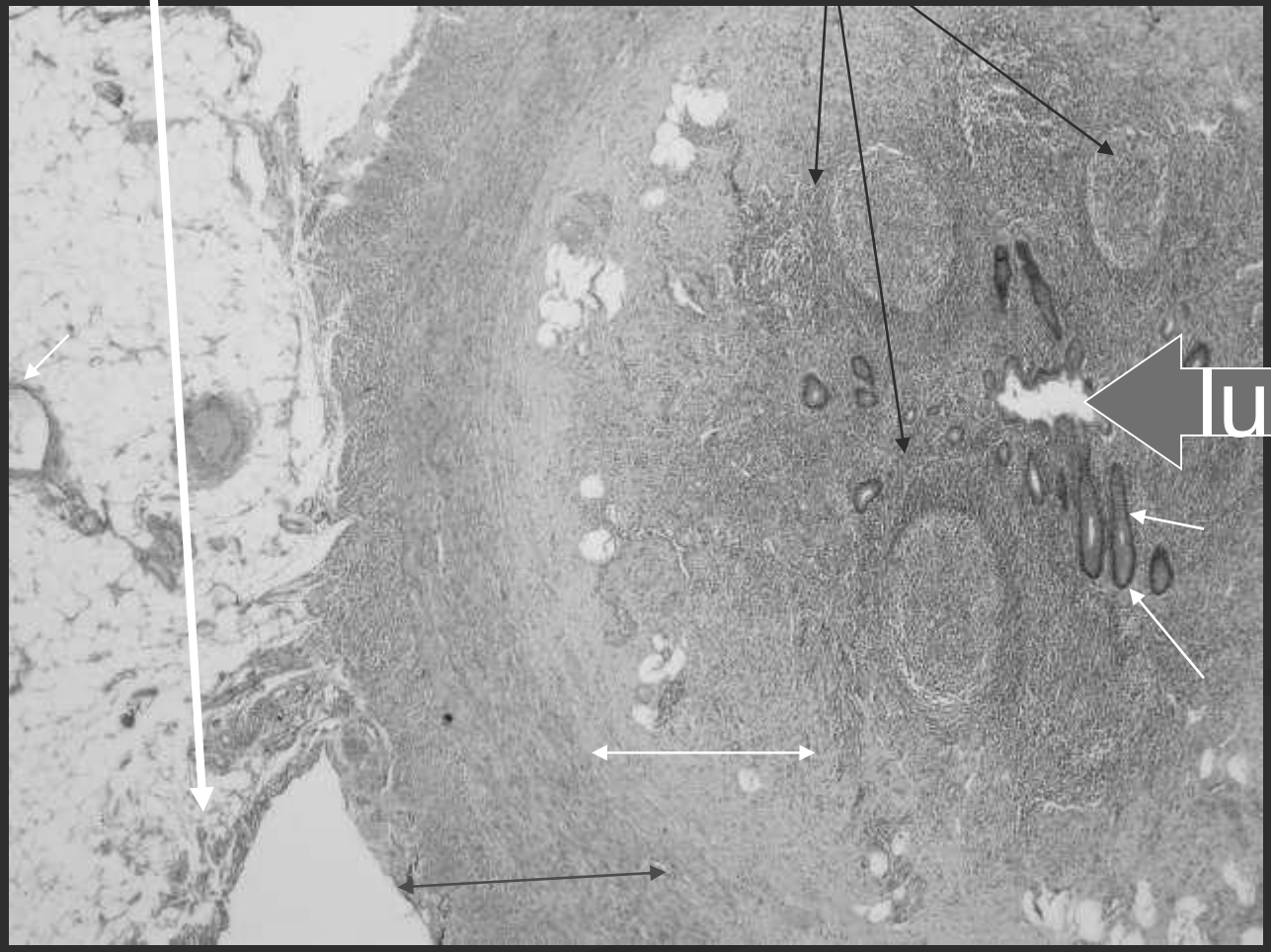
Taeniae coli

Inner circular outer long smooth muscle.

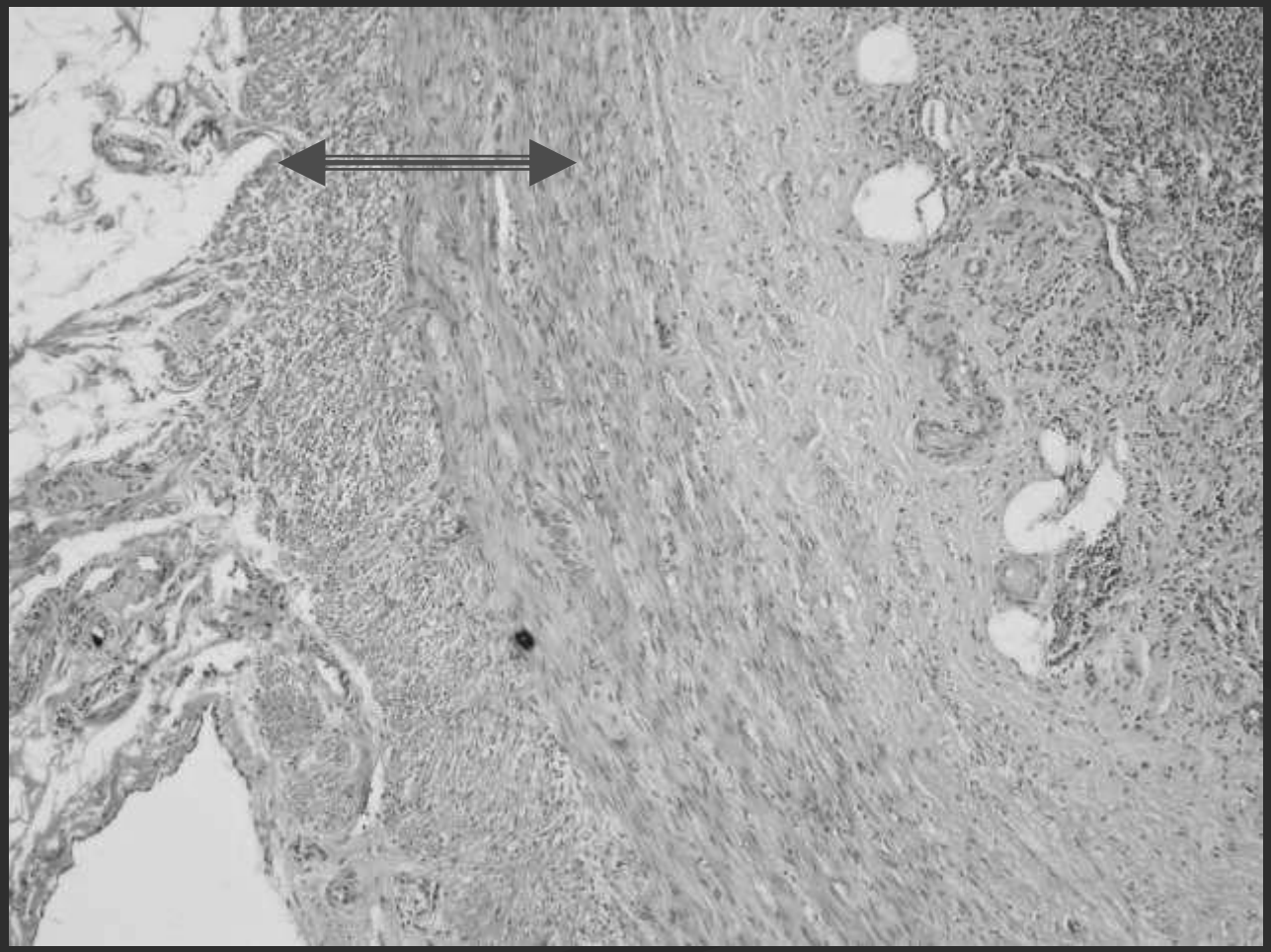


Appendix

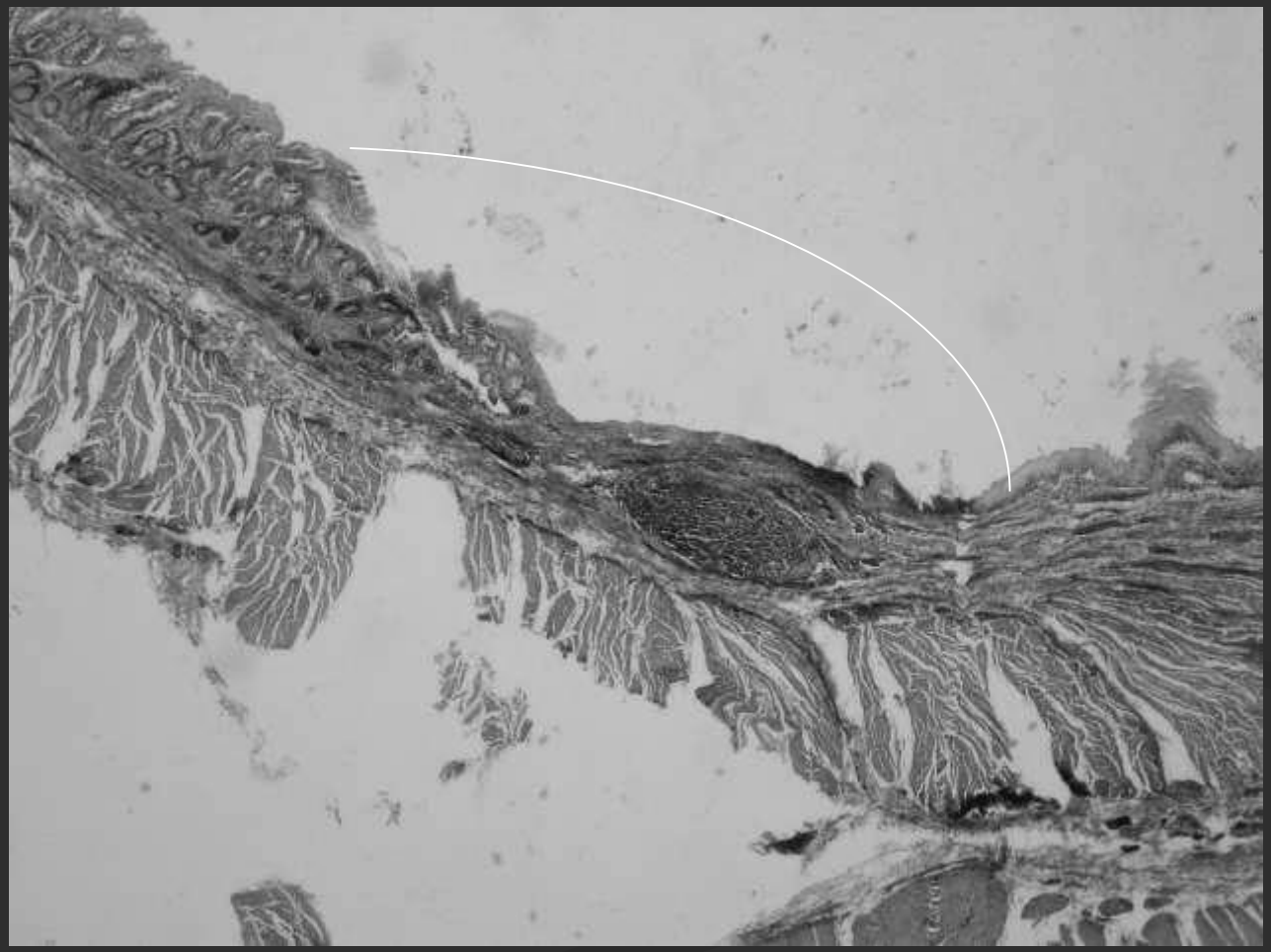
Mesoappedix lymph. Nodu.
Crypt of Lieberkuhn



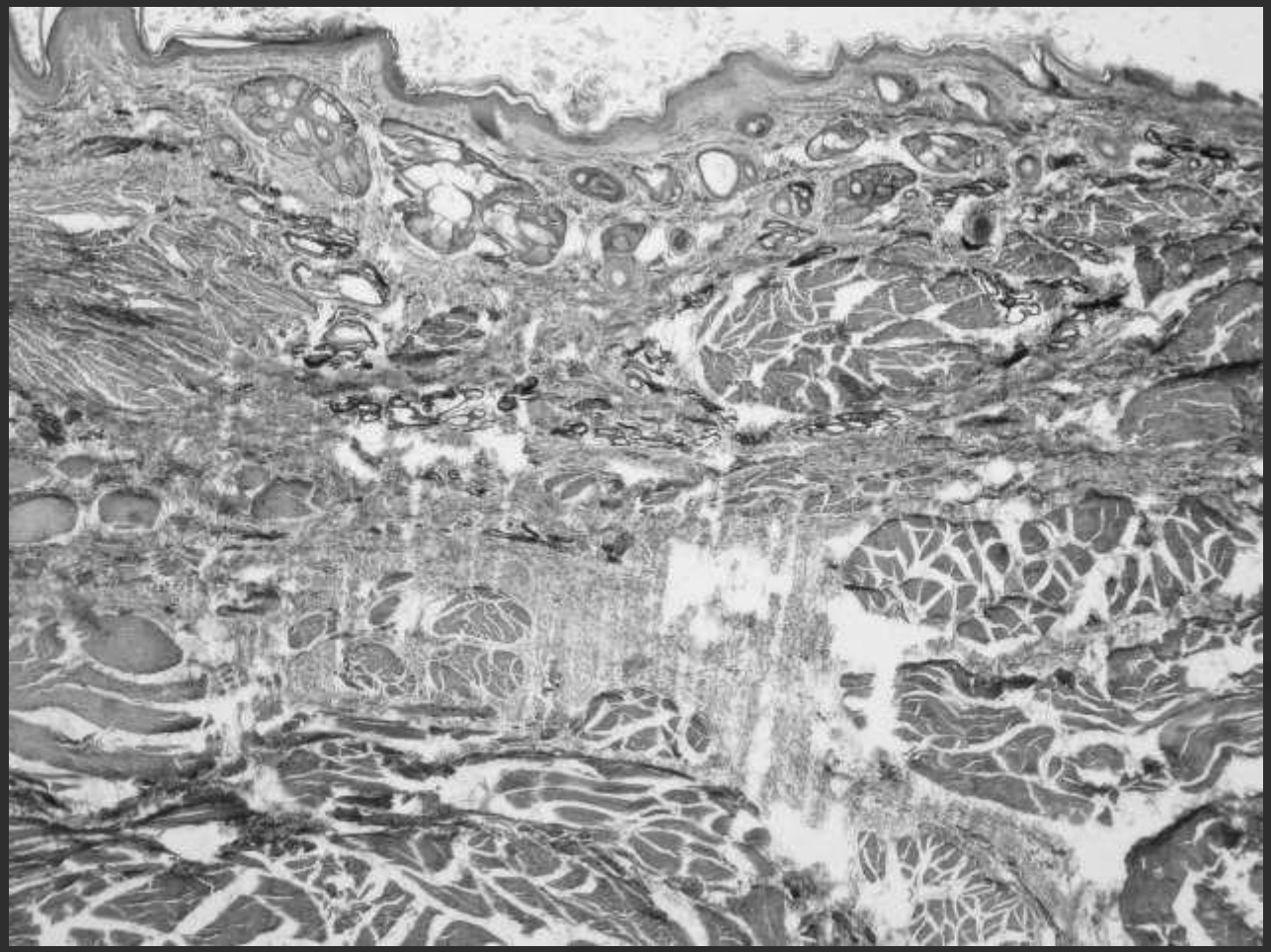
Mu.x.



Rectoanal junction



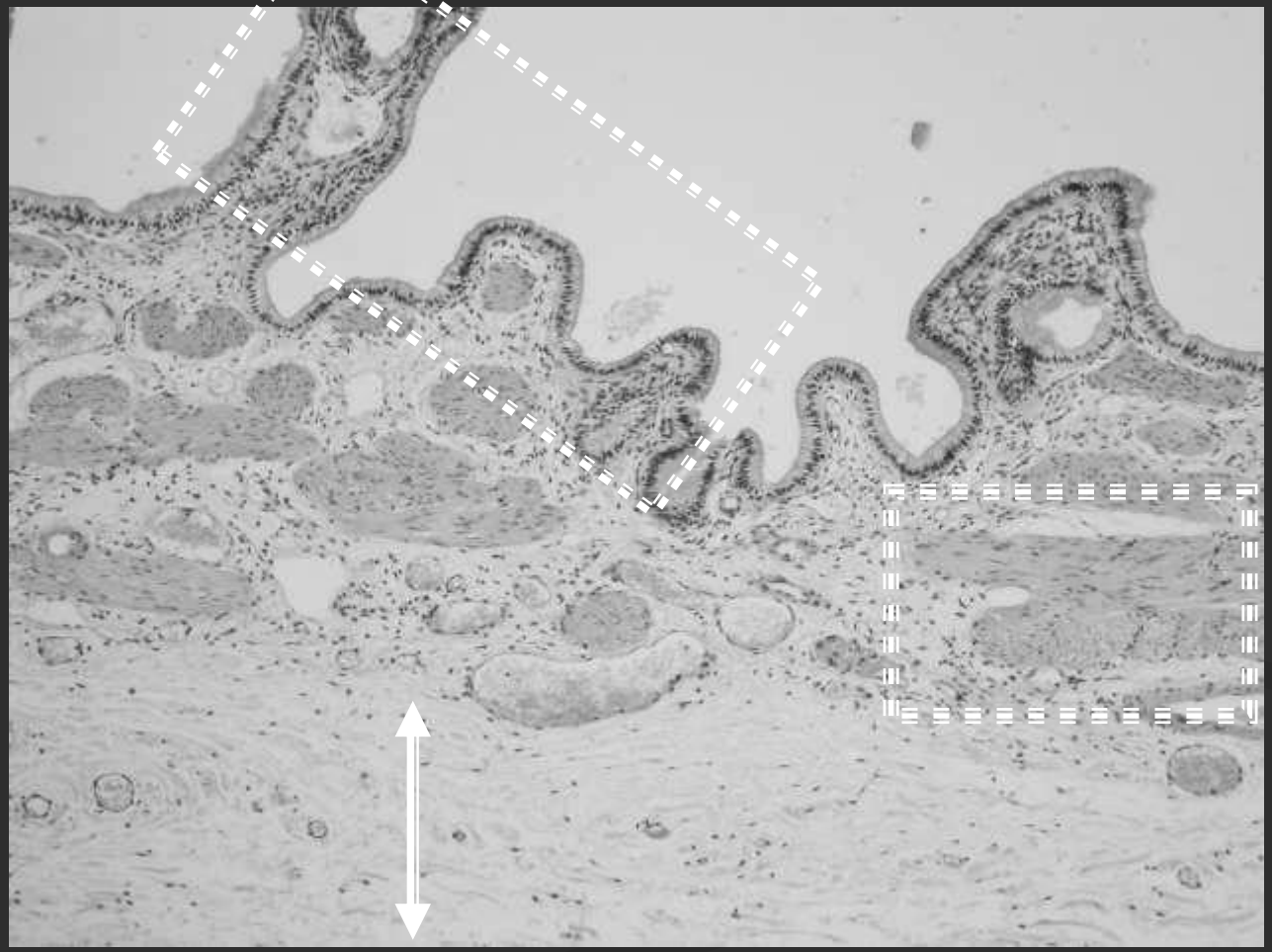
Lower anal canal



Gallbladder

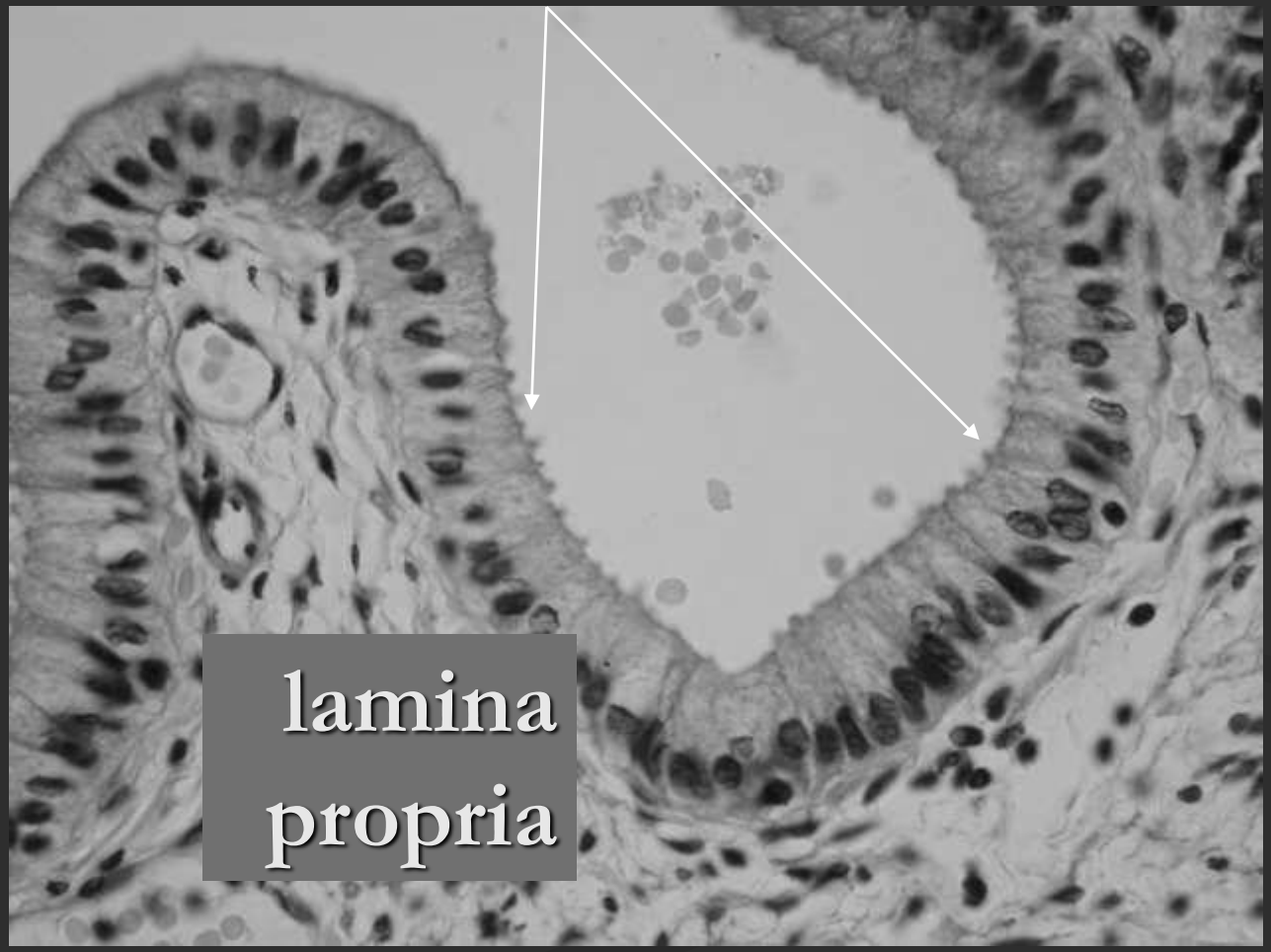
Honey comb folding musc. Bundleswithin lamina propria

Honey comb folding mucosa musc. Bundleswithin lamina propria



lamina propria

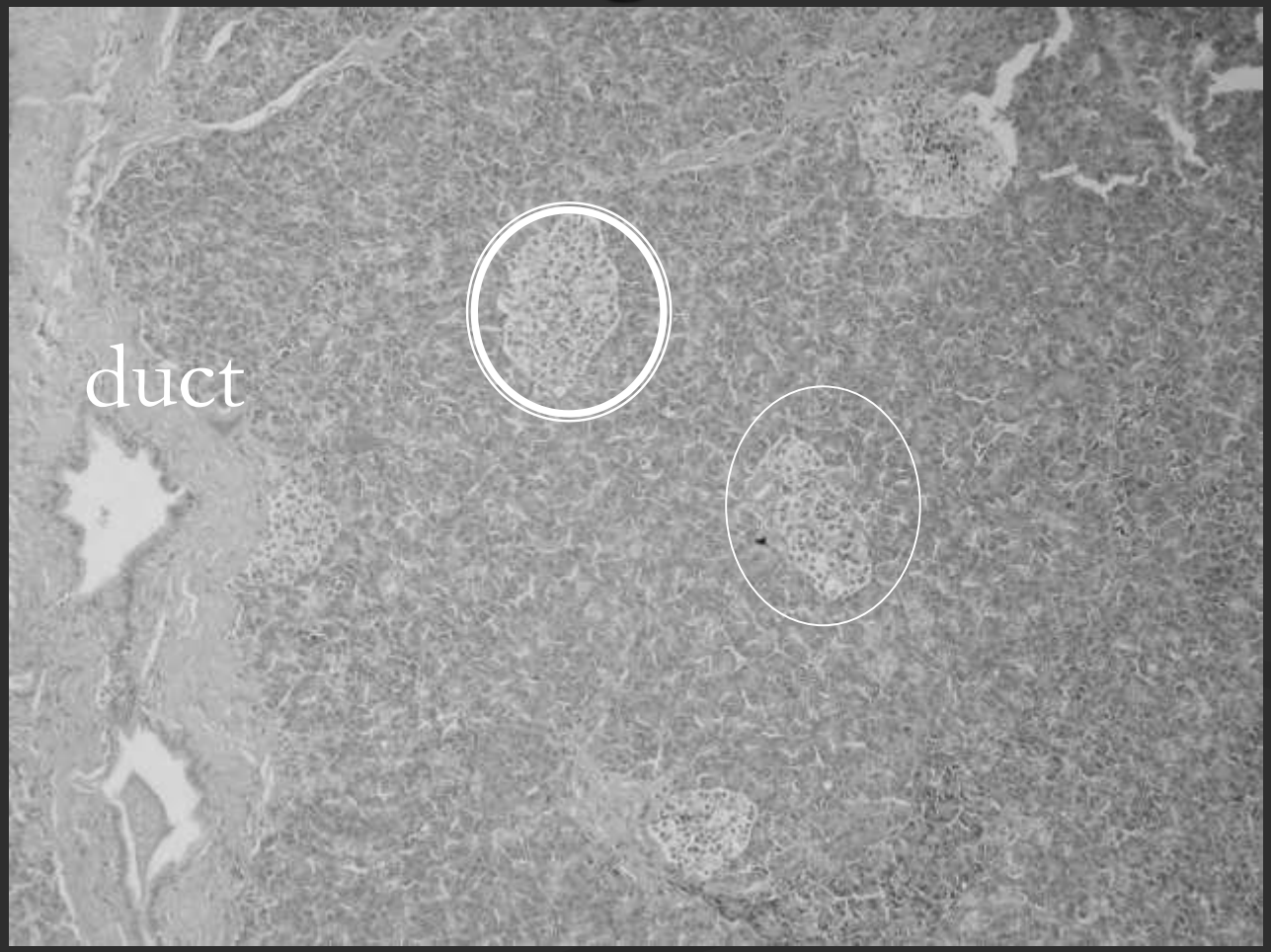
Simple columnar epithelium



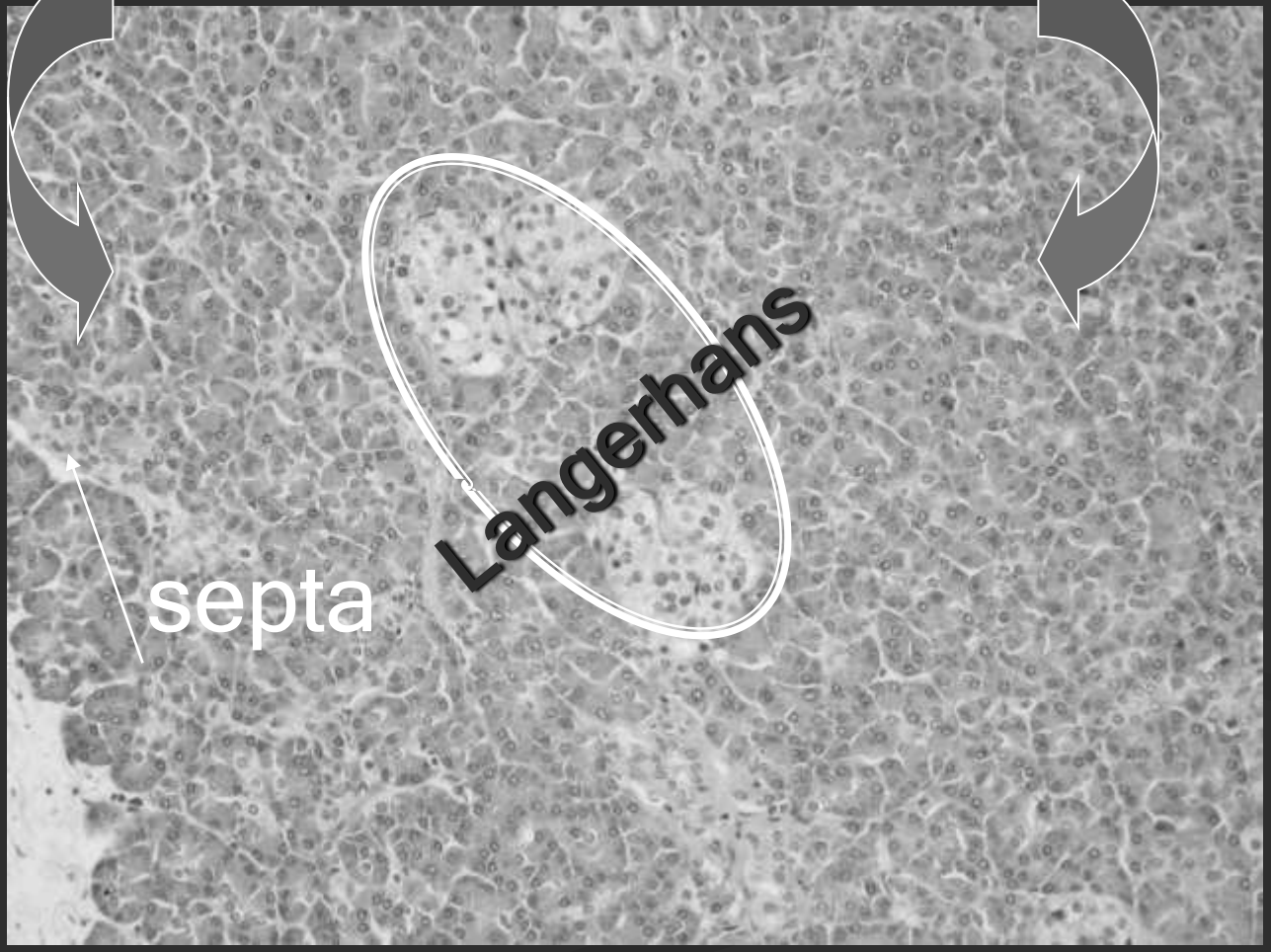
Pancreas

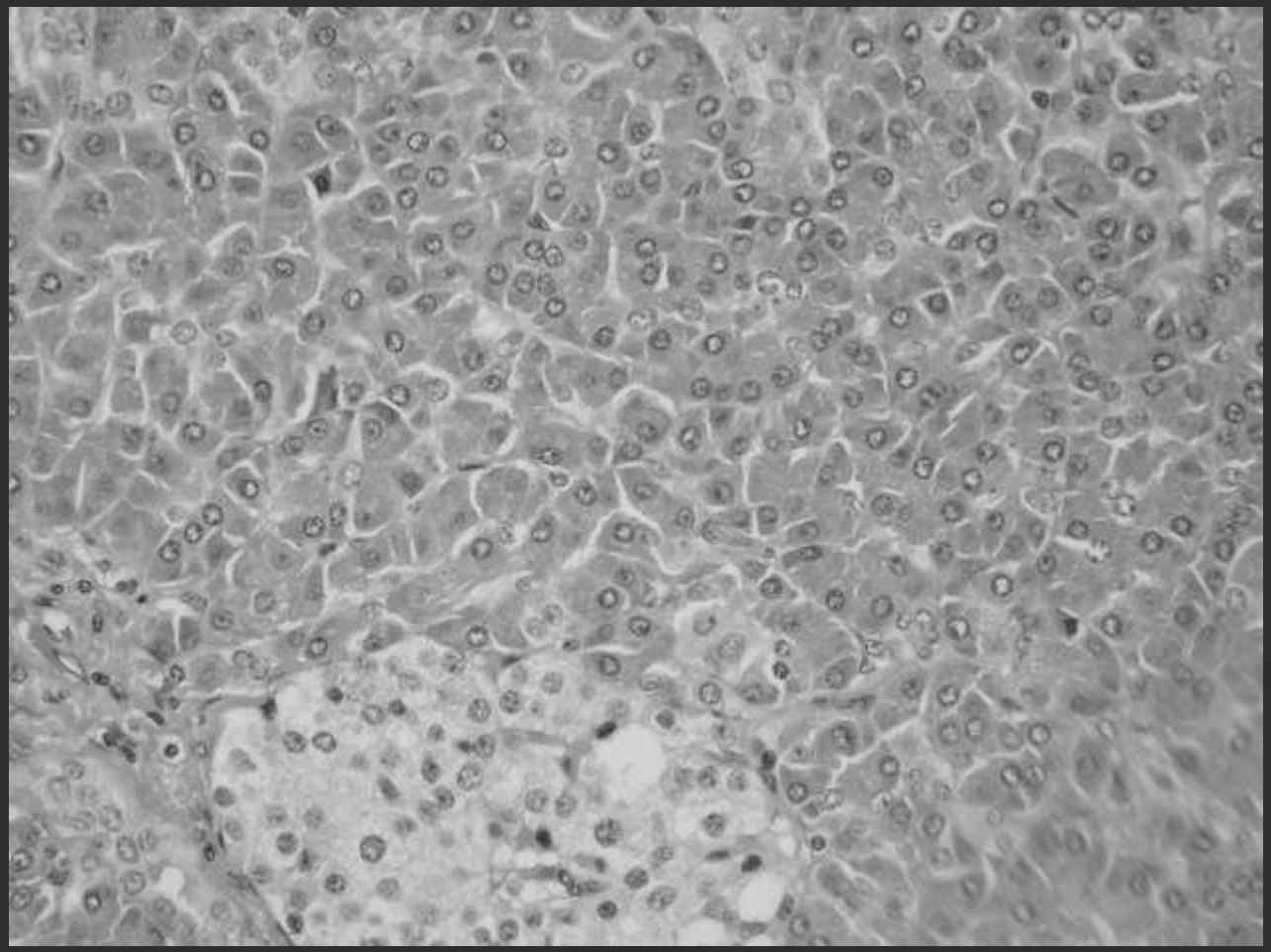
Mixed endocrine-exocrine gland

Islet of Langerhans

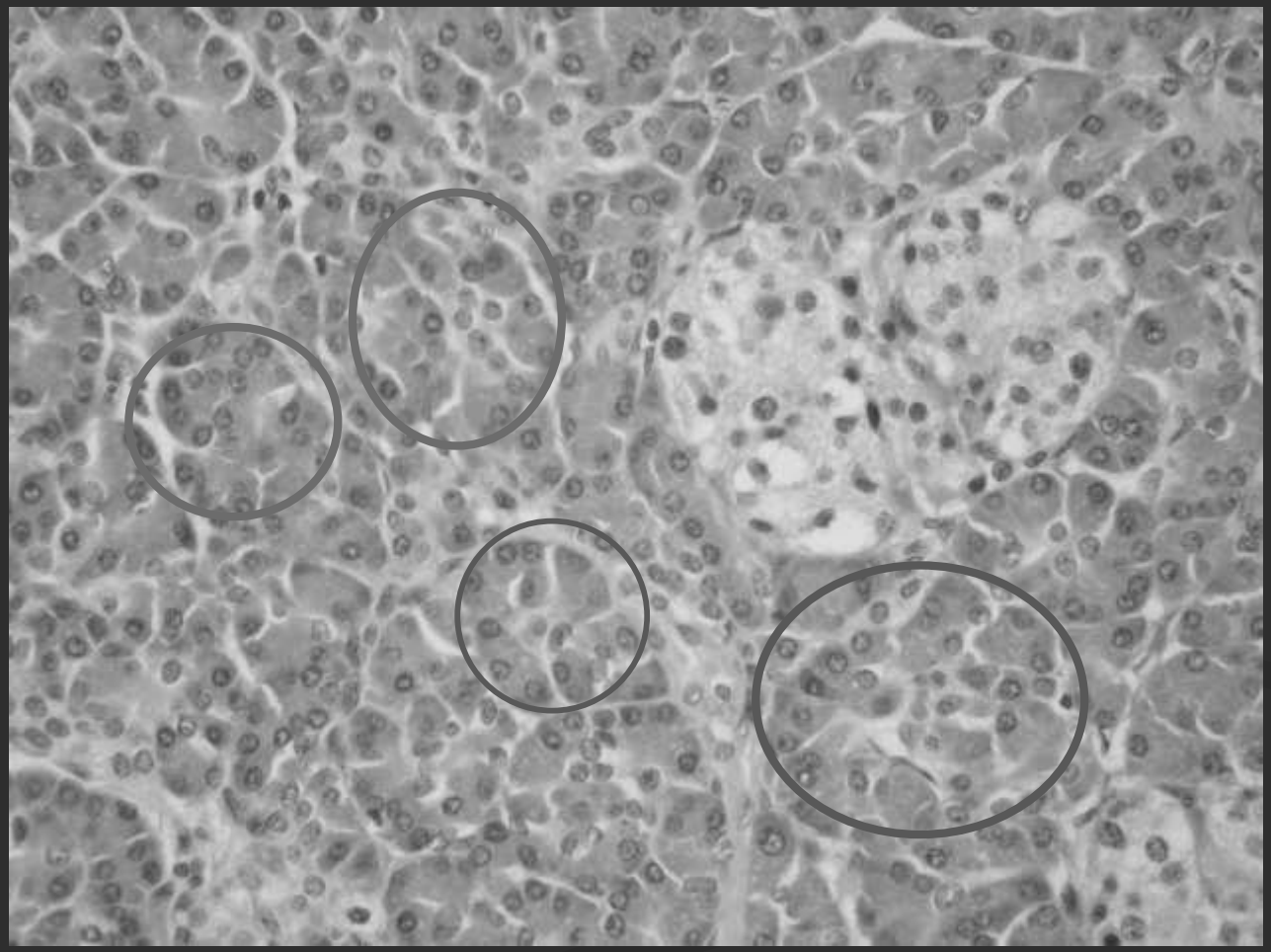


Exocrine pancreatic portion: compound acinar gland

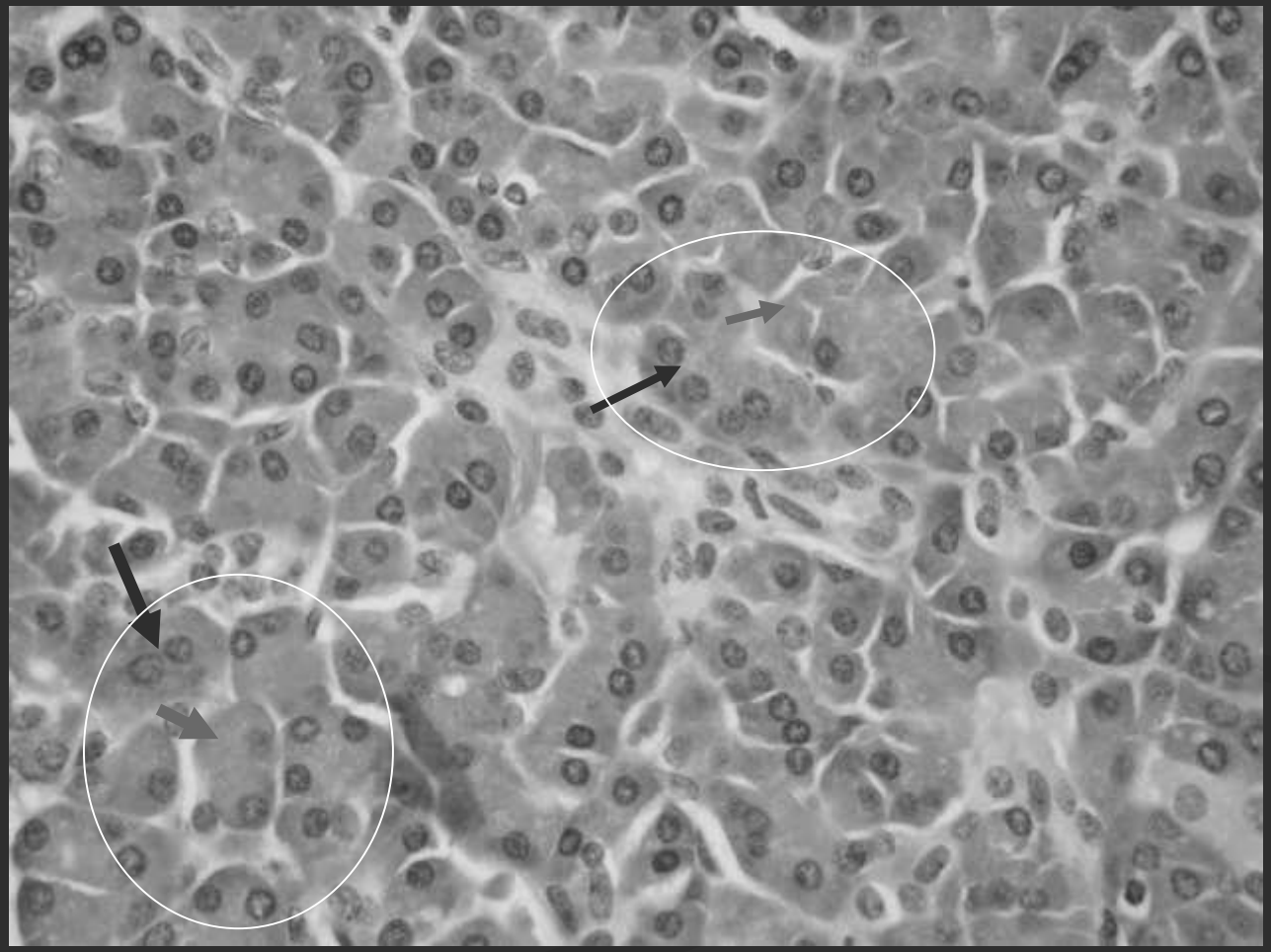




pancreatic Serour acini: protein secretory cells

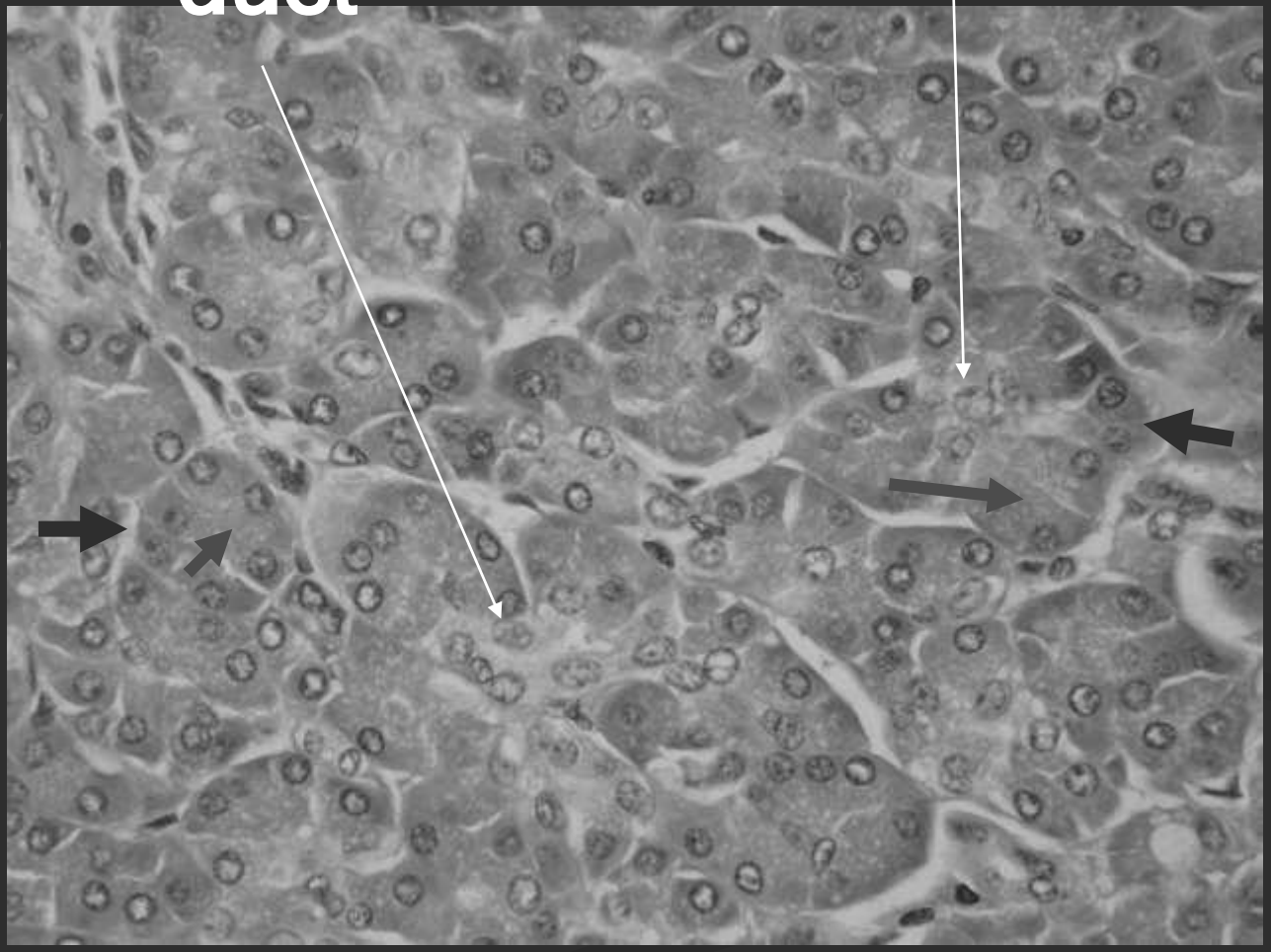


Zymogenic granules basophilil cell cytoplasm



Inter calated duct

Centroacinar cells



Secretory granules

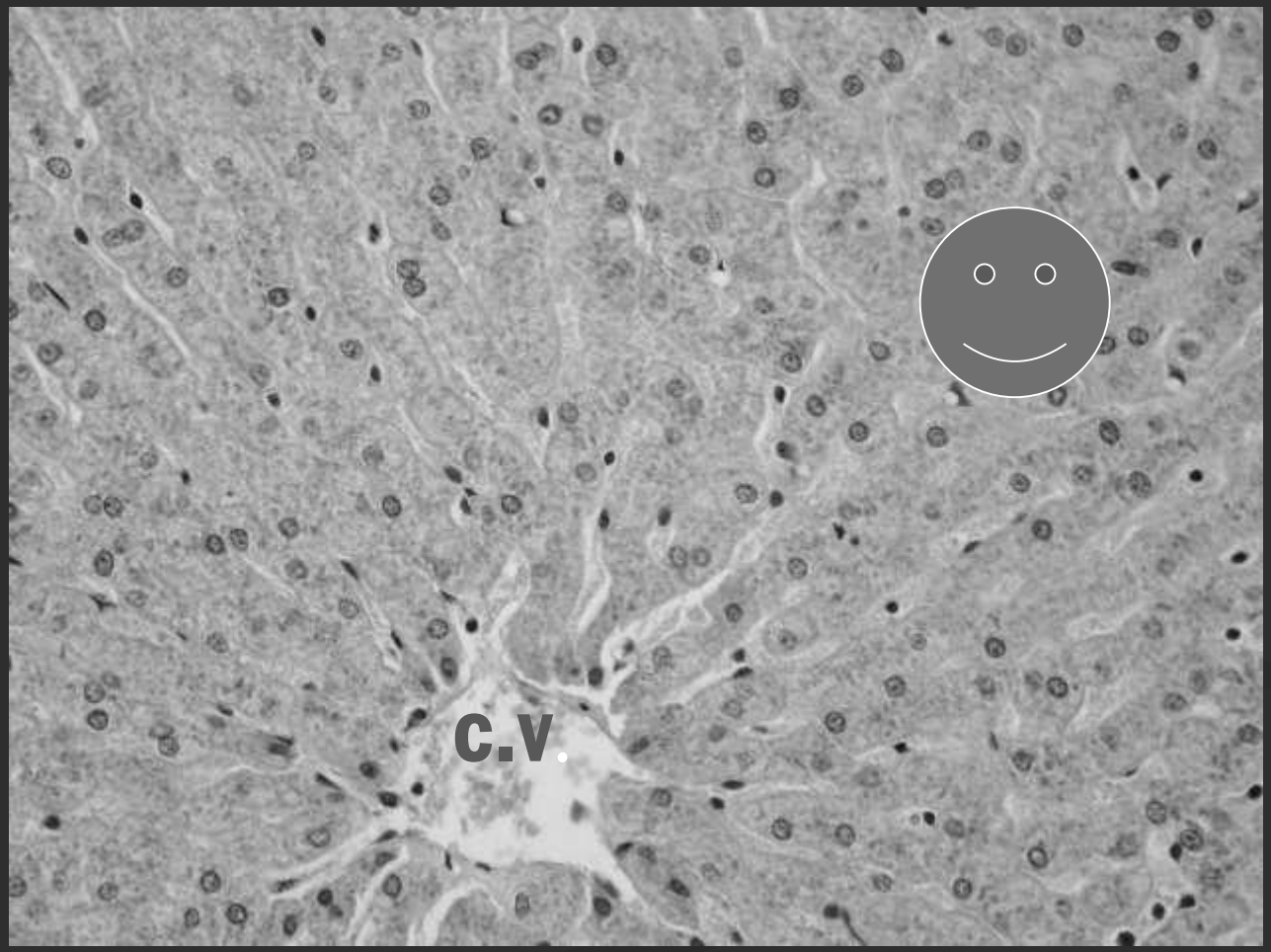
r-ER

The Liver

Animal liver glisson'capsule

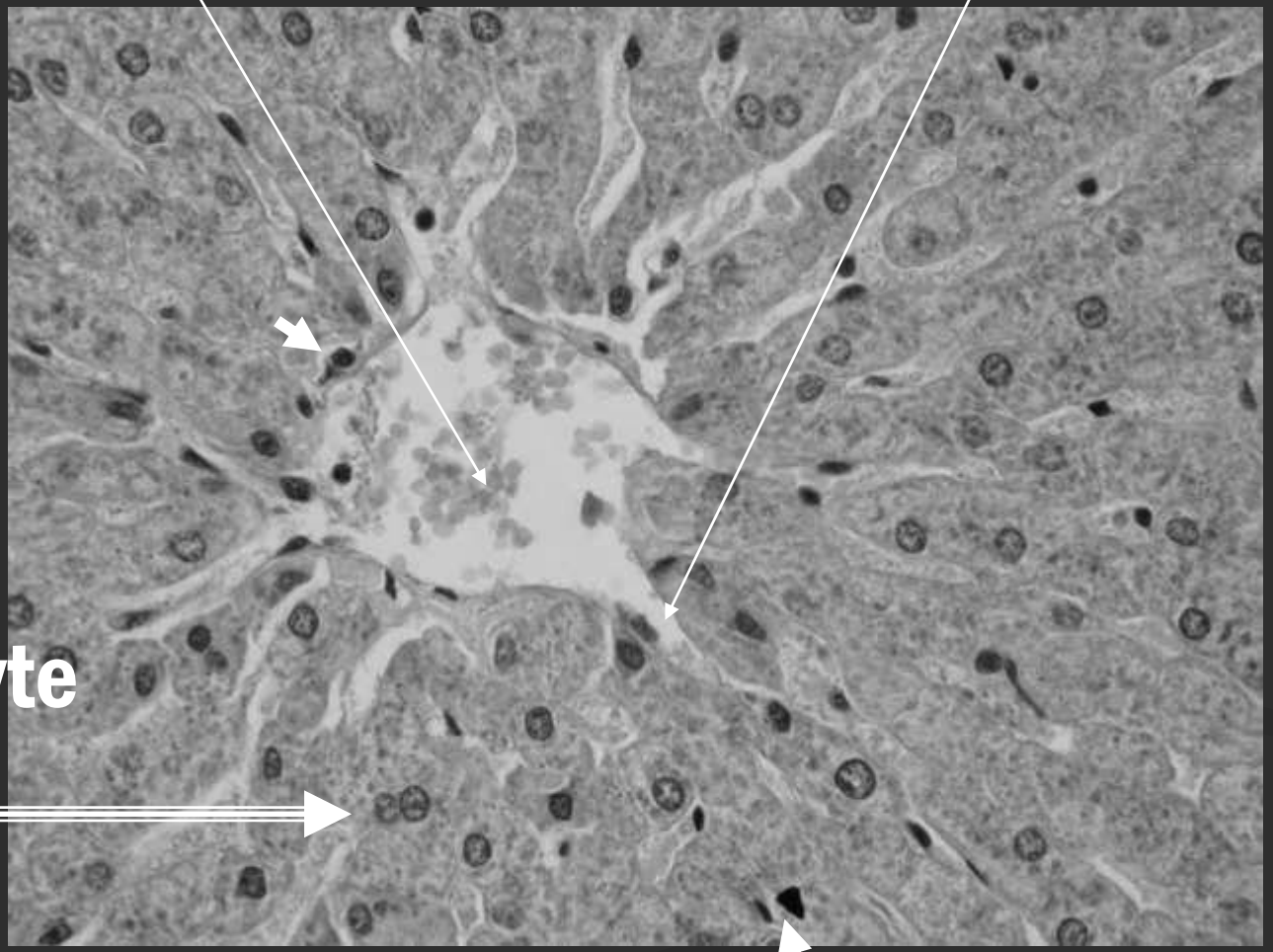
Portal space

Parenchyma portion



Central vein

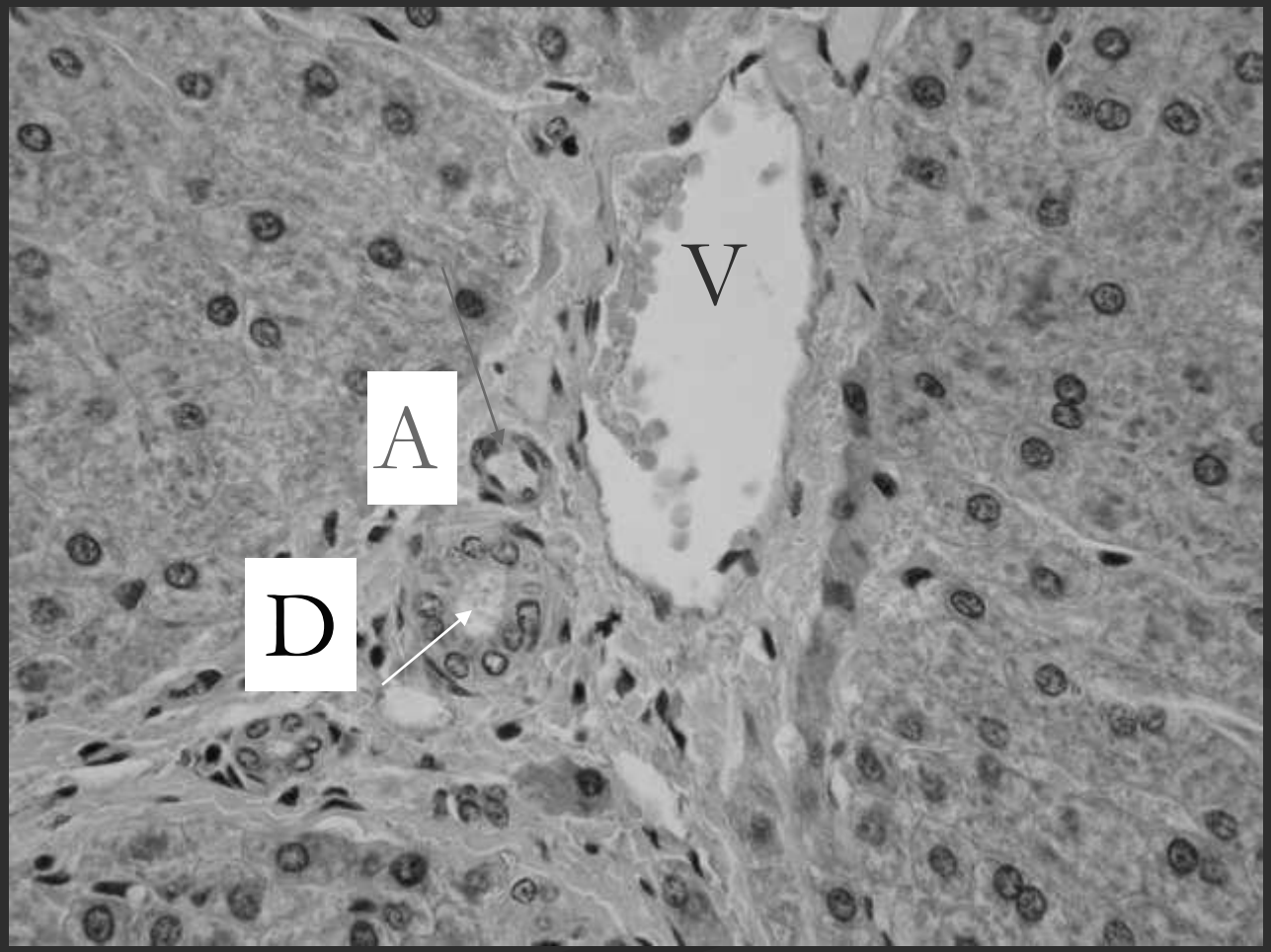
Sinusoid(endothelium)



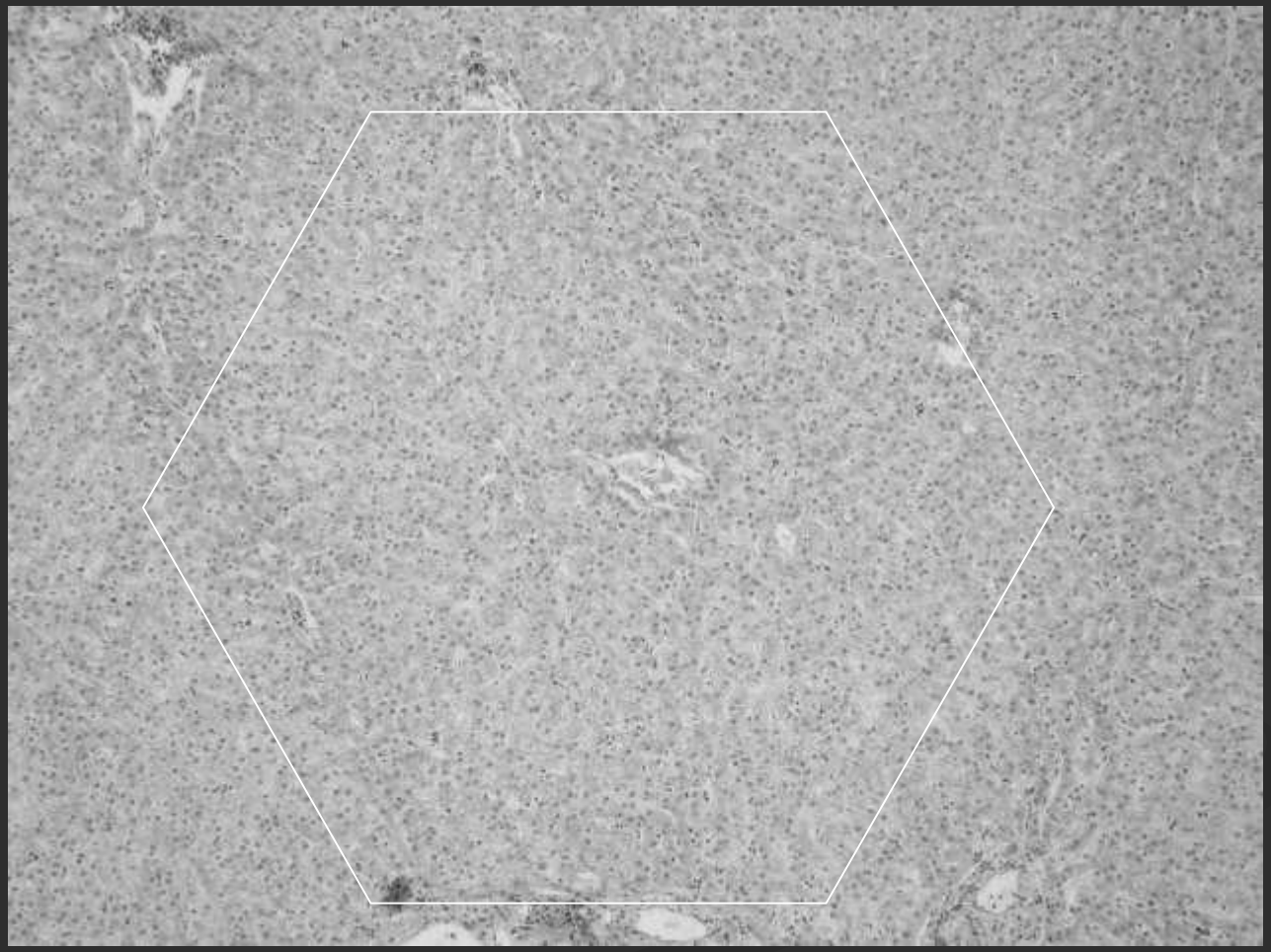
hepatocyte

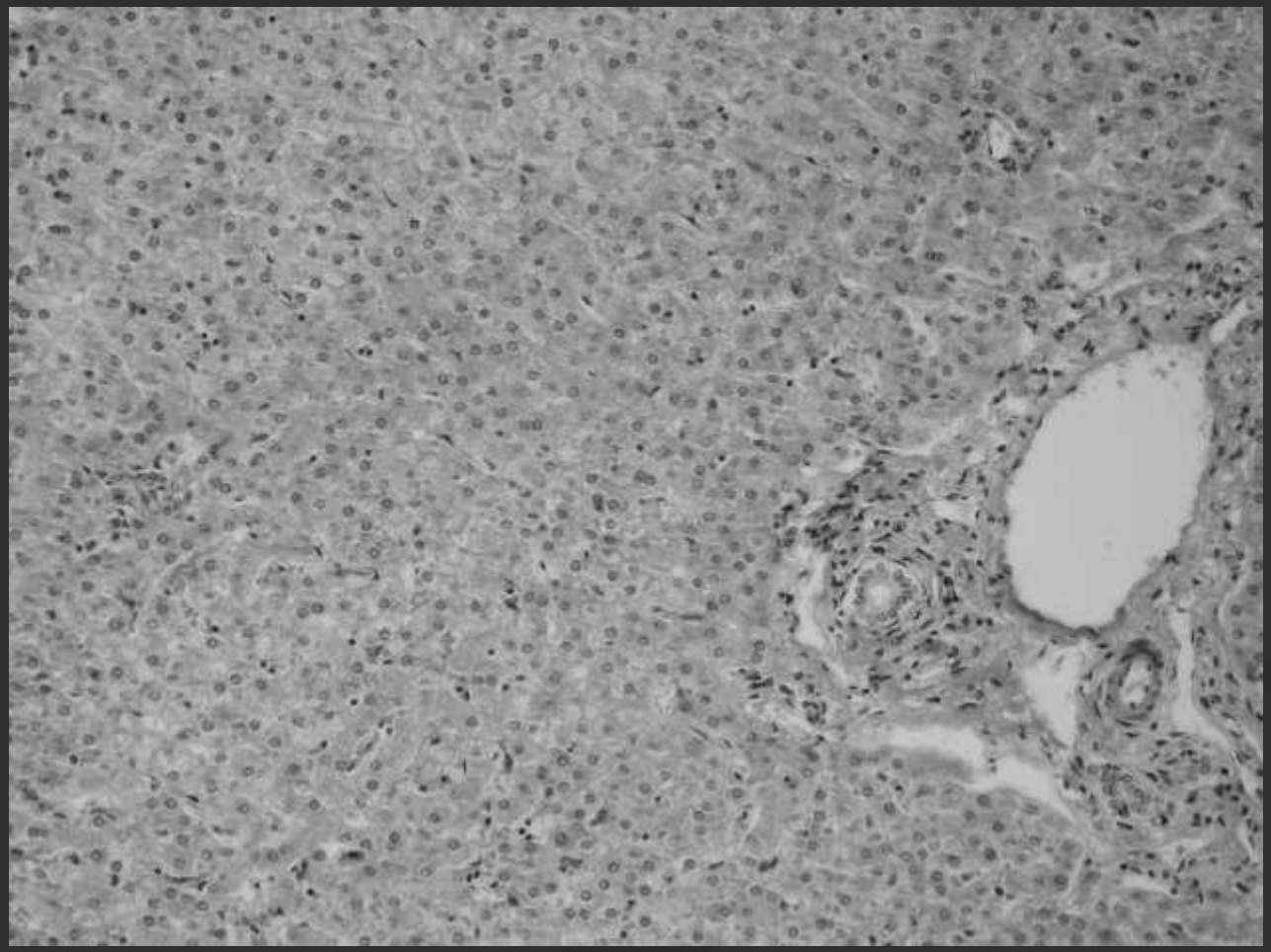
Kupffer Cell

Portal vein hepatic artery bile duct

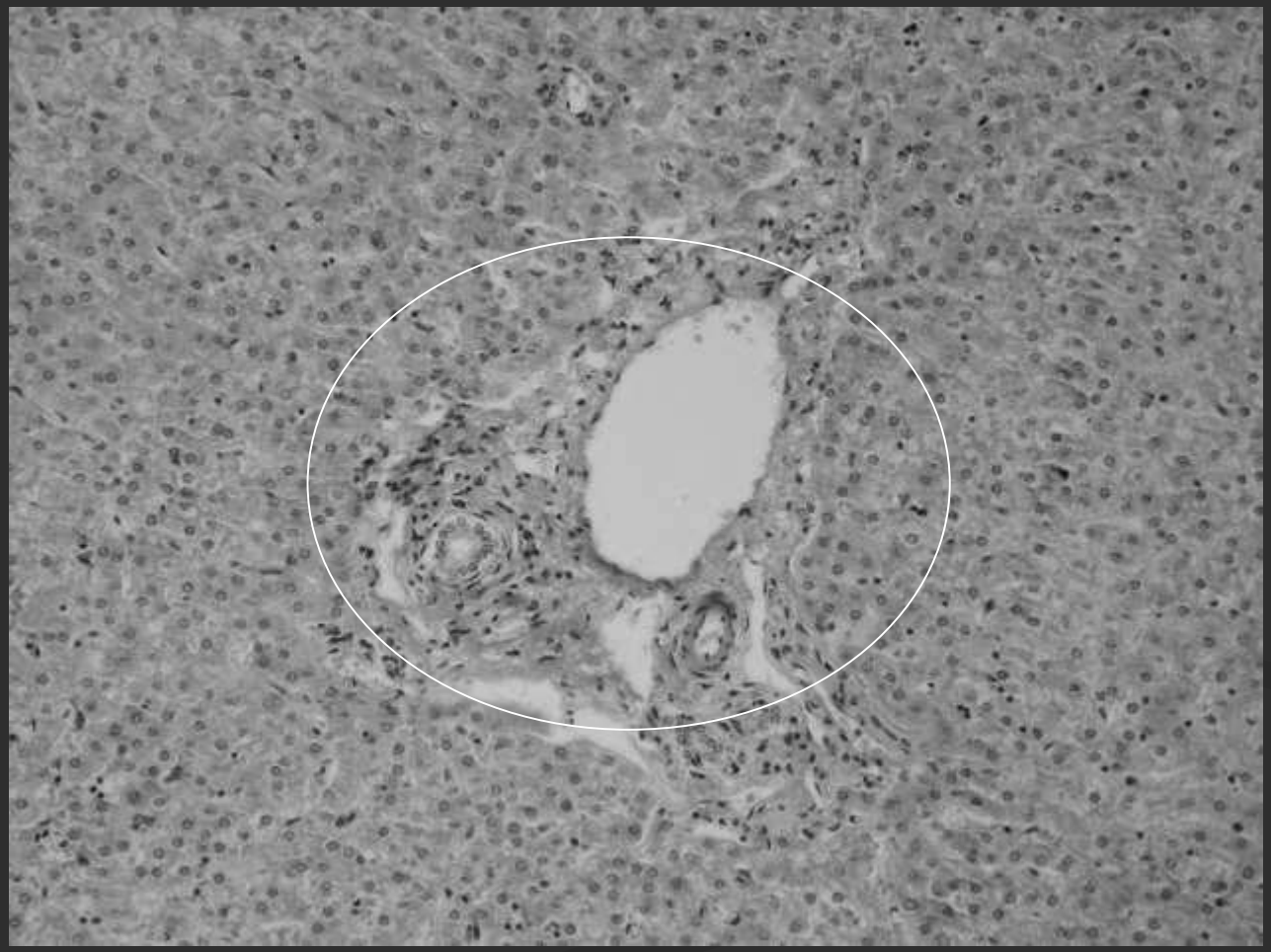


Human Liver

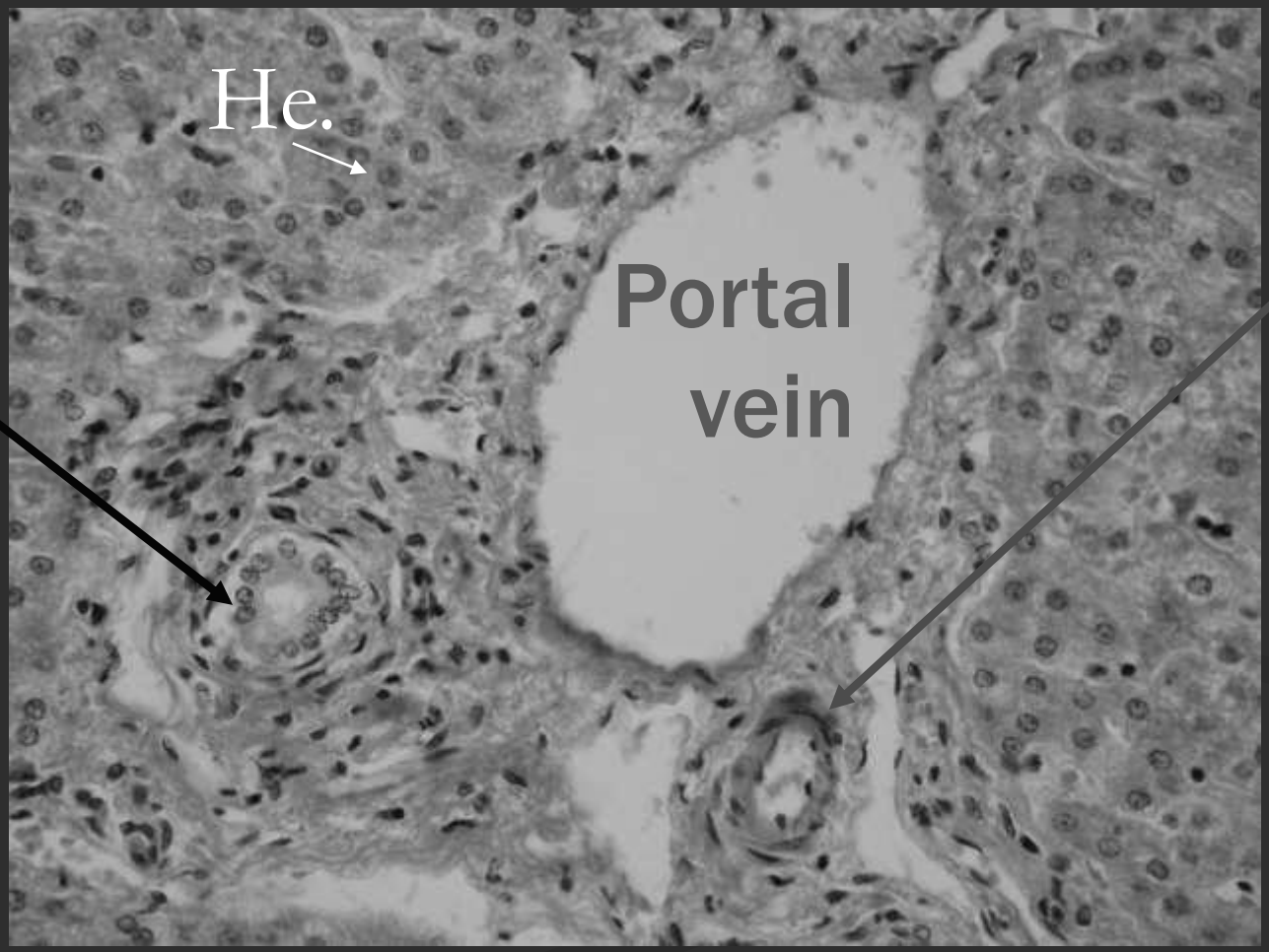




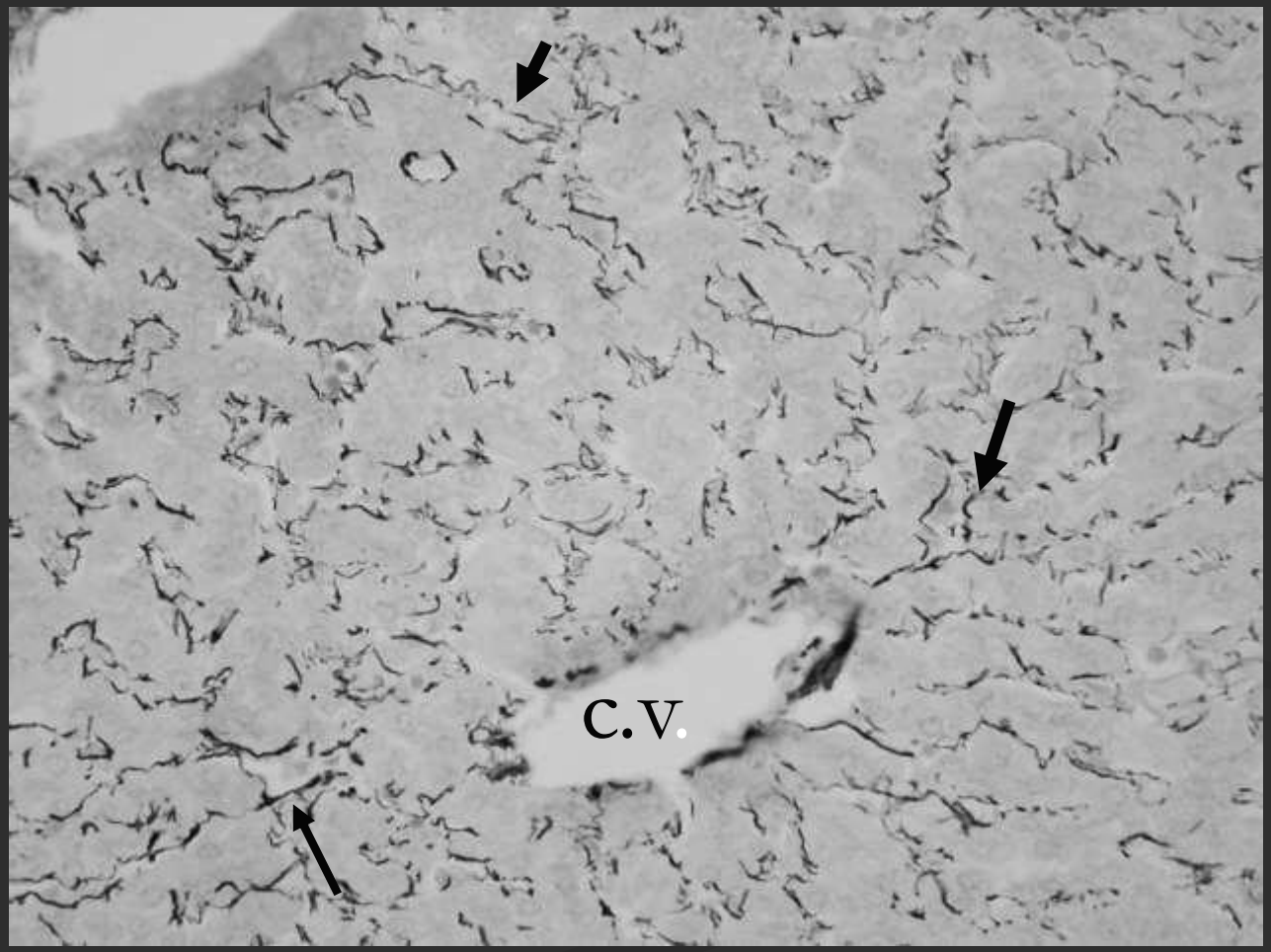
Portal space



bile duct **hepatic artery**



Silver impregnation reticular fibers



P.A.S reaction

glycogen