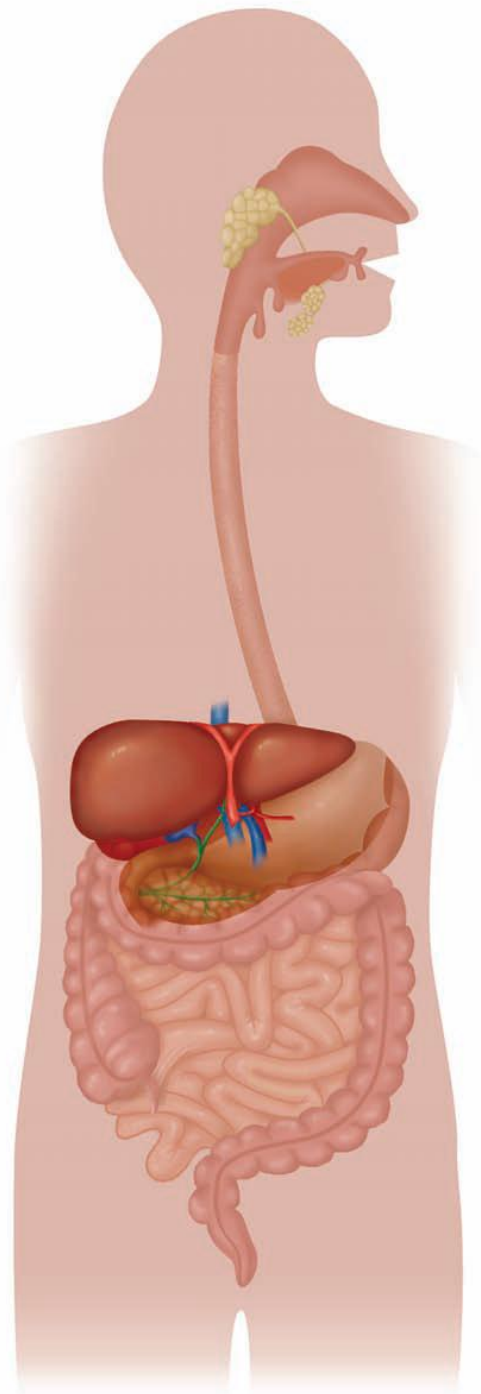
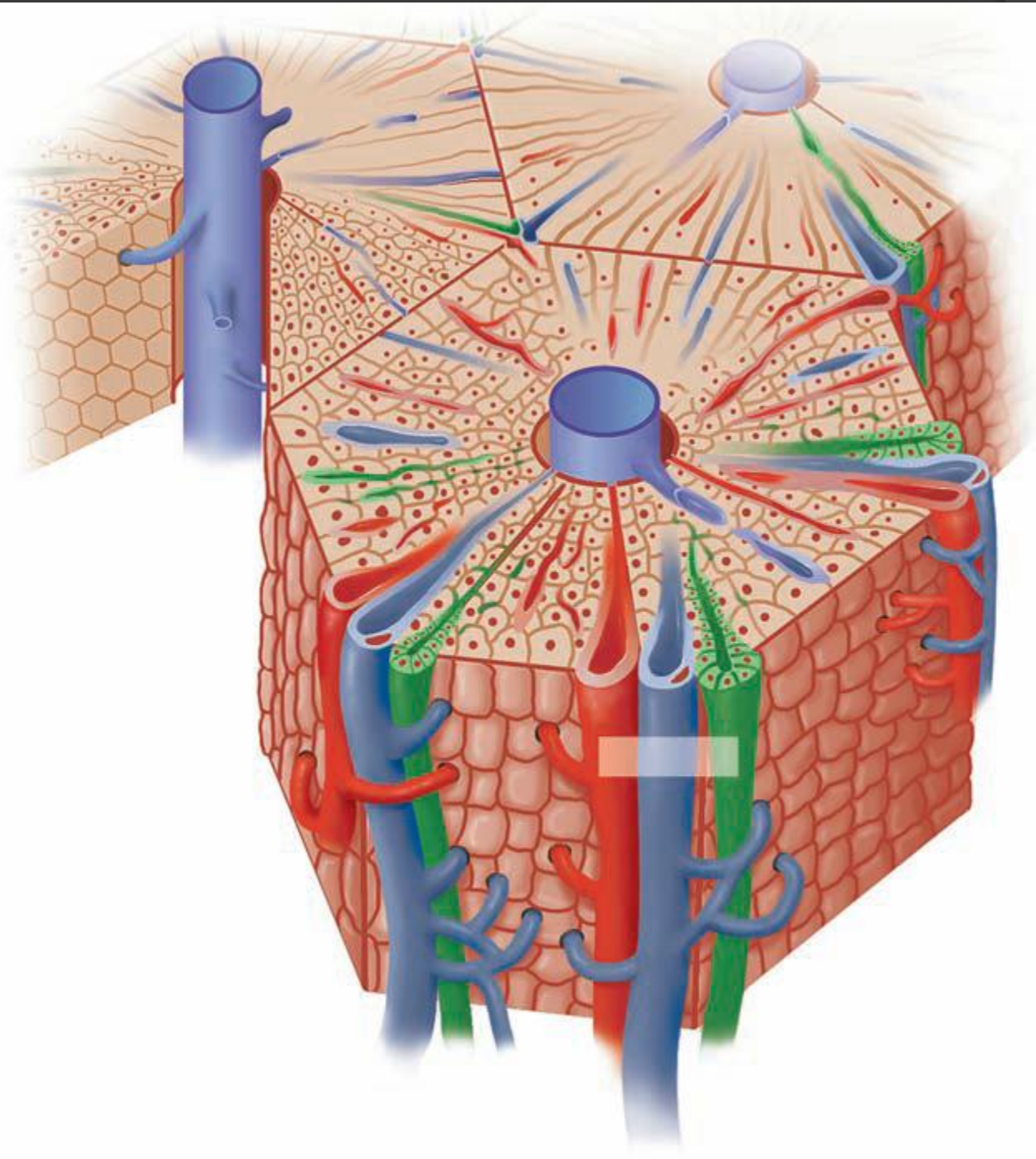


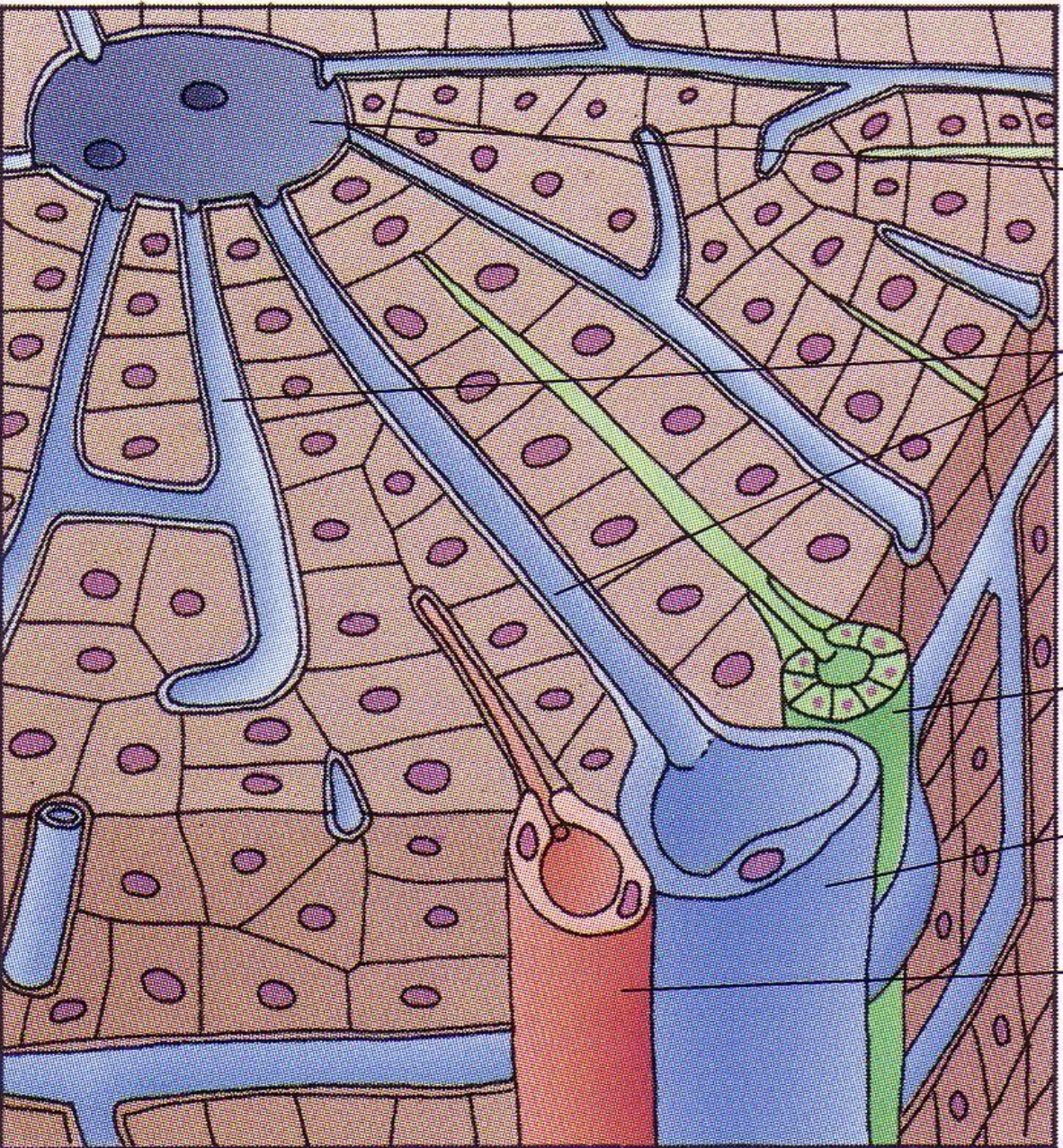
# **Glands of the Digestive System**



# **The Liver (Hepar)**







Central vein

Sinusoids

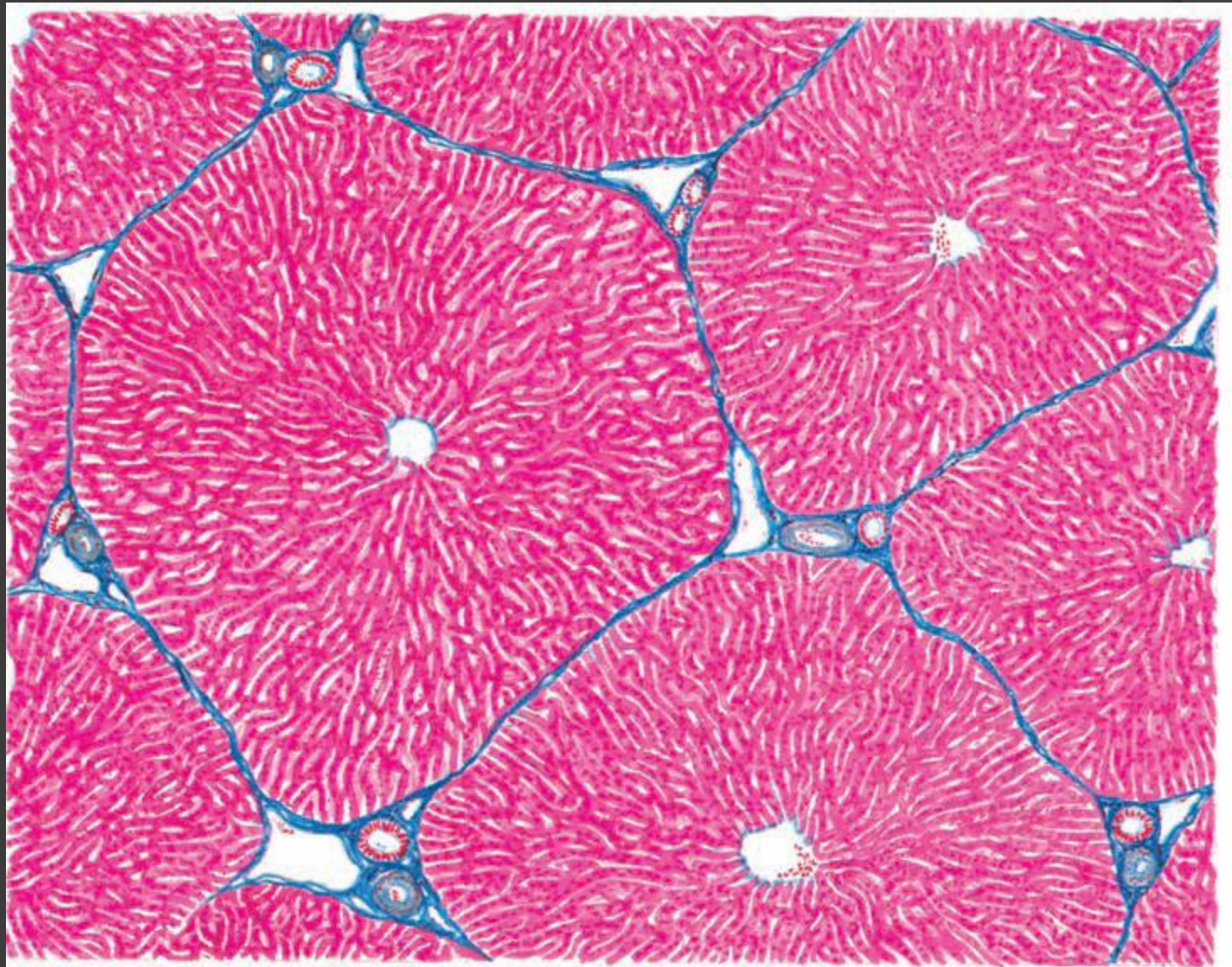
Bile duct

Portal vein

Hepatic artery

} Portal triad

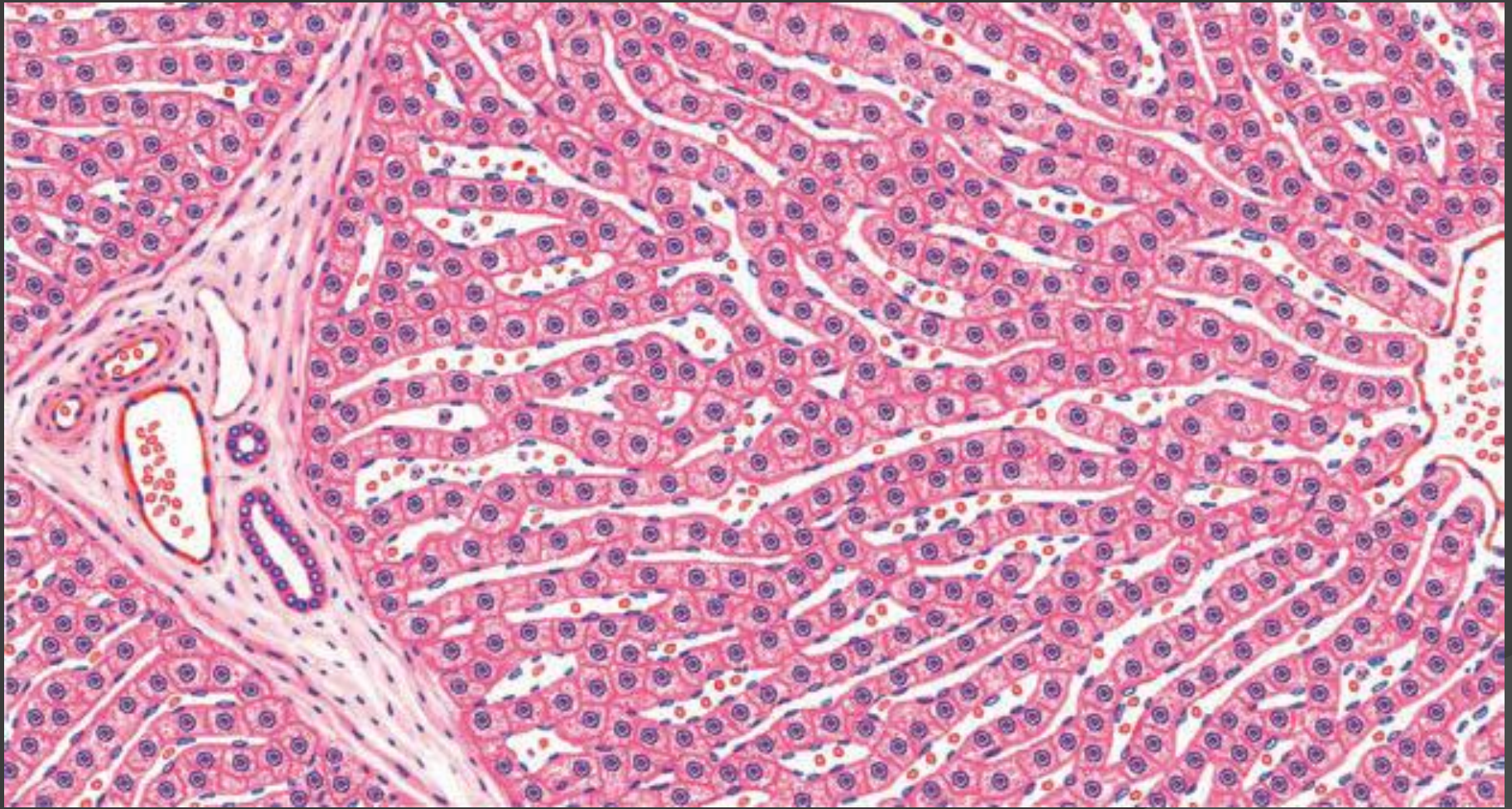




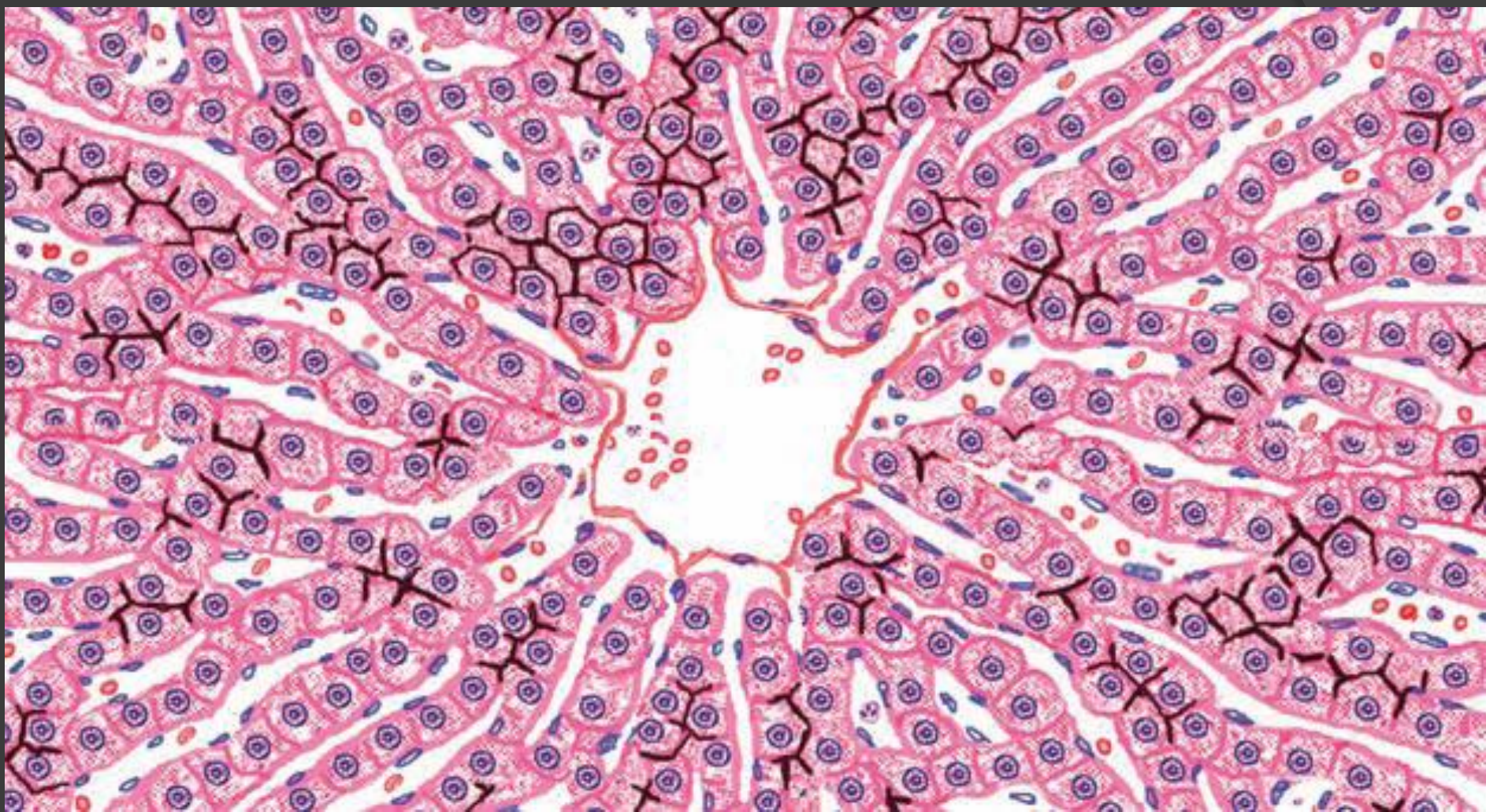




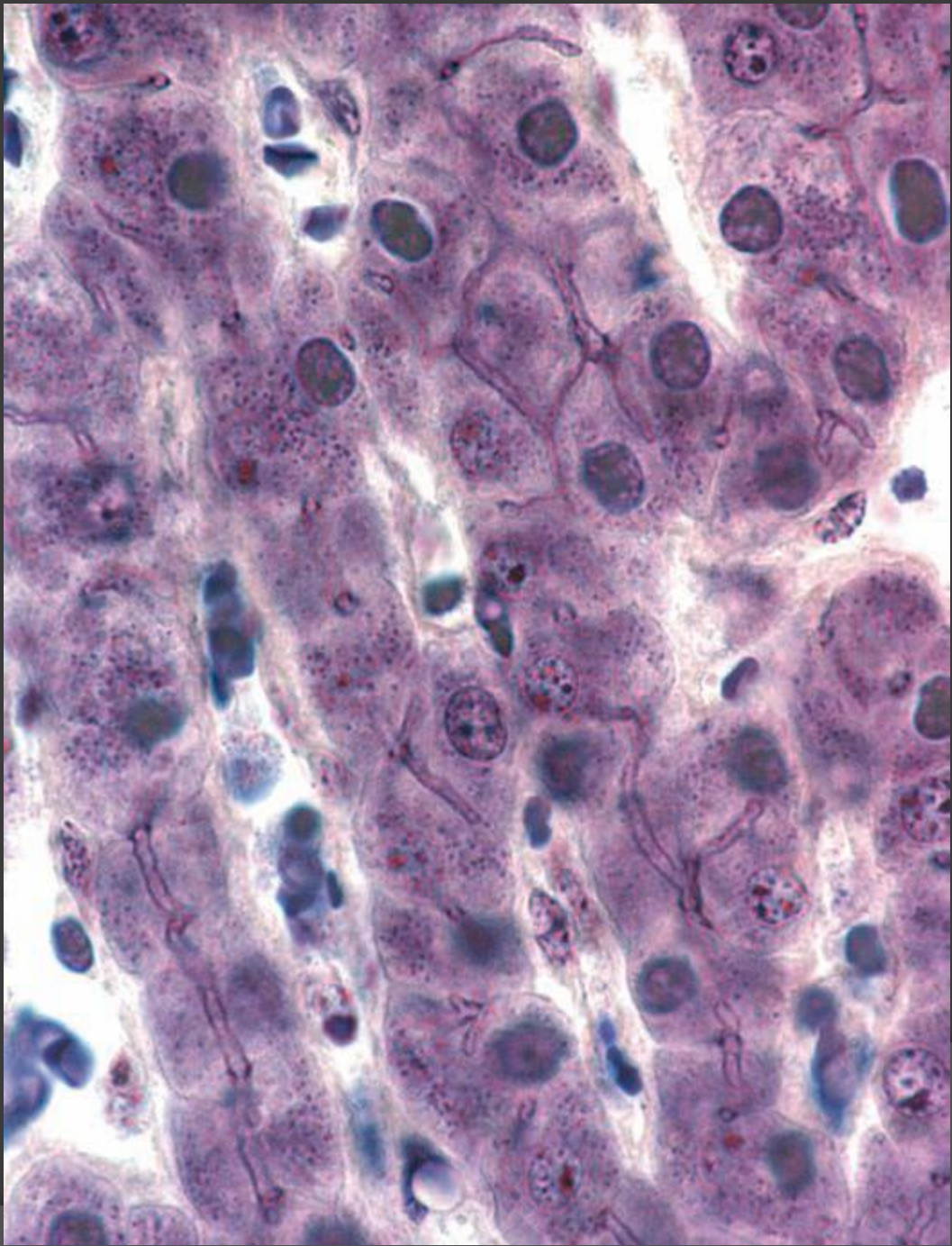




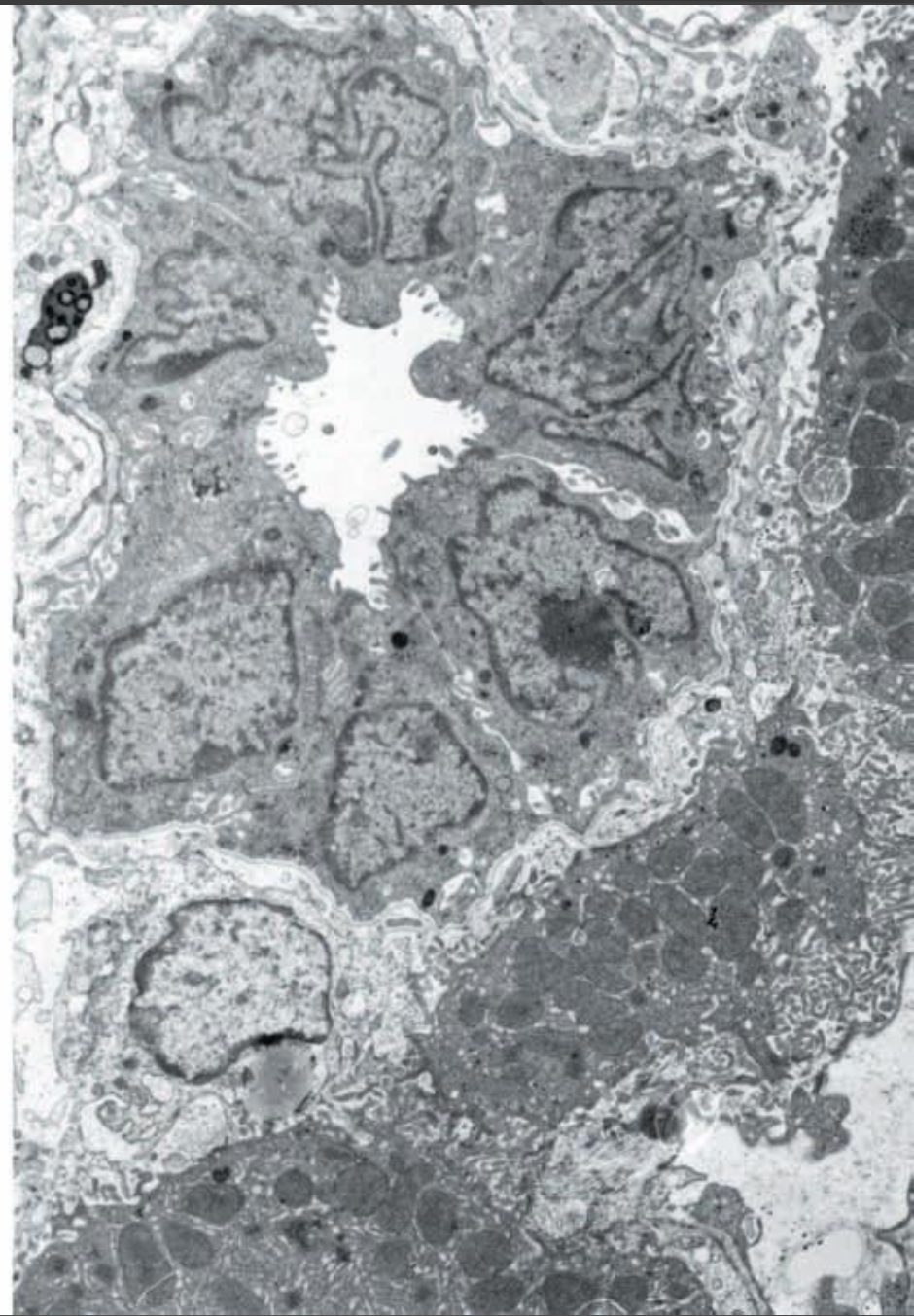
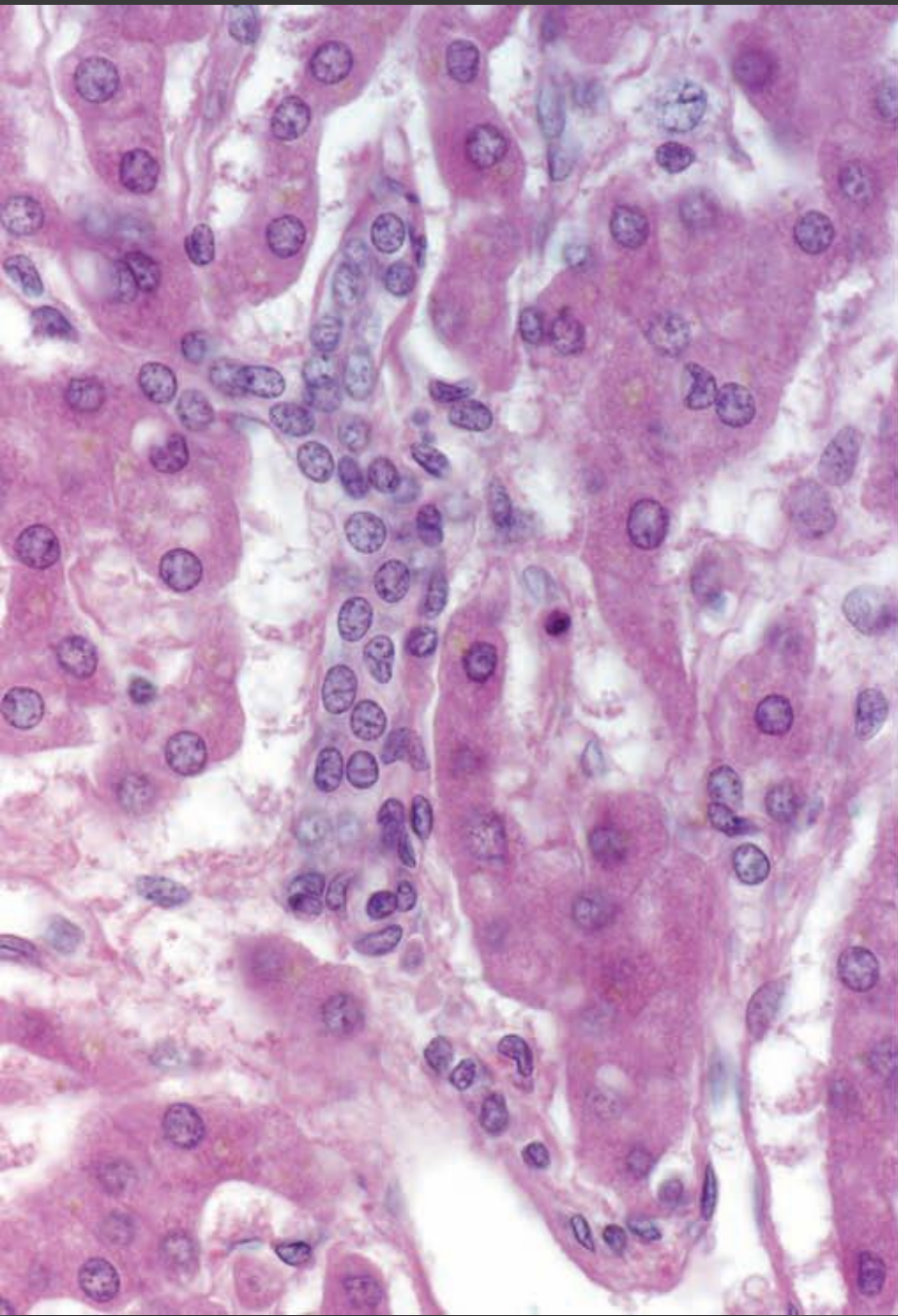


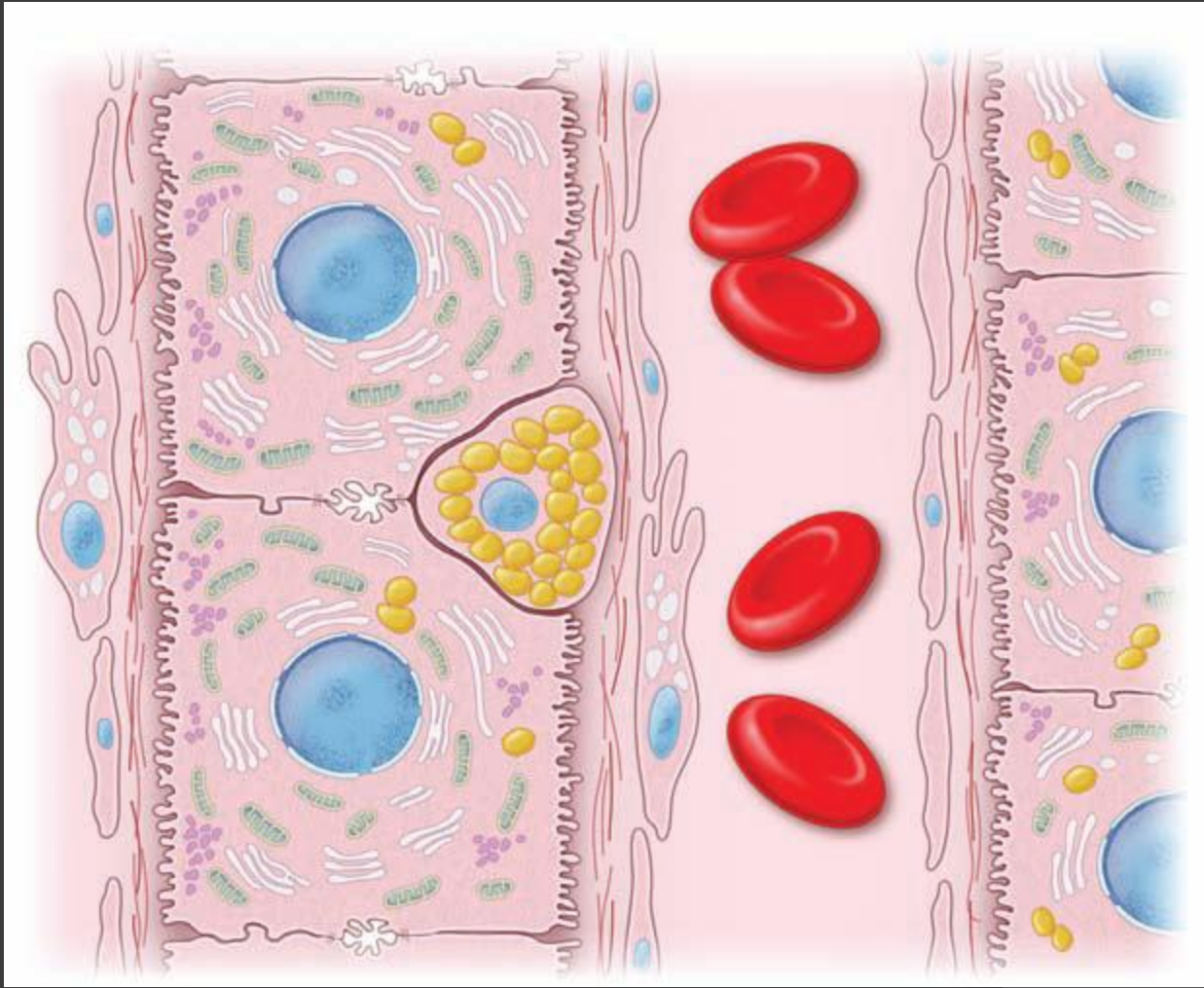




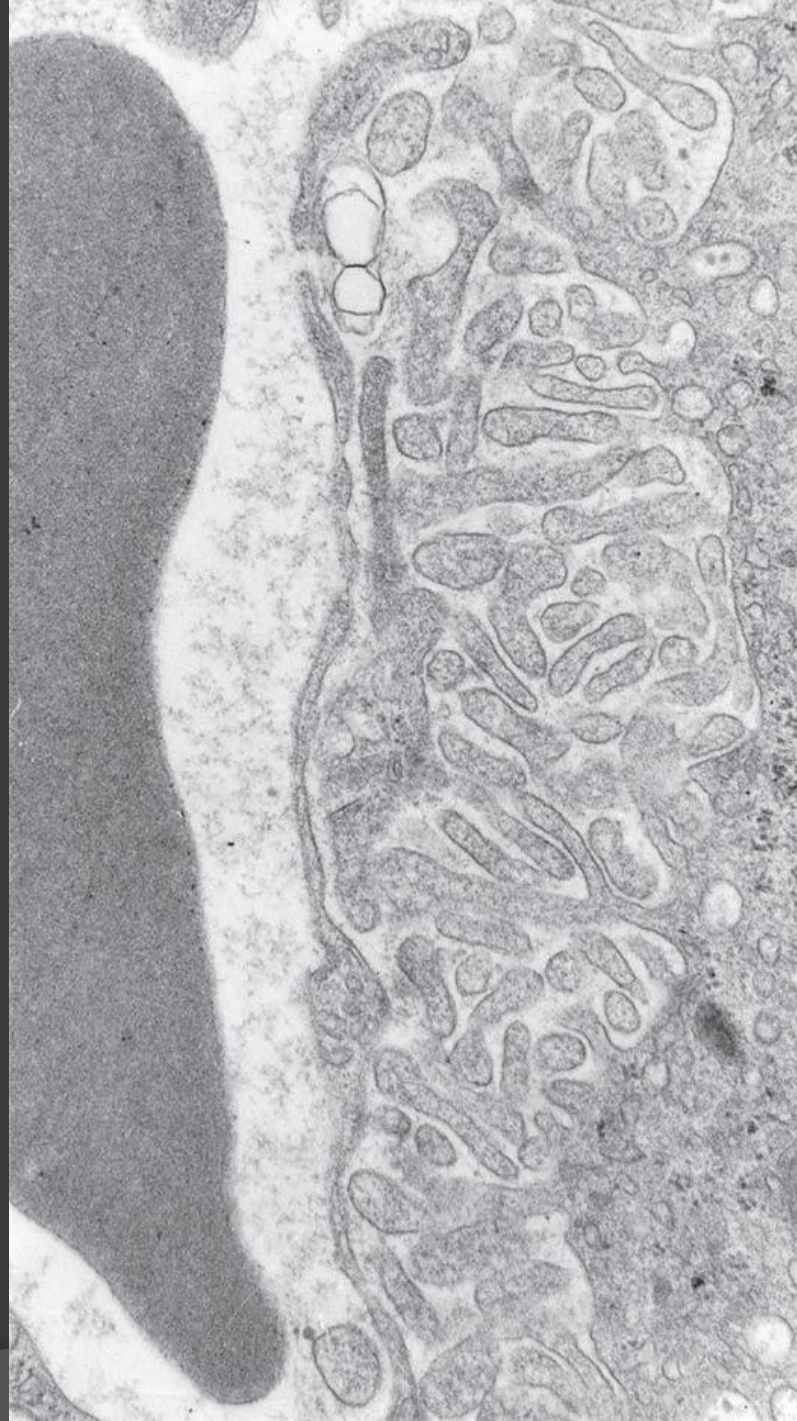
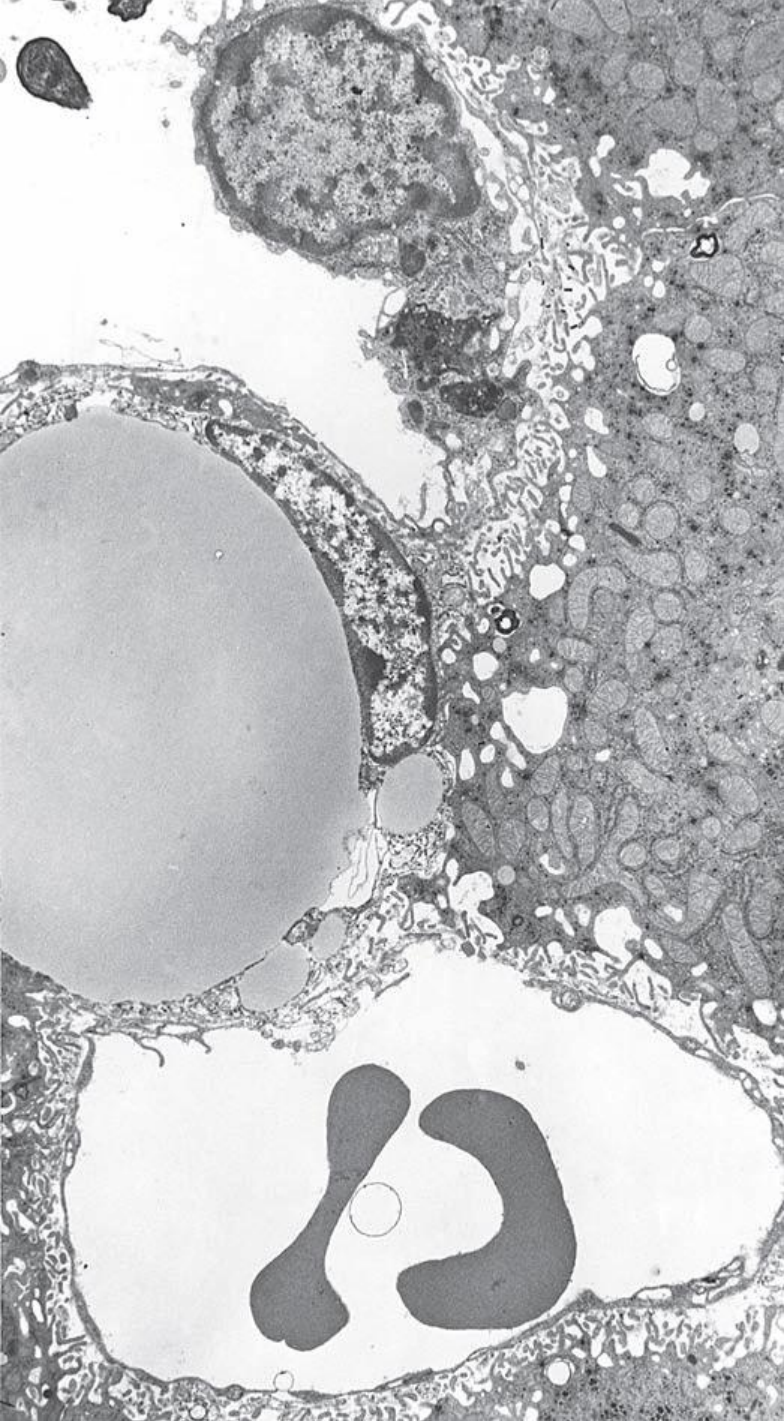




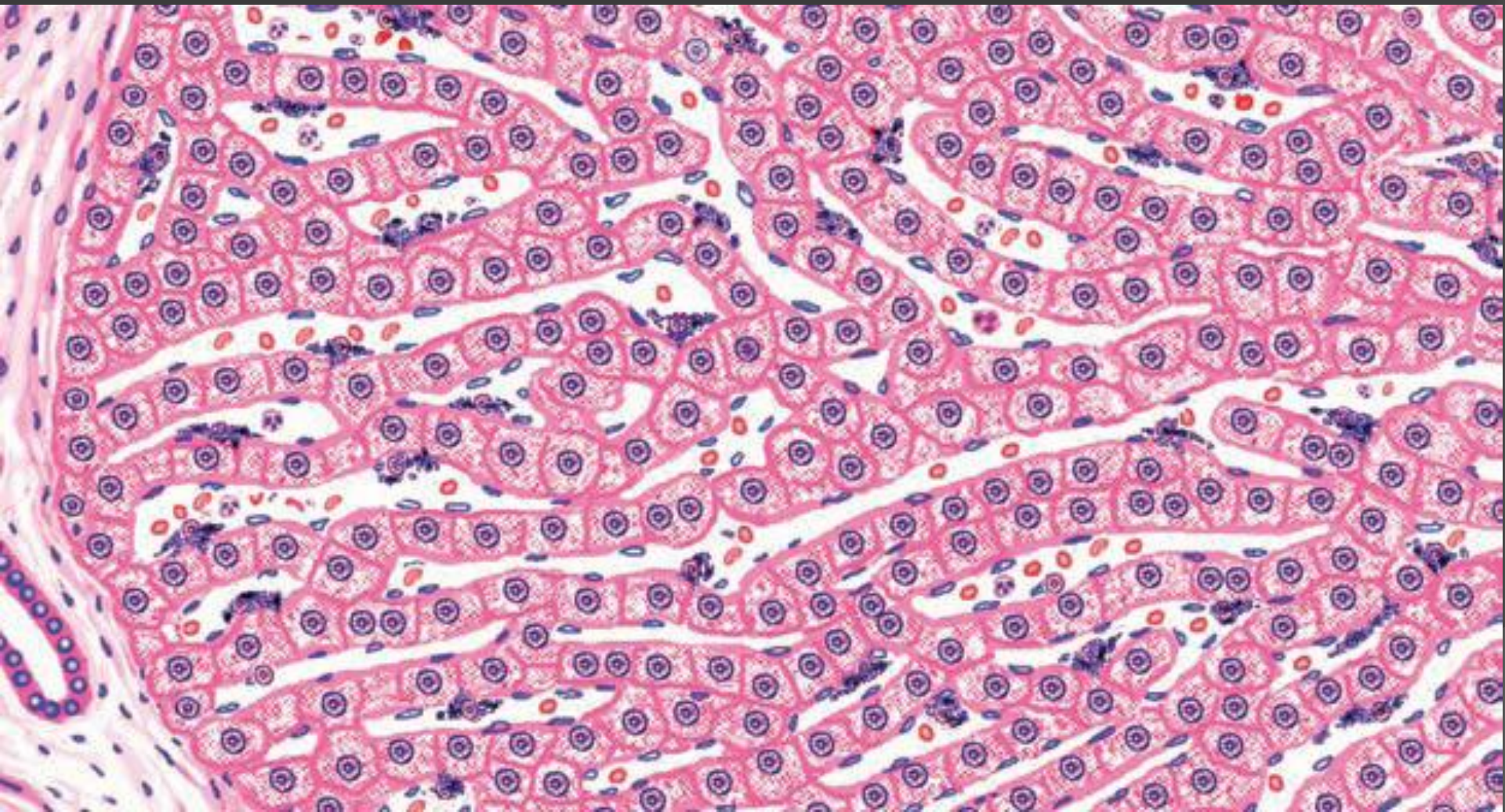




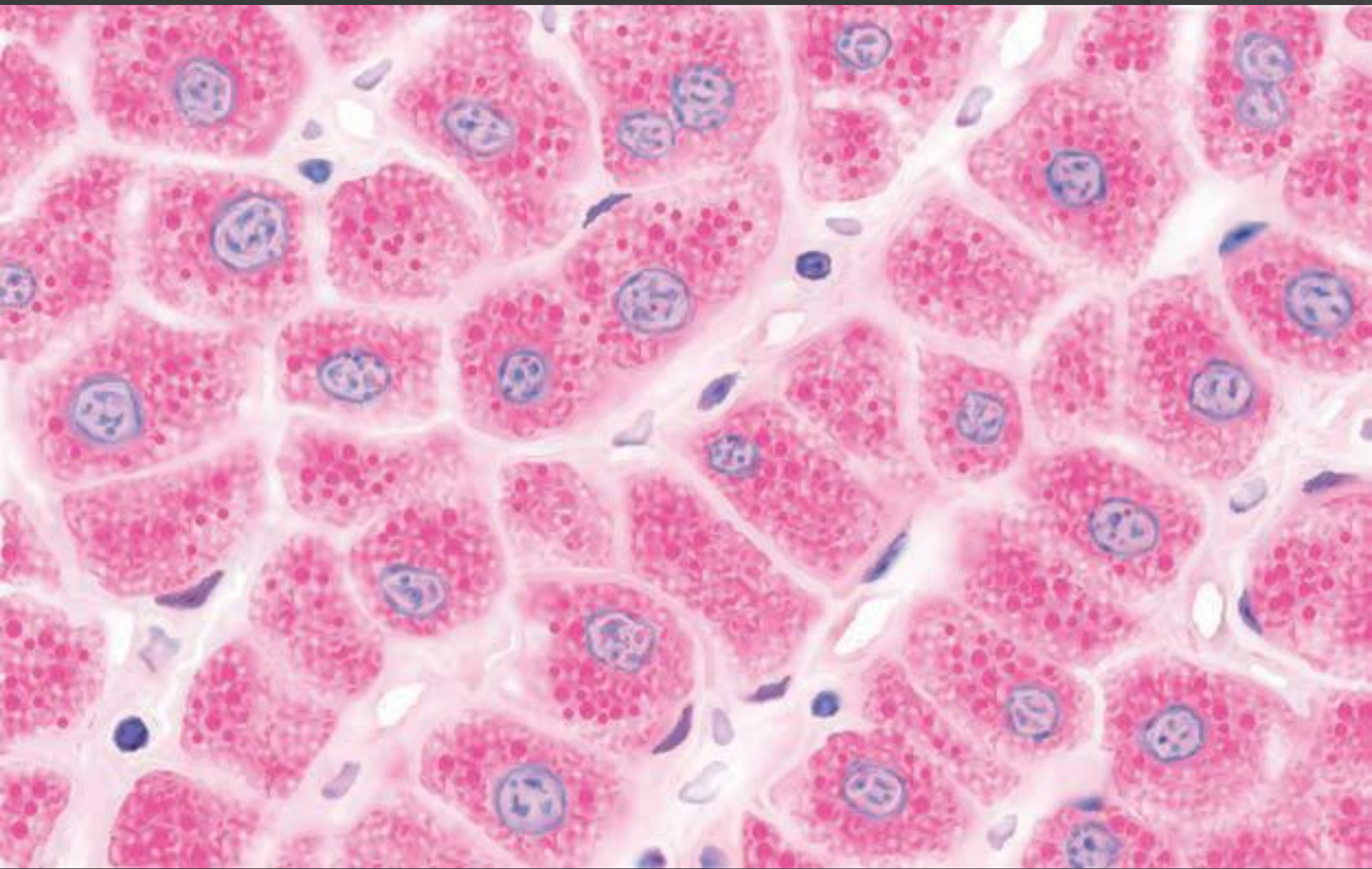




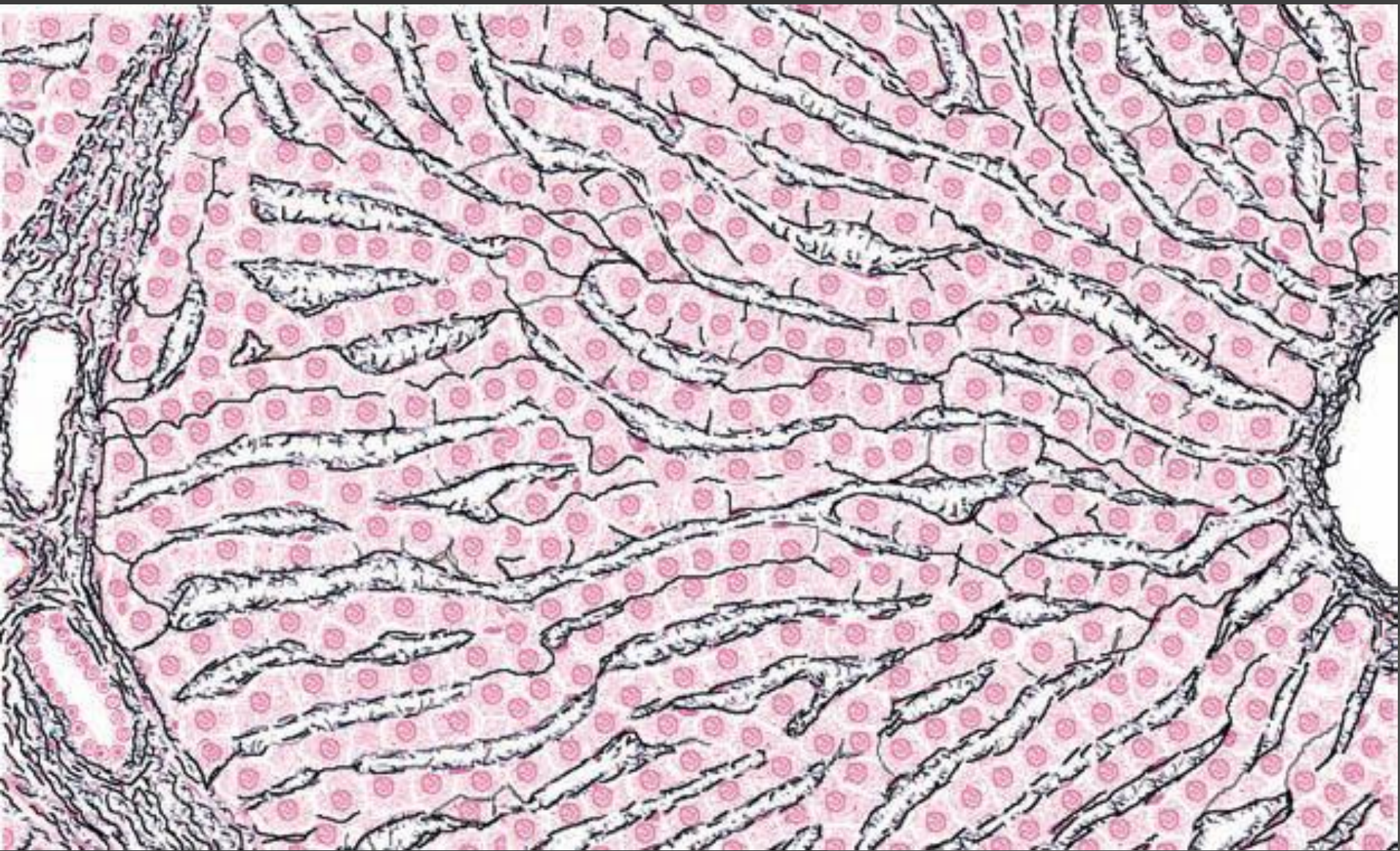














# Liver lobules

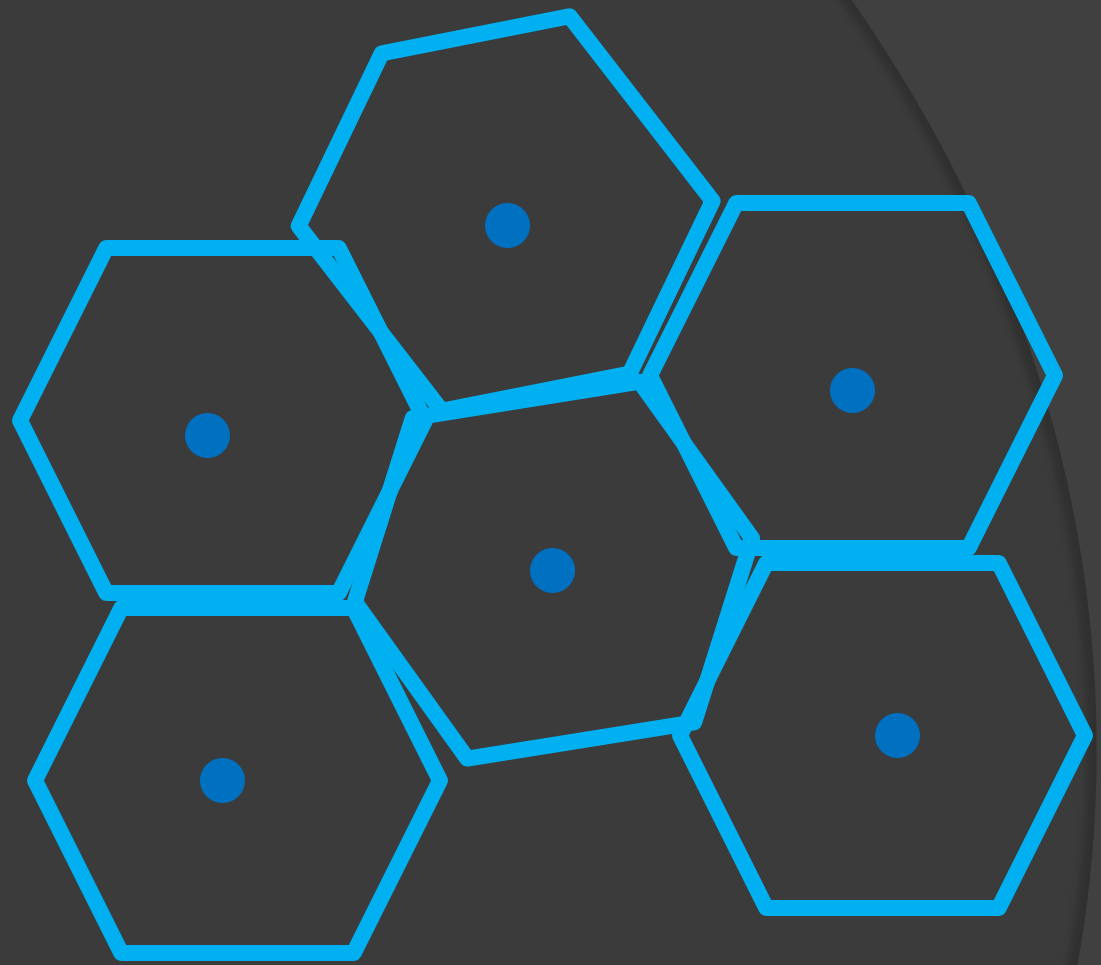


pathological

Portal

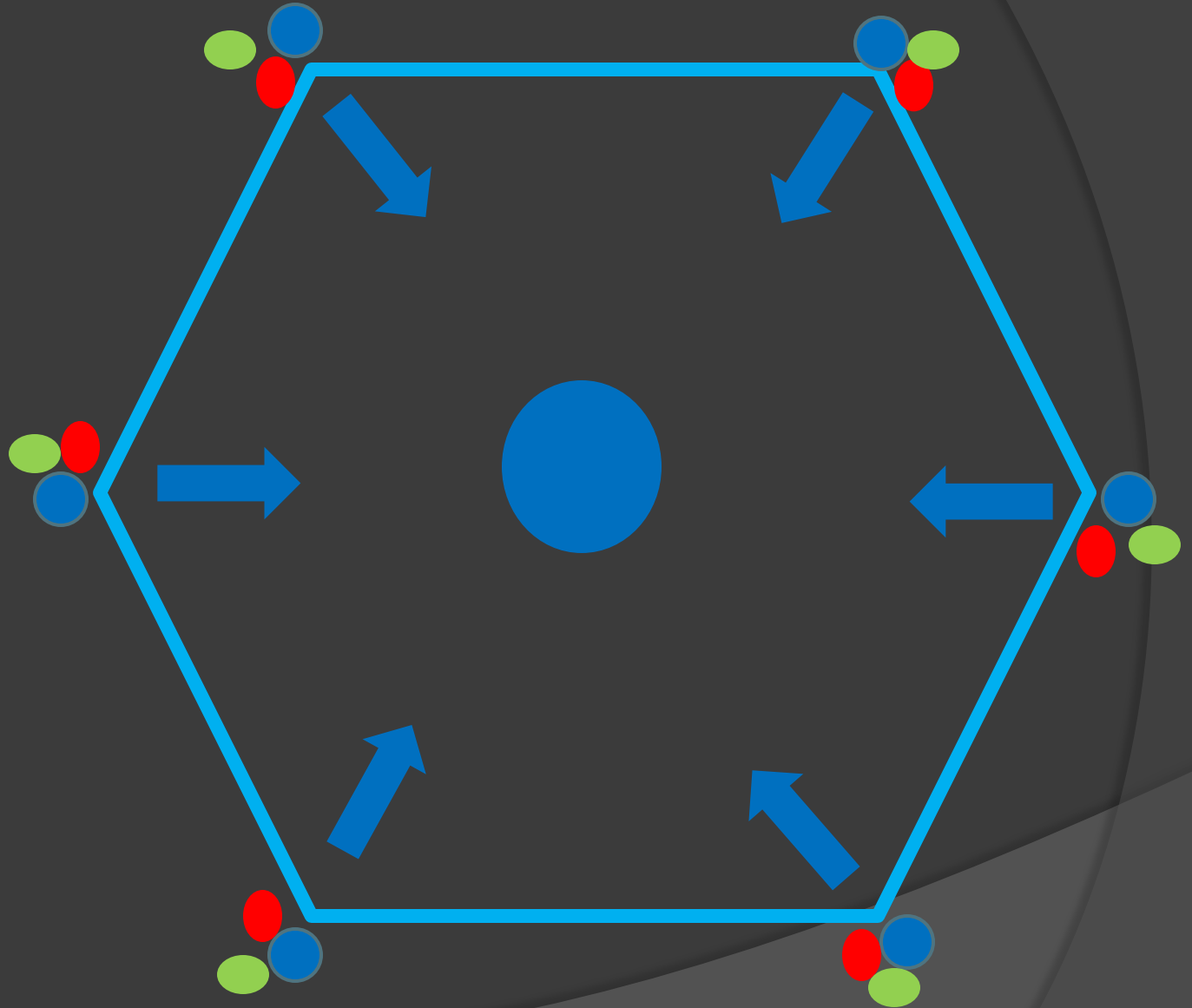
Classical







Classical  
Lobule:  
outlined by  
connective  
tissue; not in  
humans.



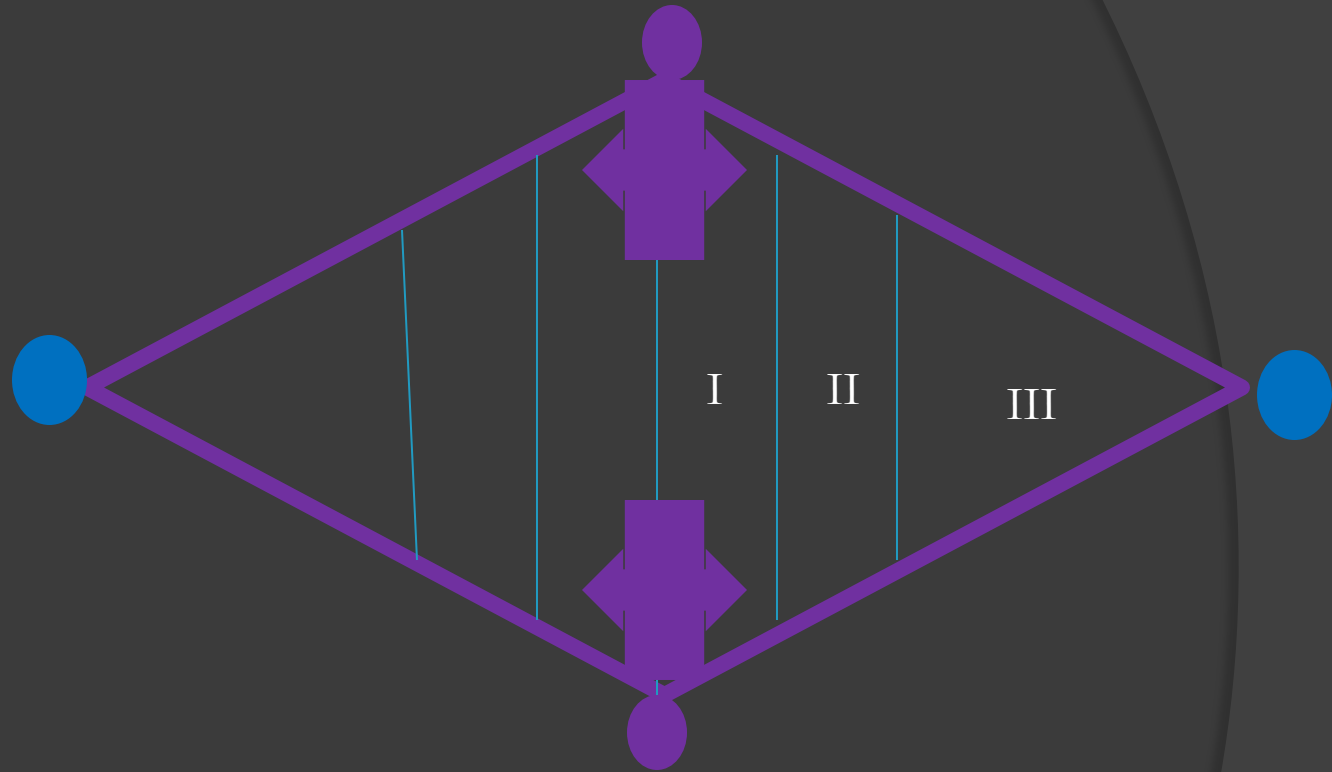


## Portal Lobule:

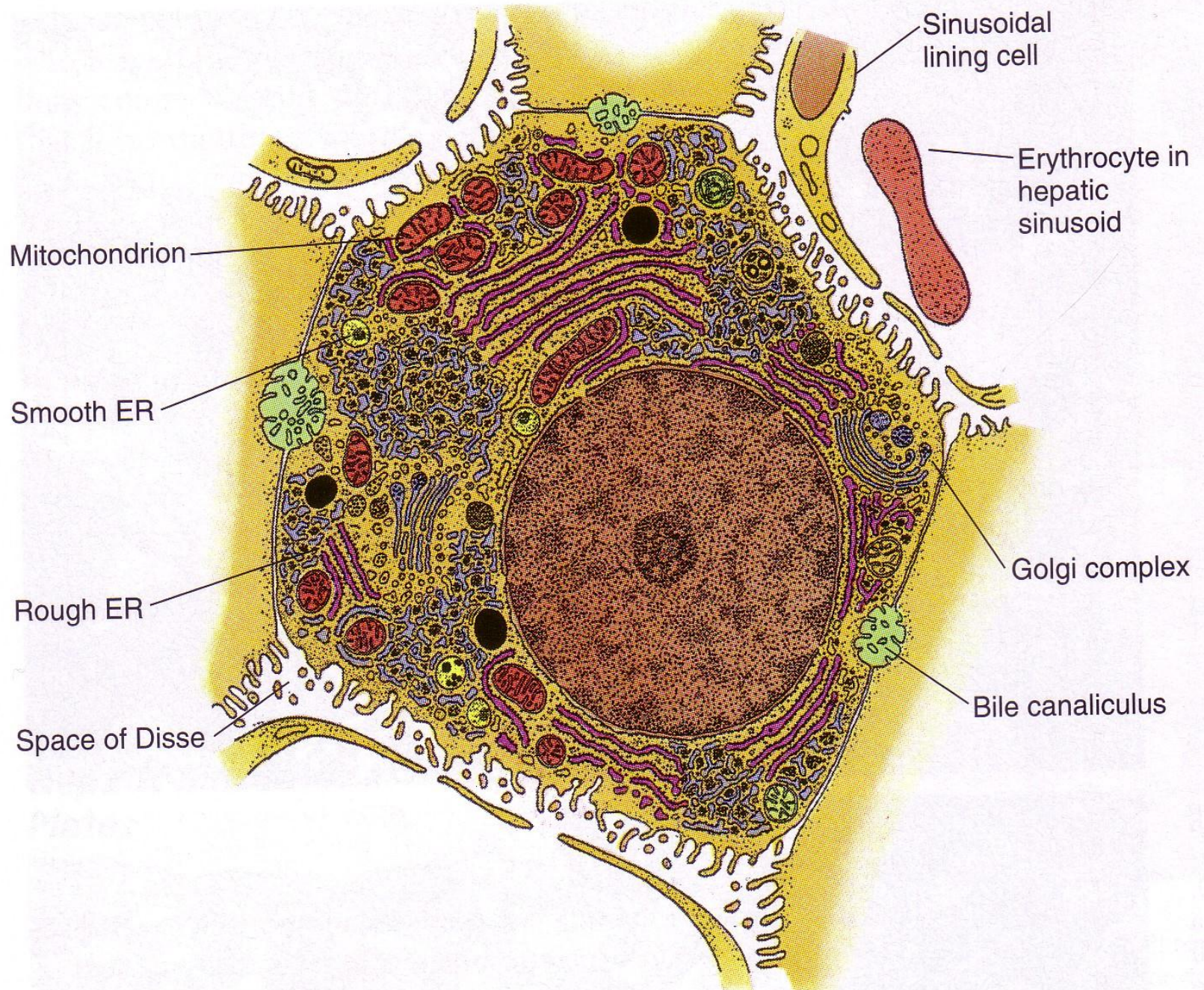
Based on bile drainage from adjacent liver cells; appears triangular with heads of the triangle are central veins.



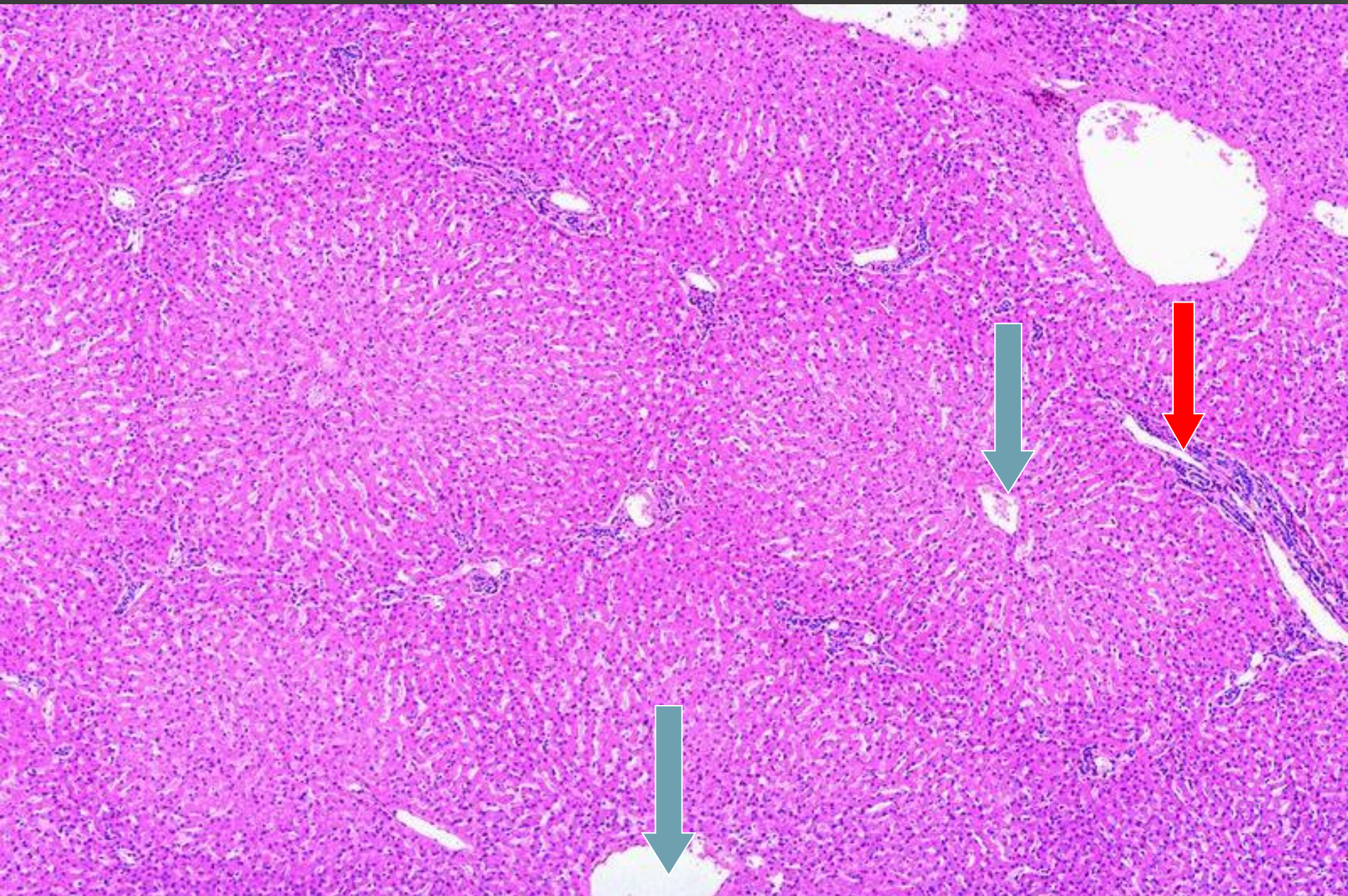
Hepatic  
acinus (of  
Rappaport):  
based on the  
blood flow  
from  
distributing  
vessels.



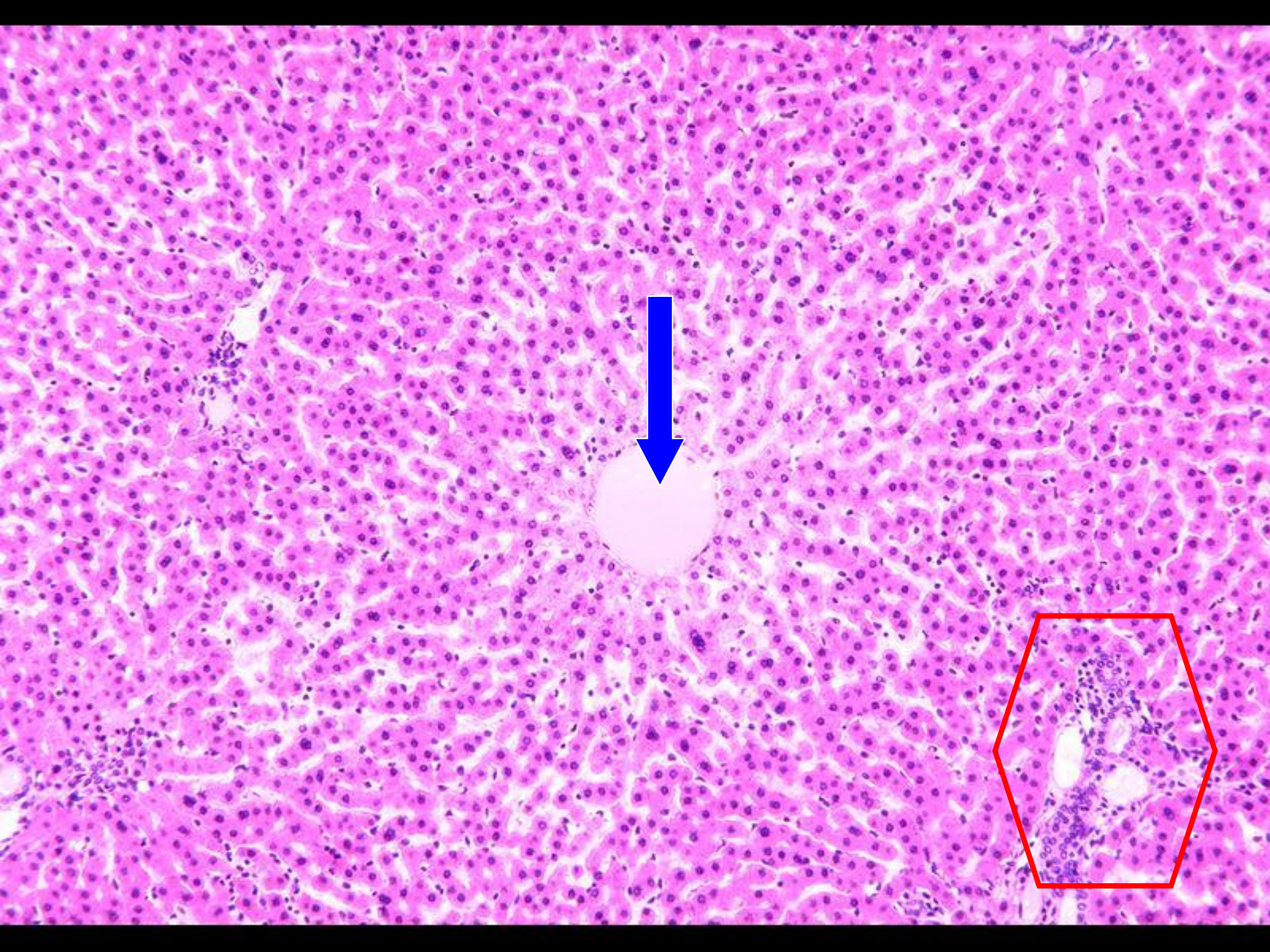




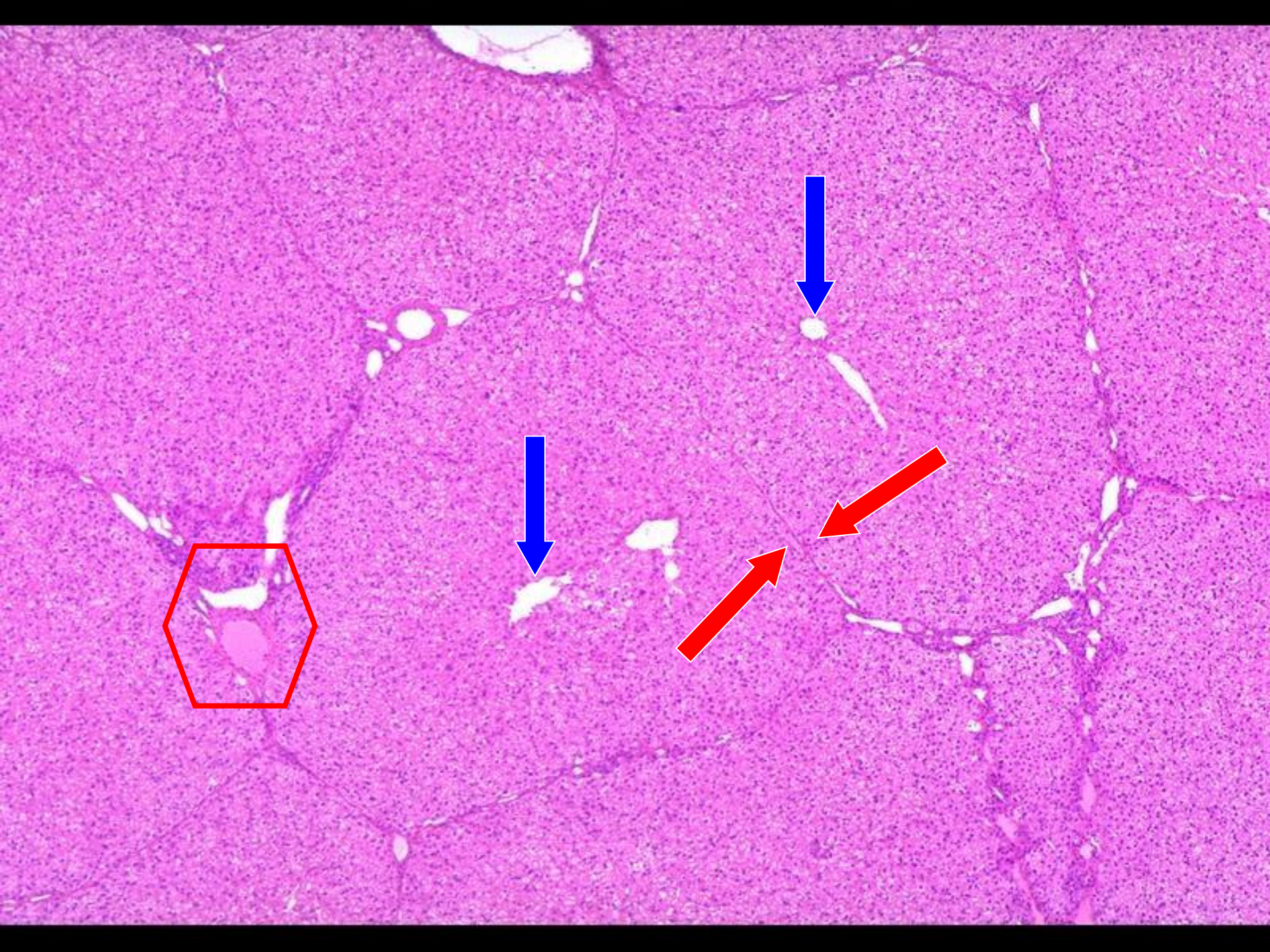




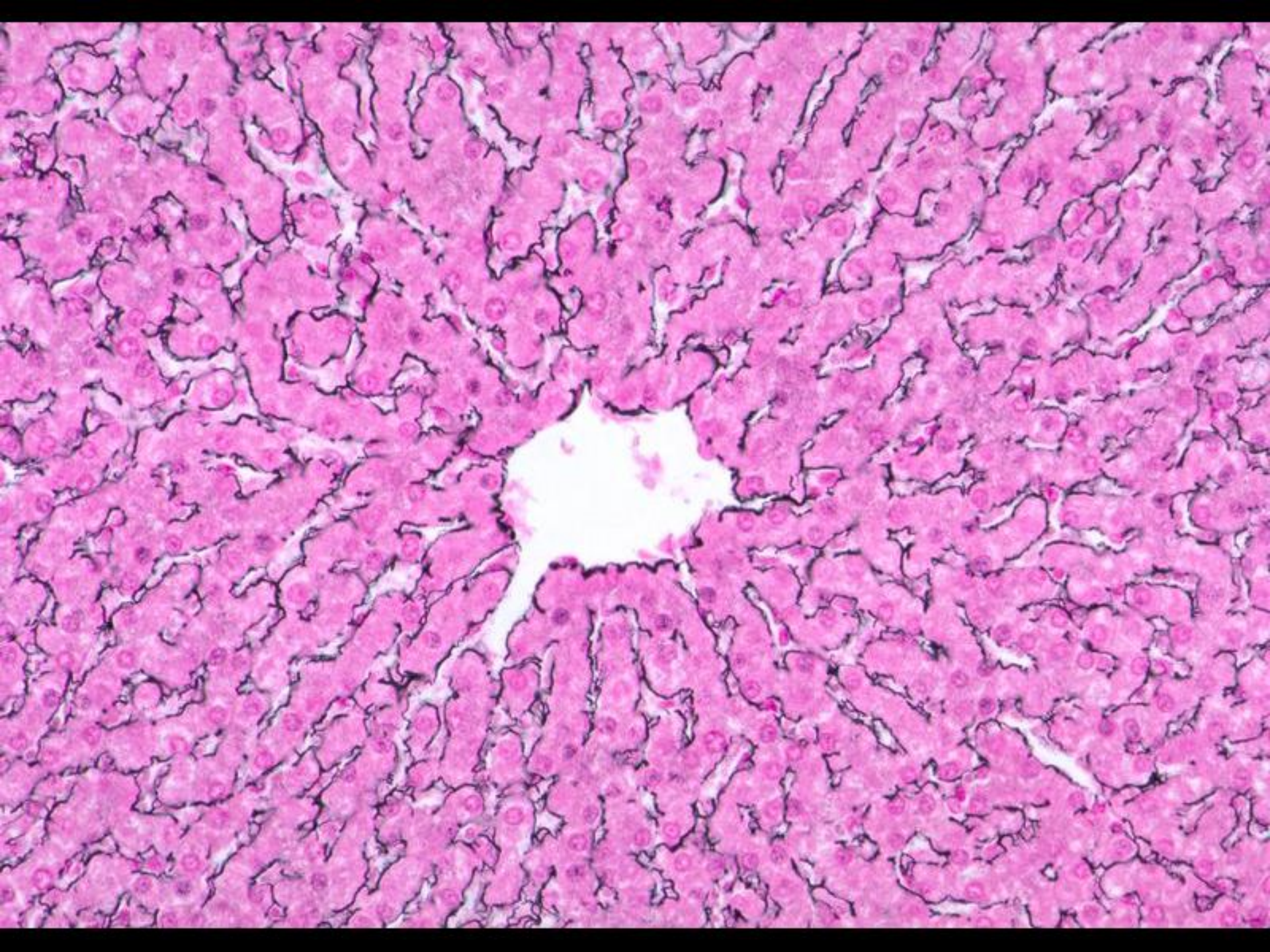




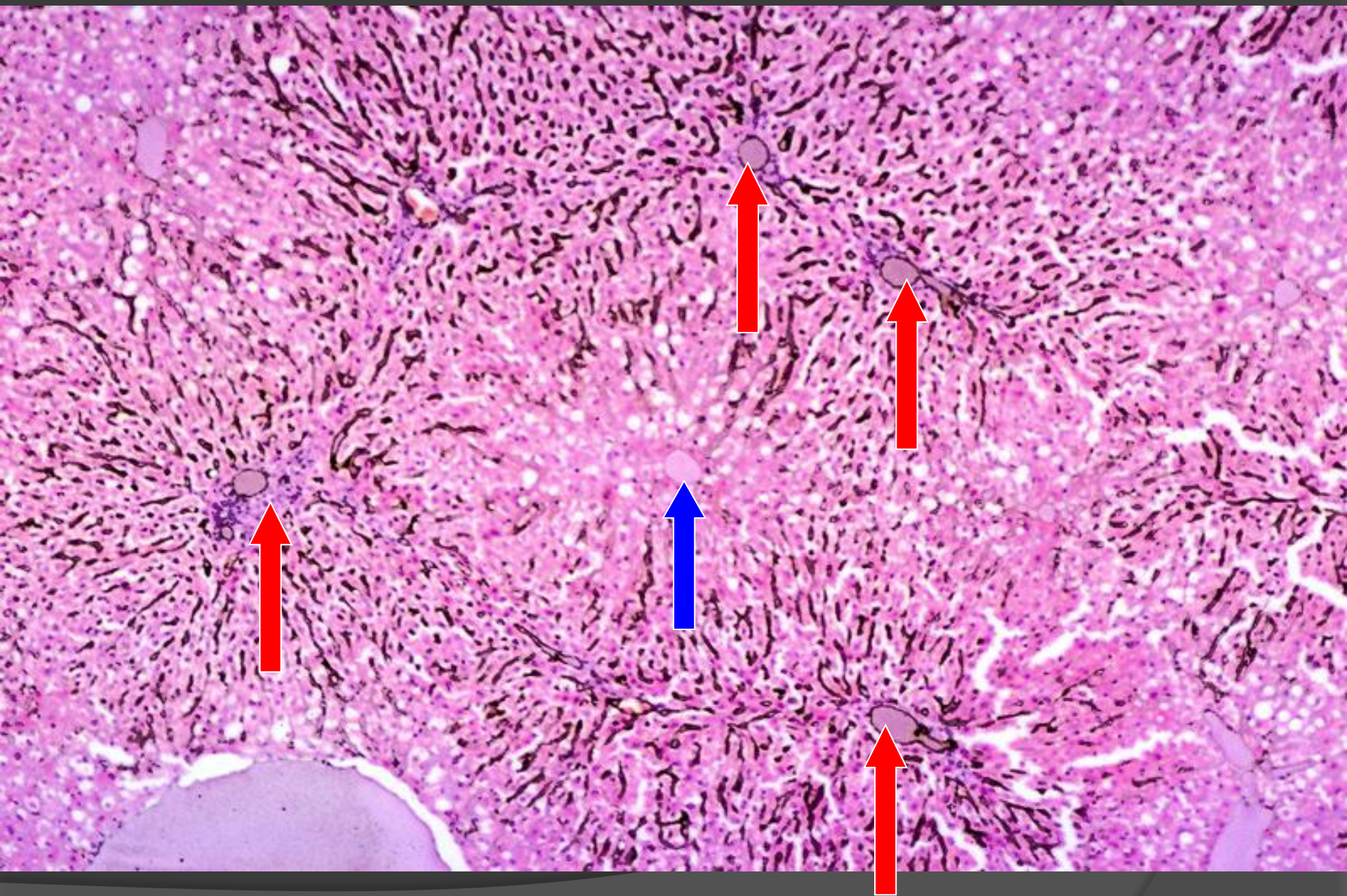




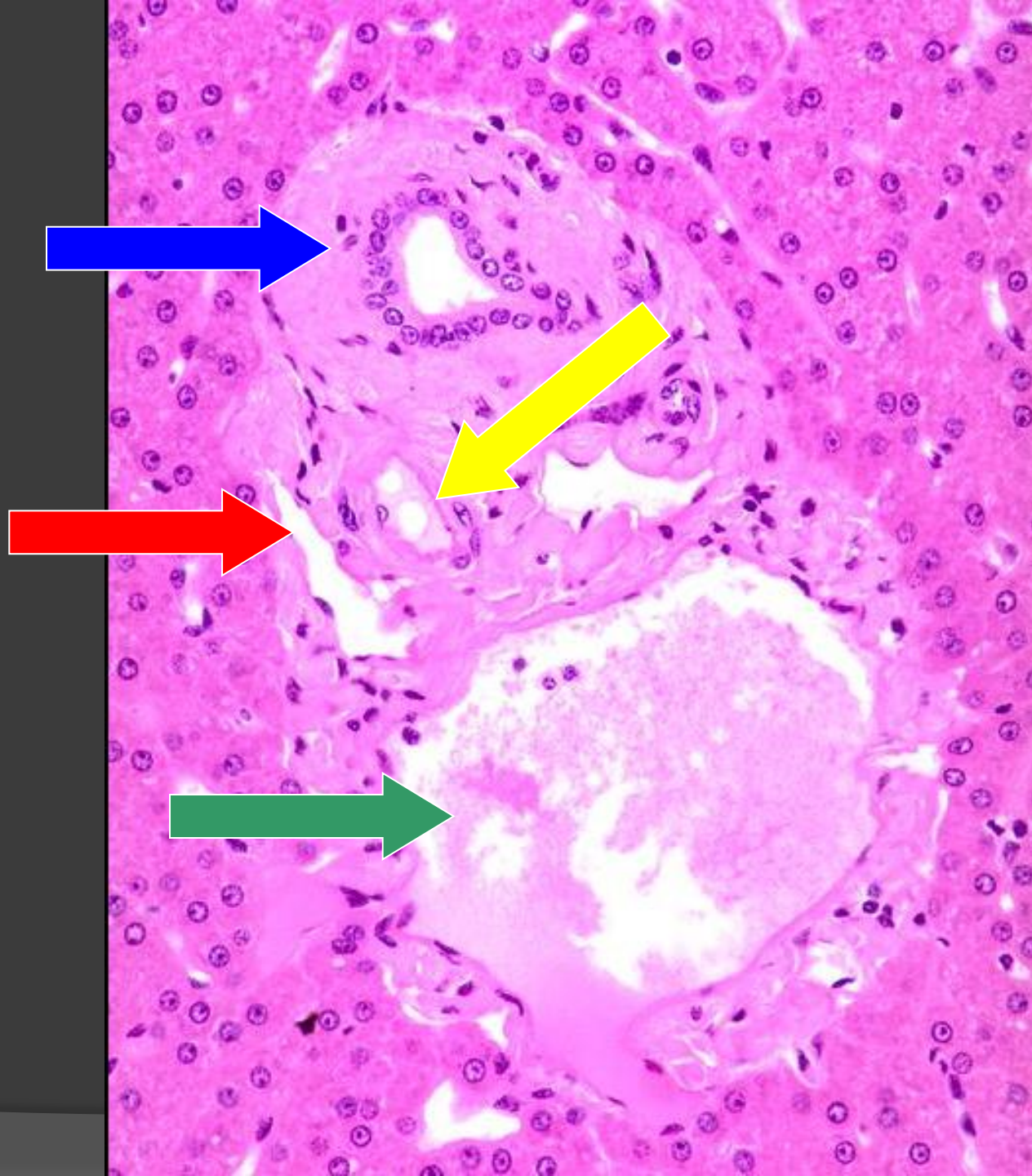




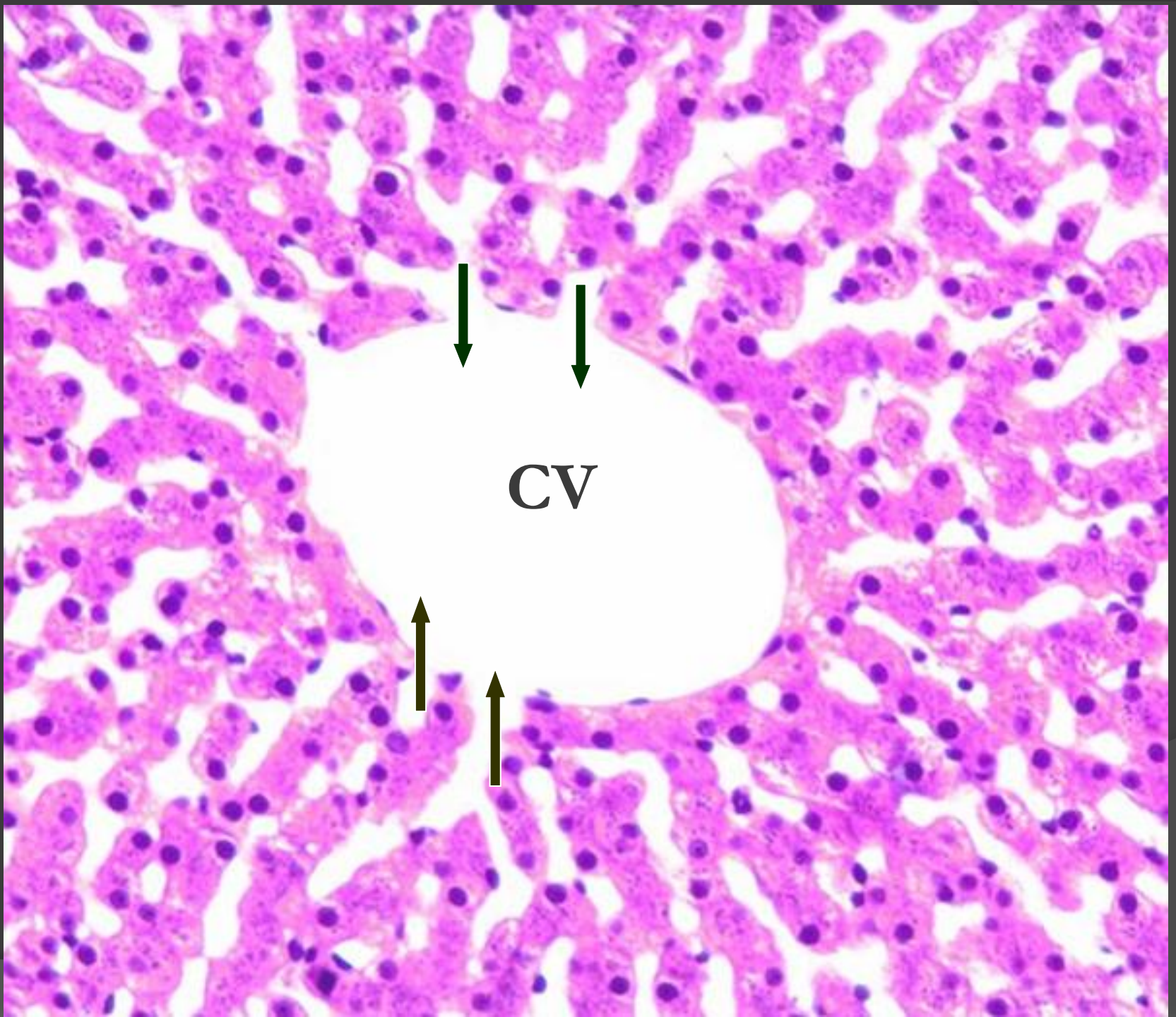




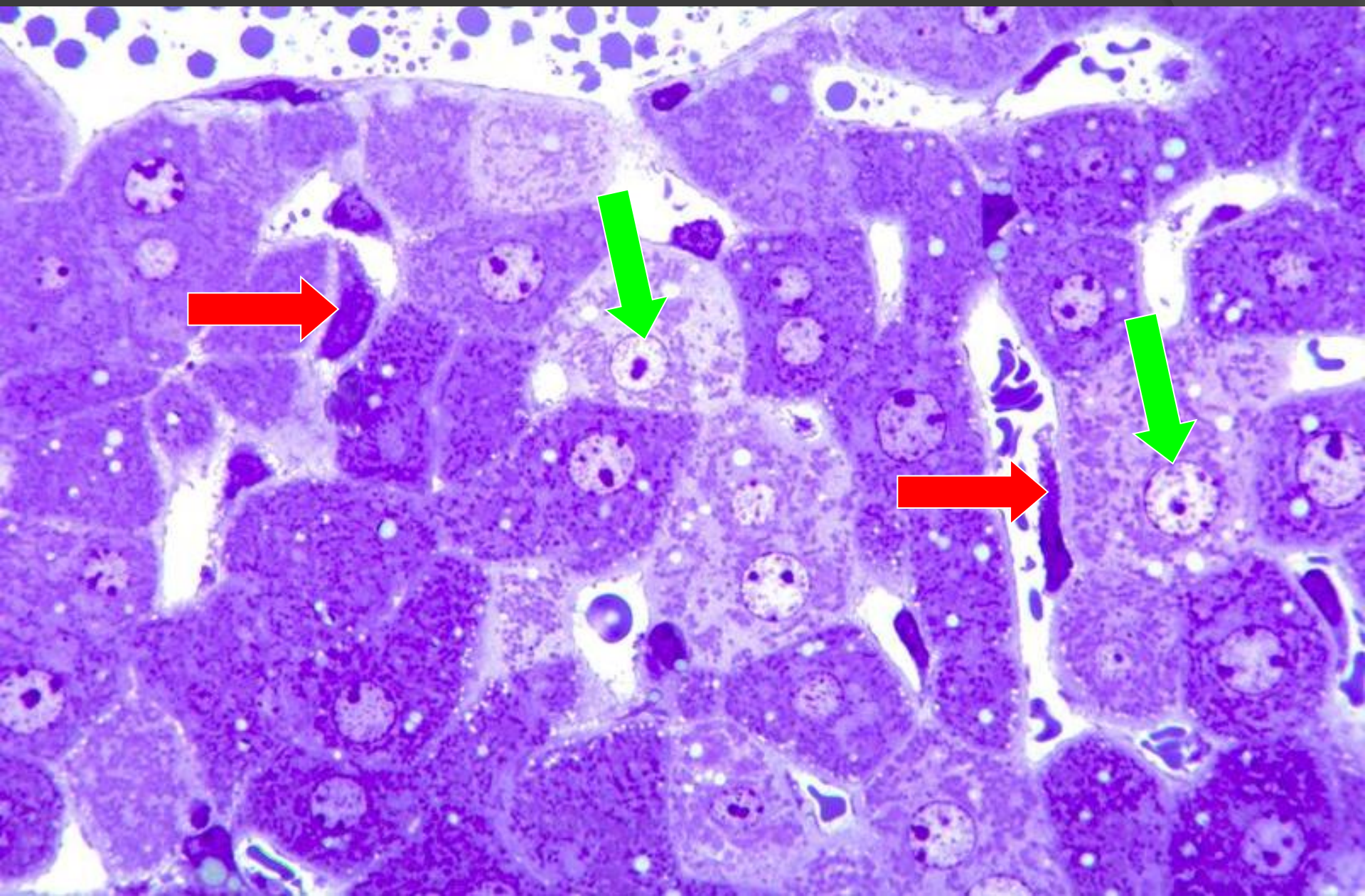




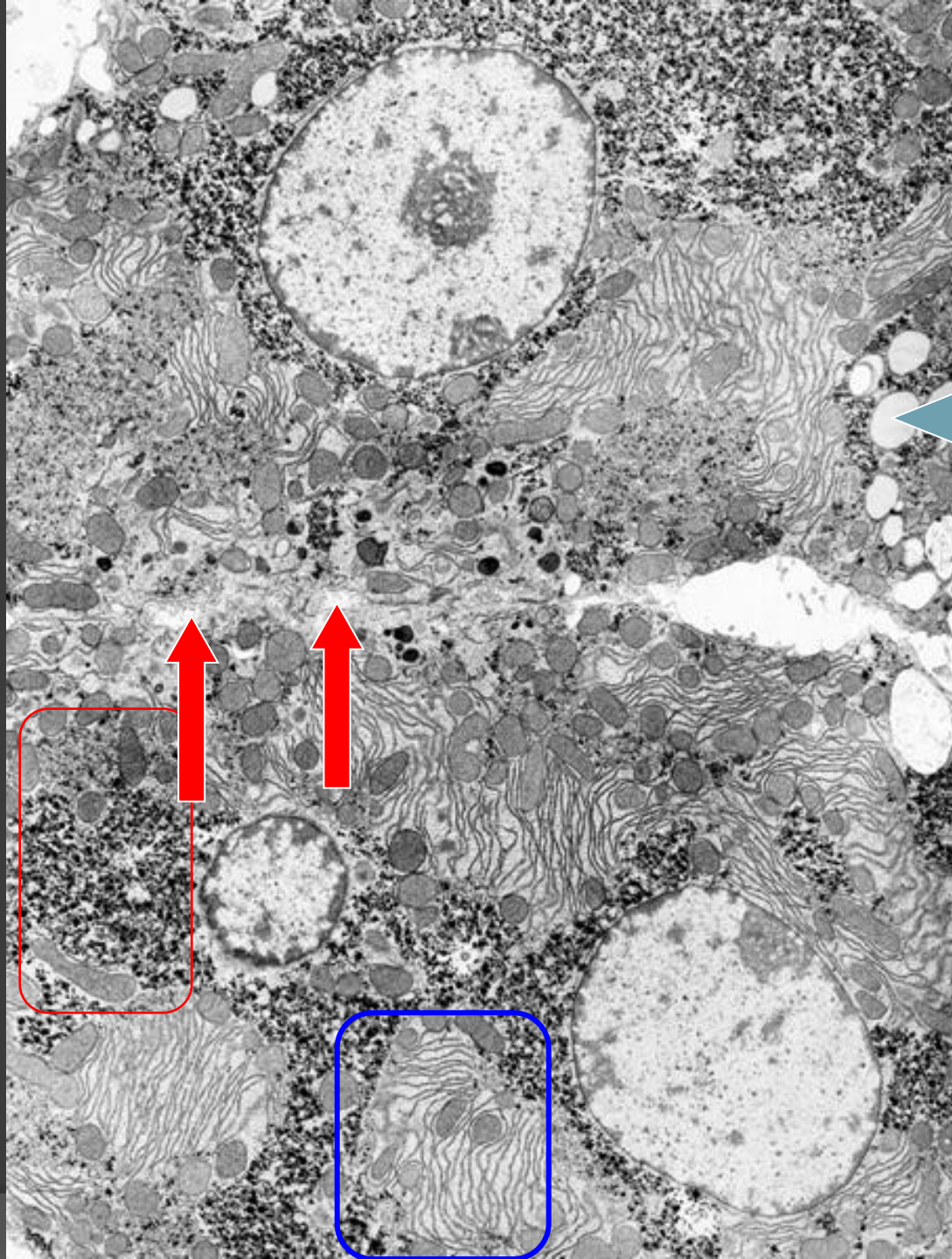




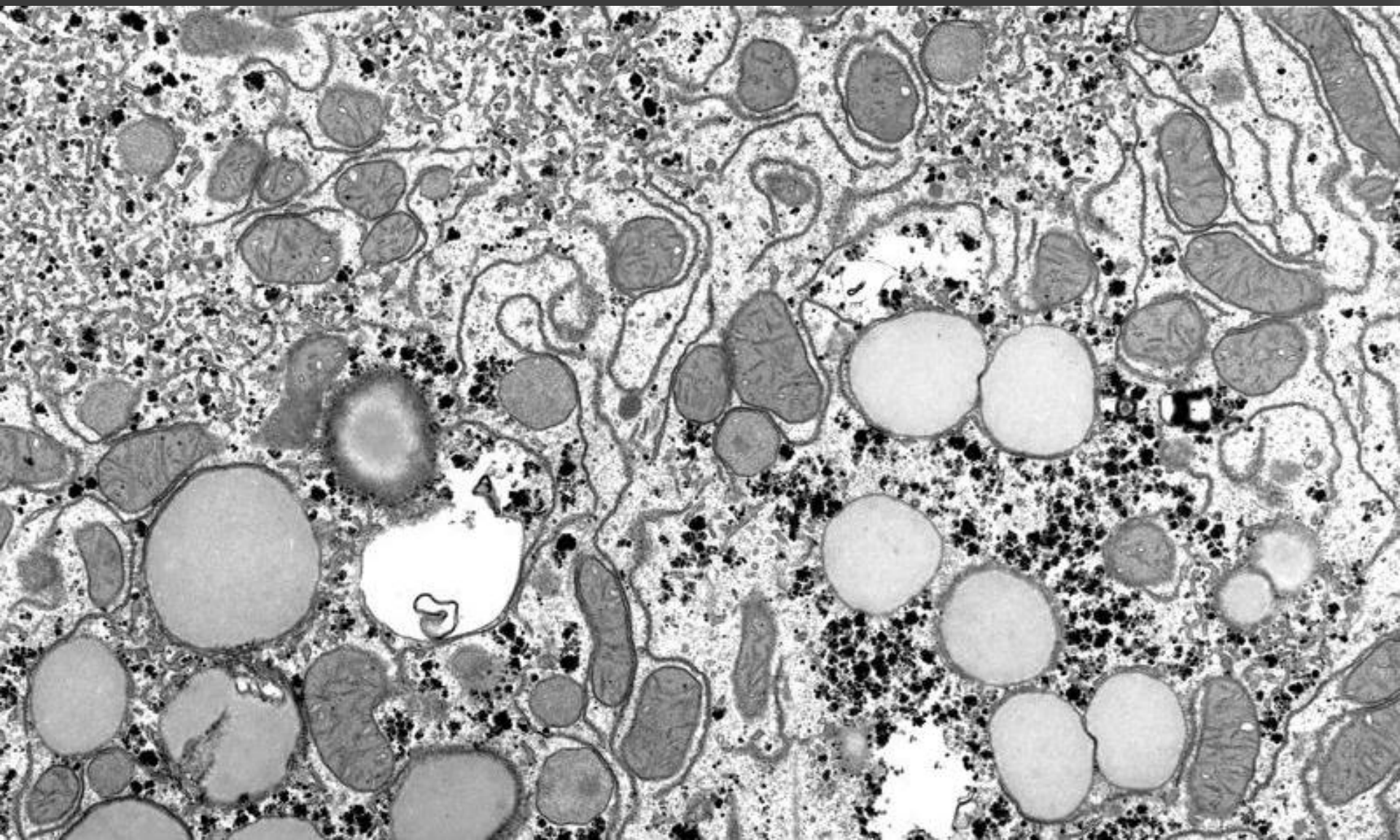














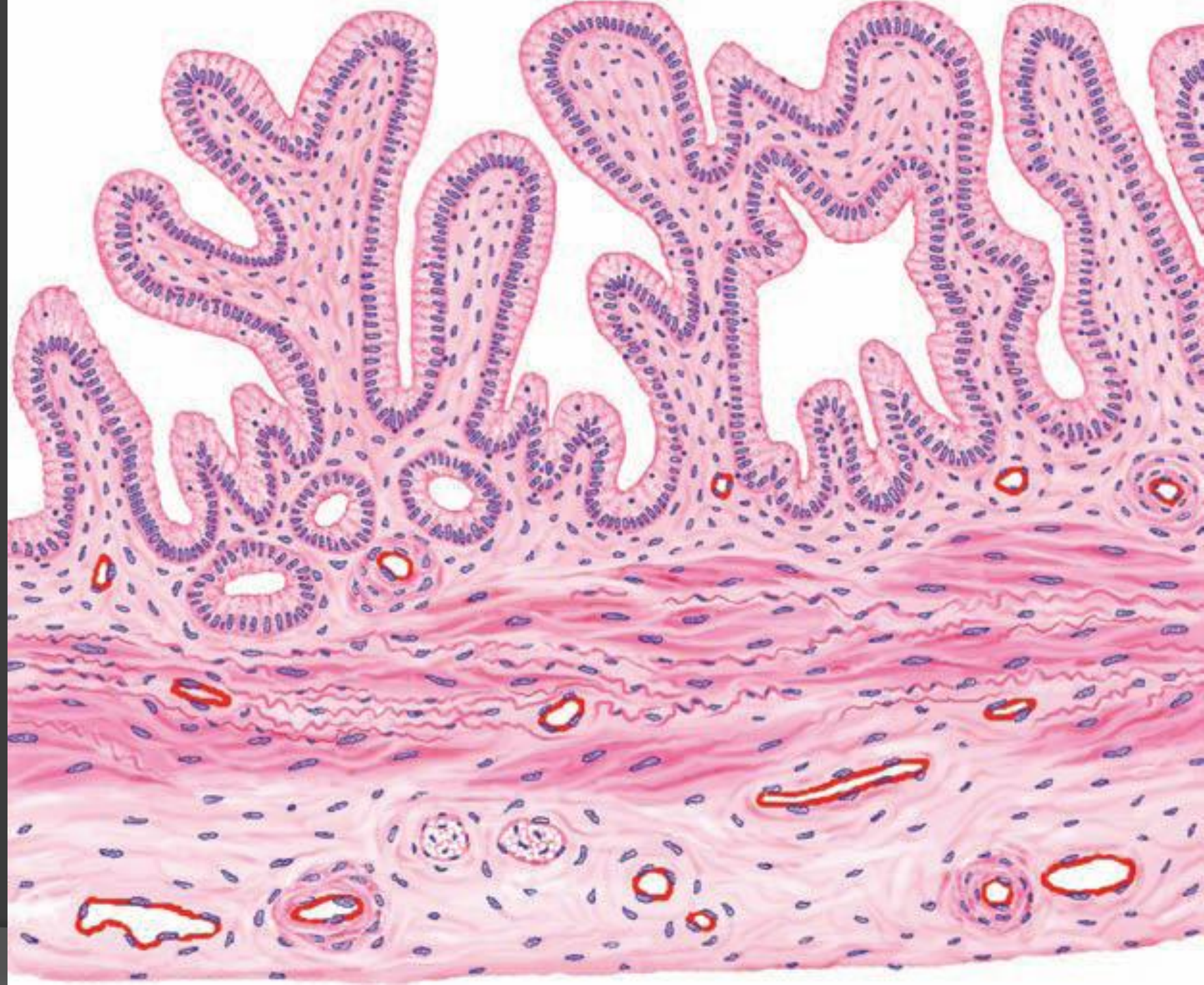




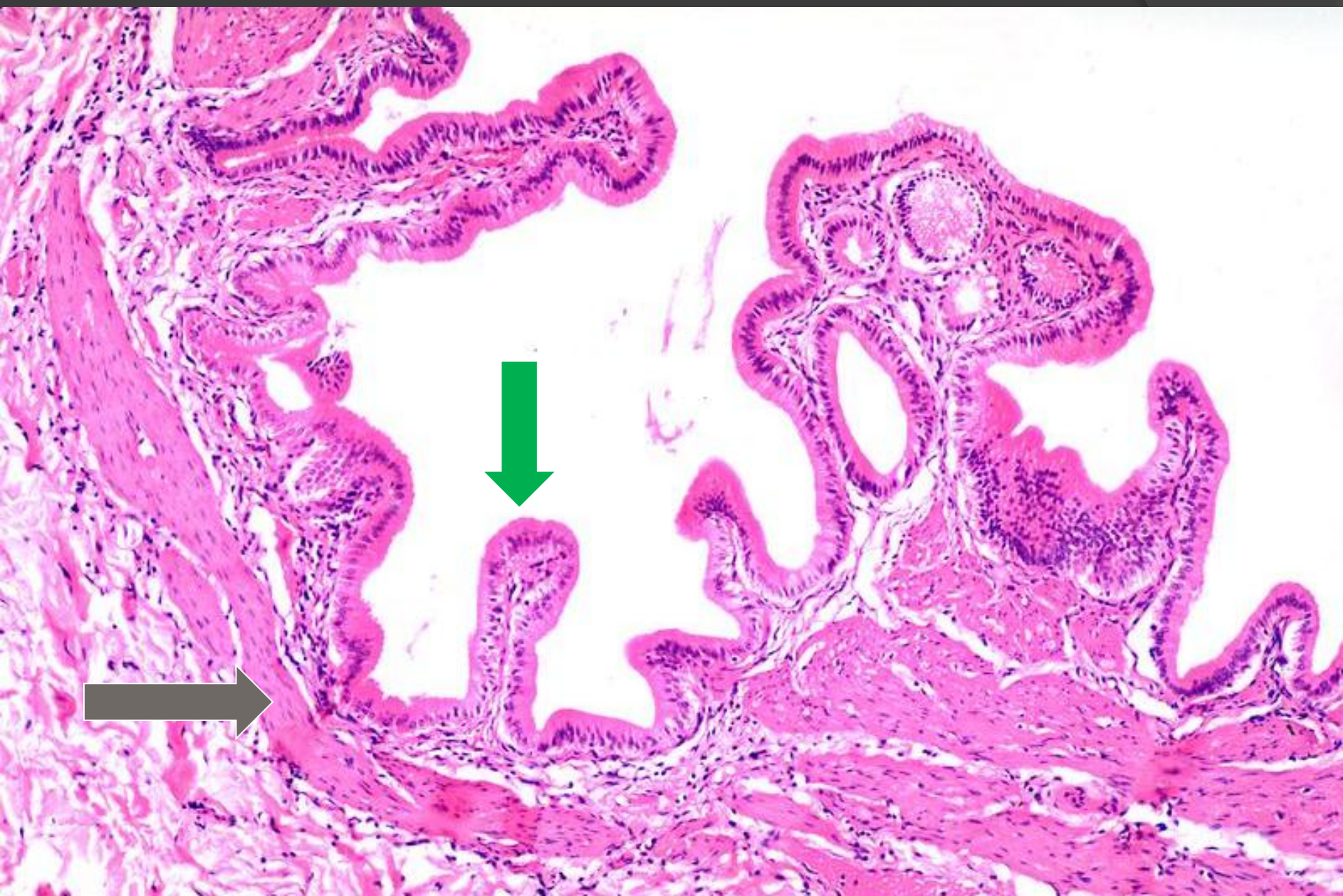


# **Gall Bladder**

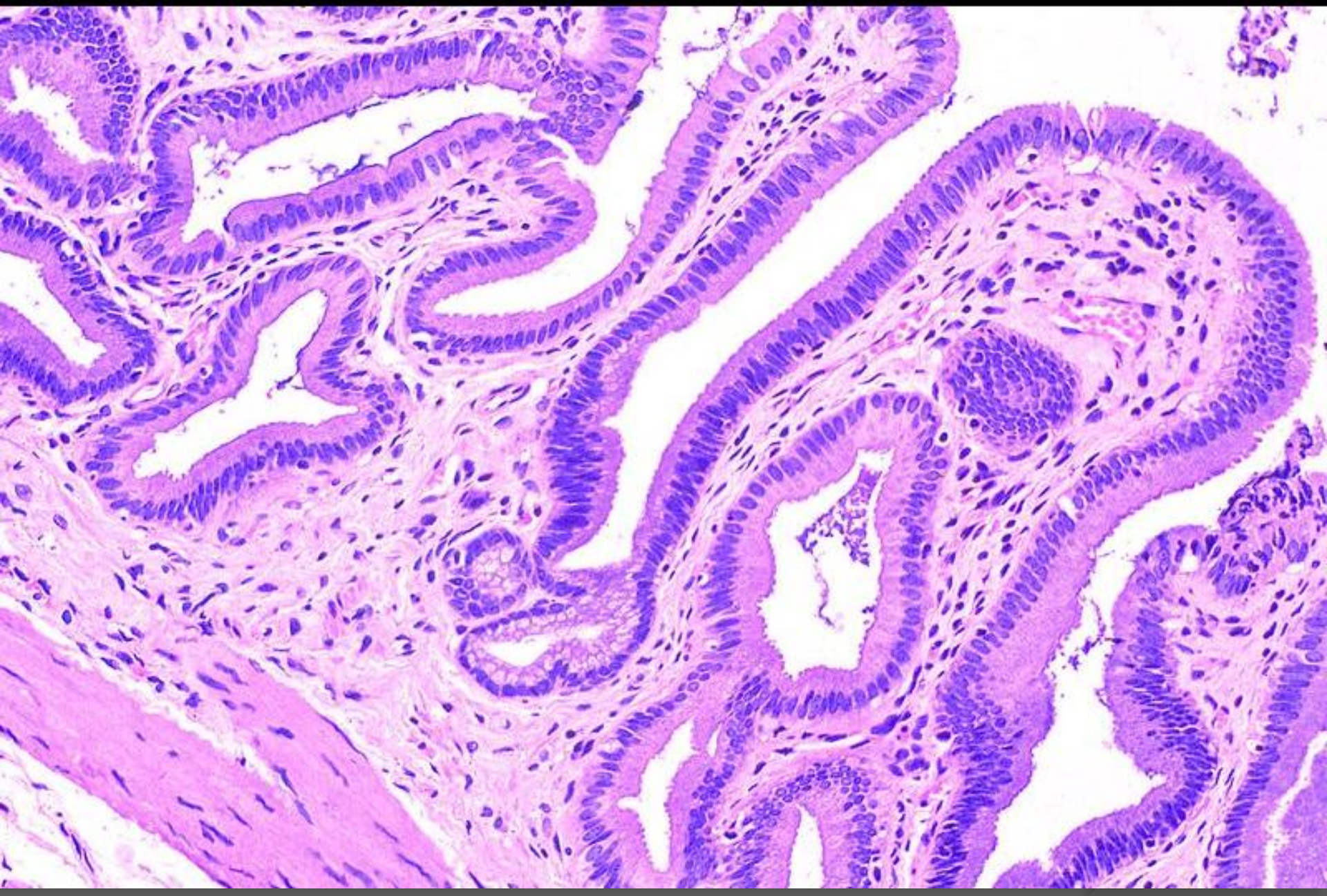














# Rokitansky-Aschoff sinuses

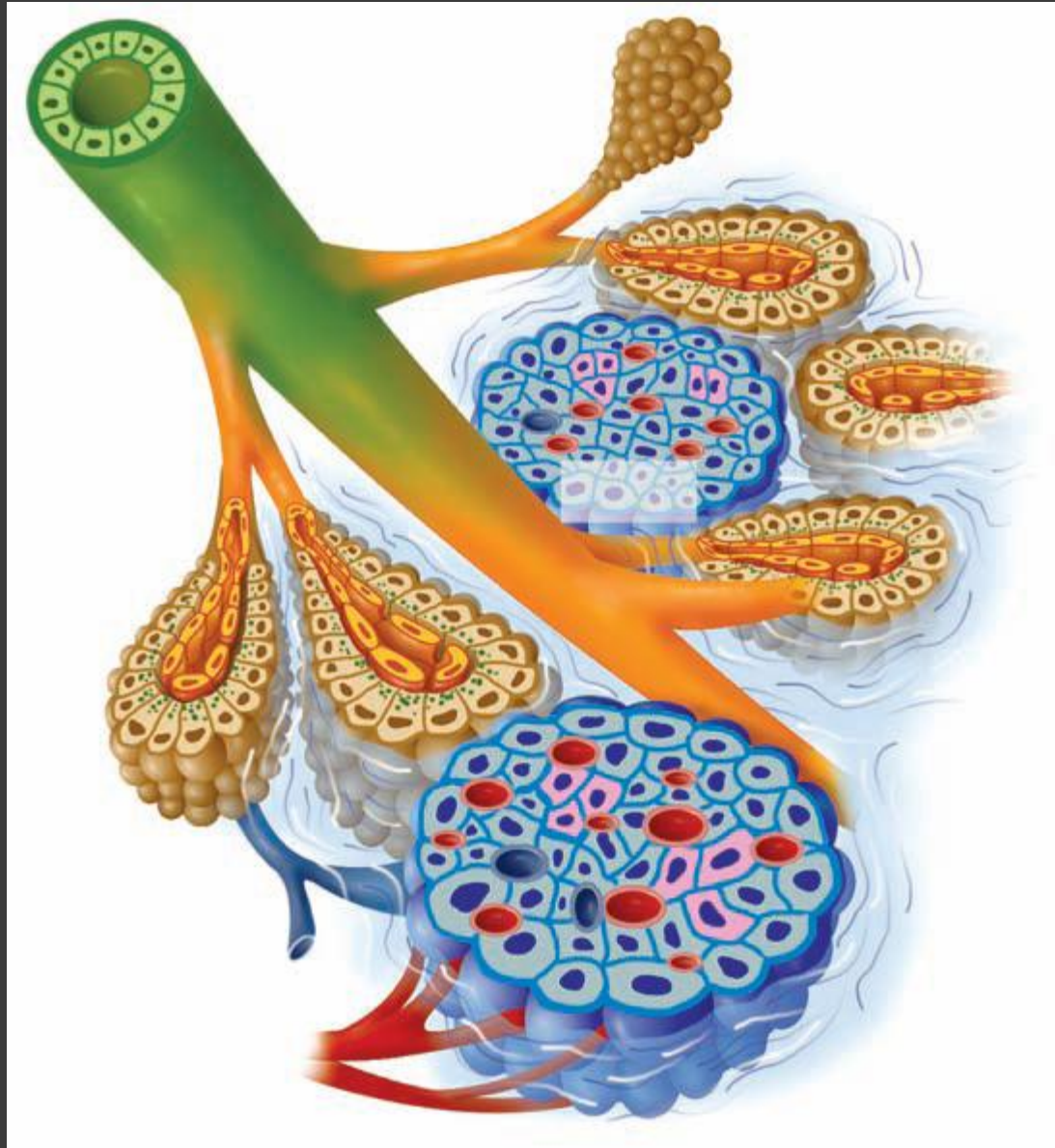




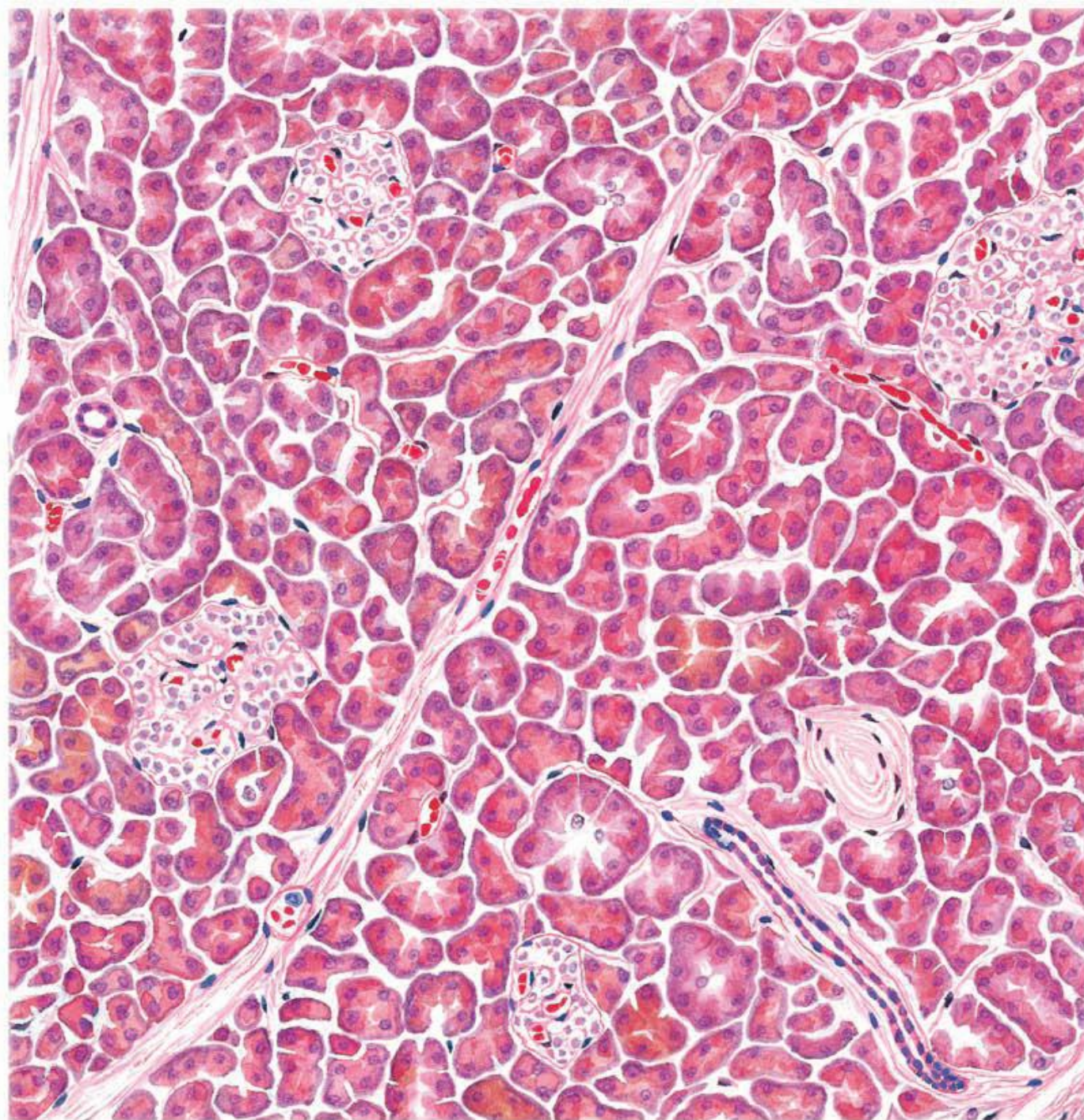


**Pancreas**

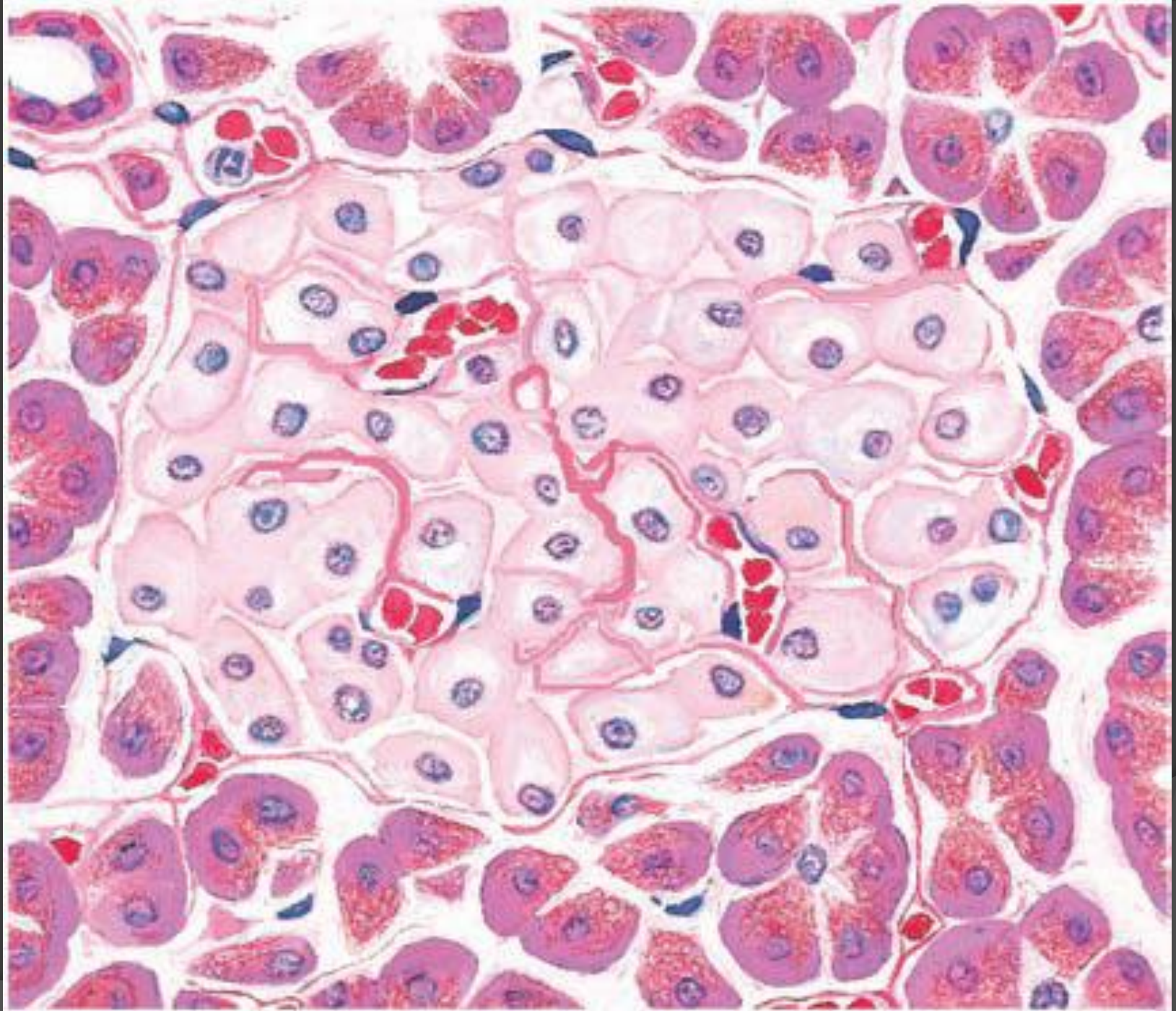




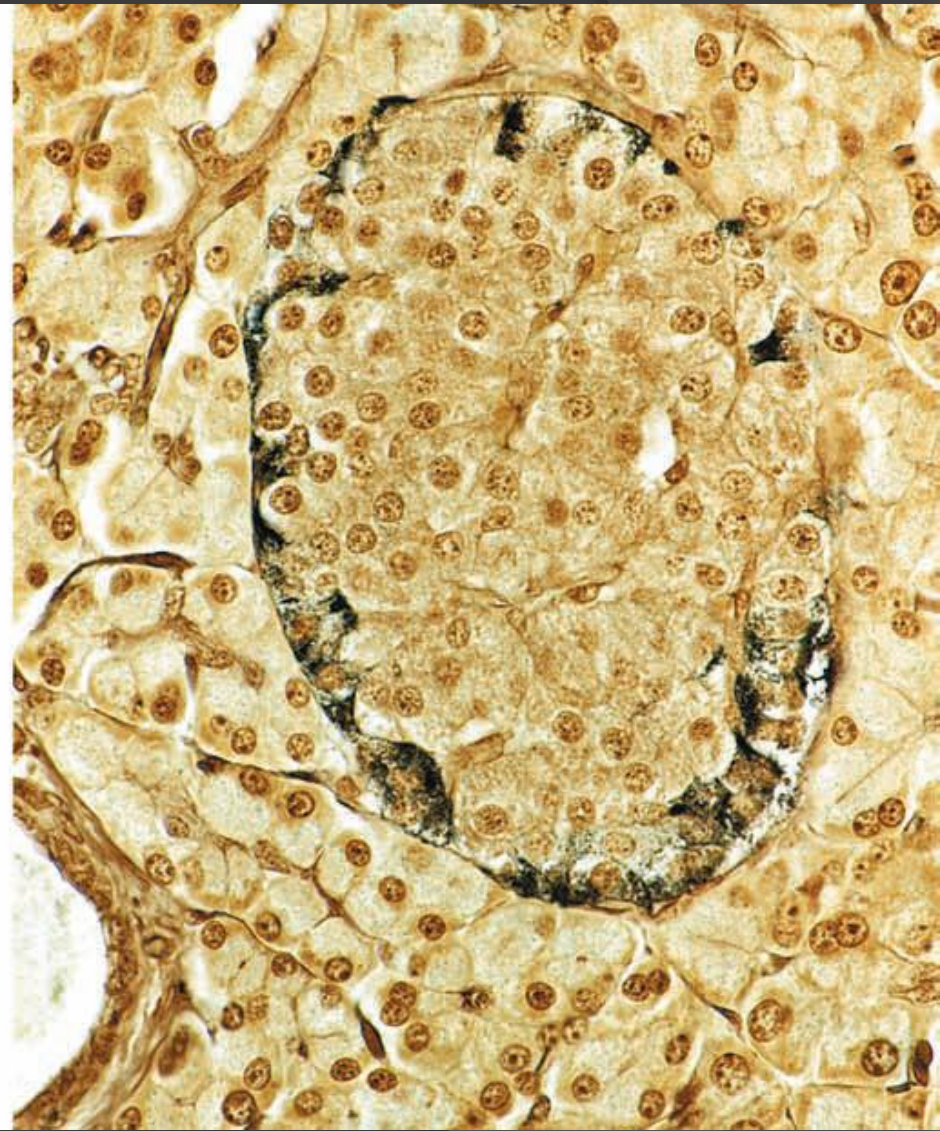
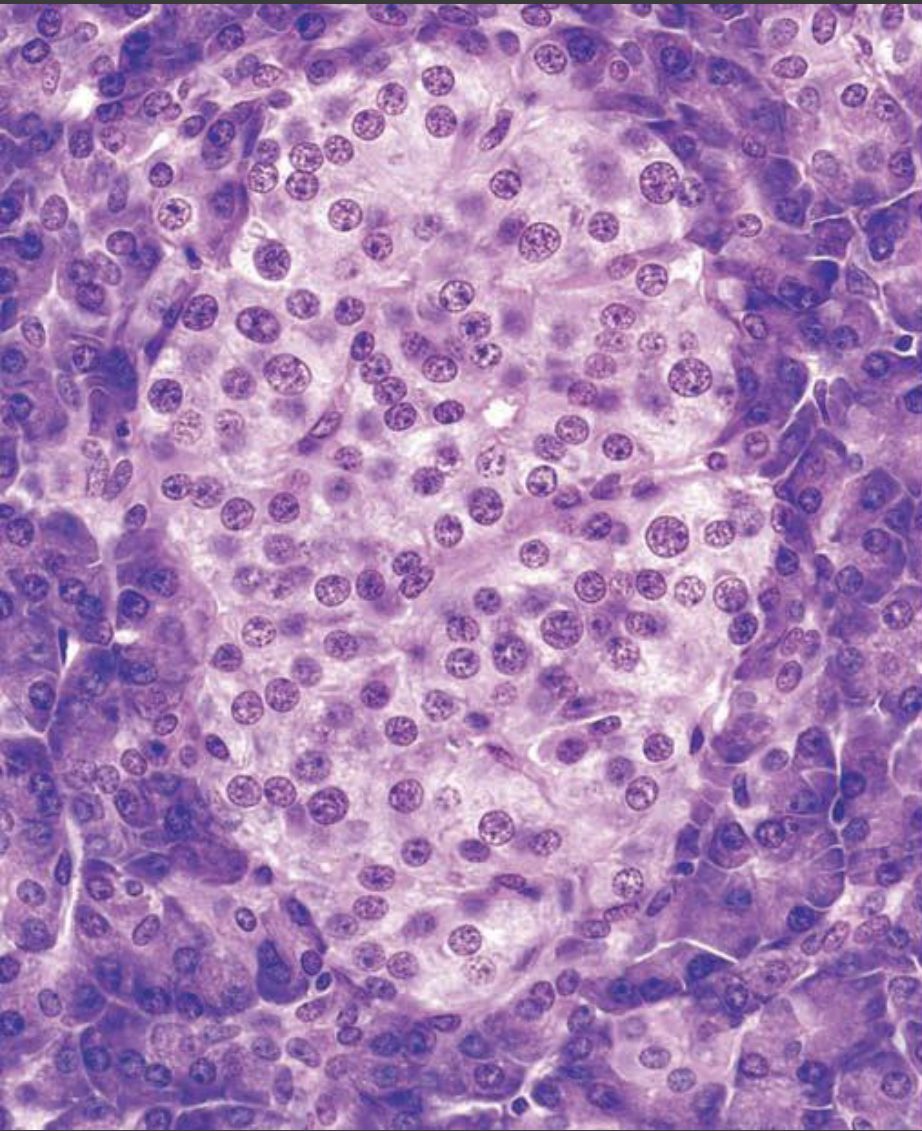






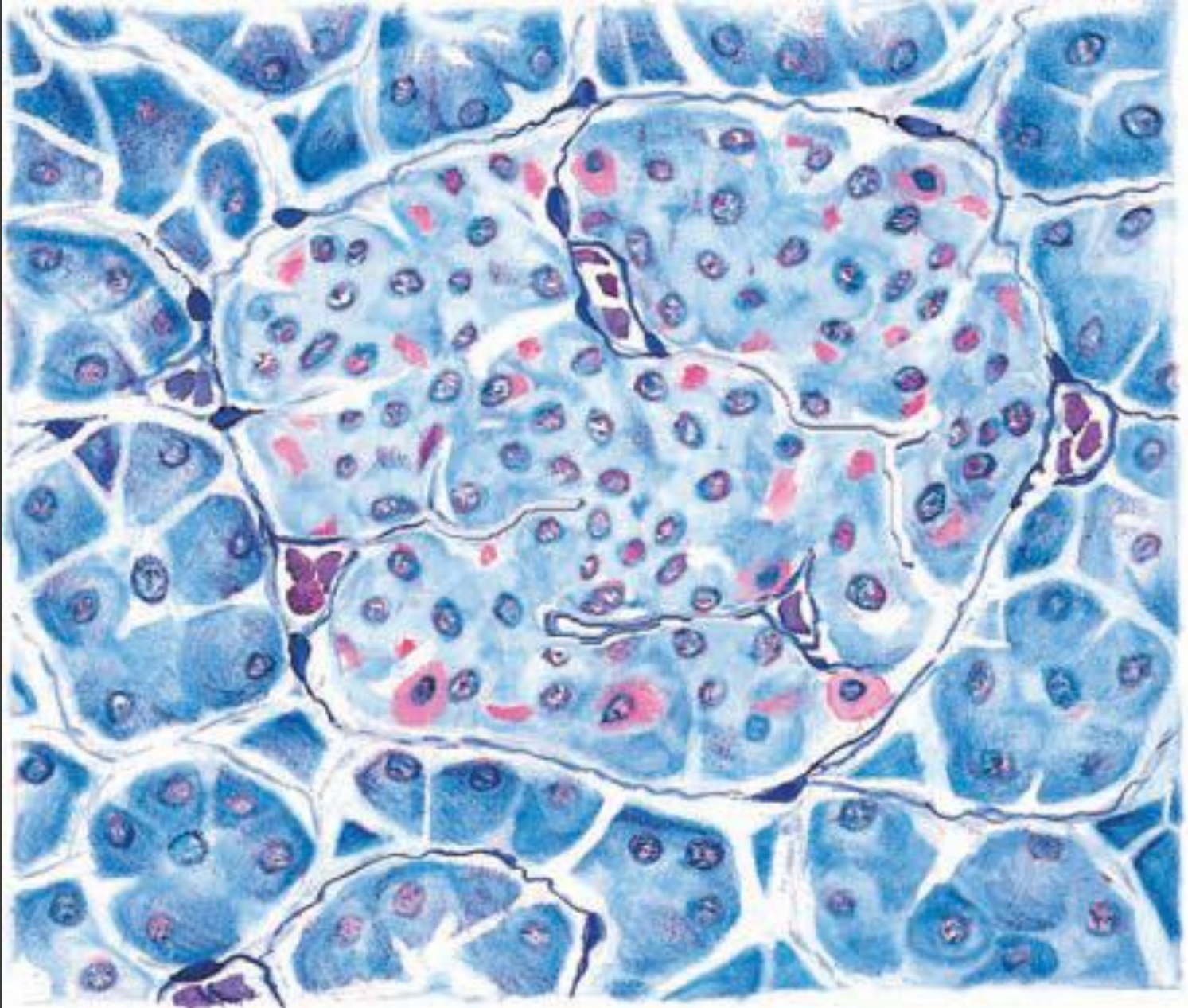






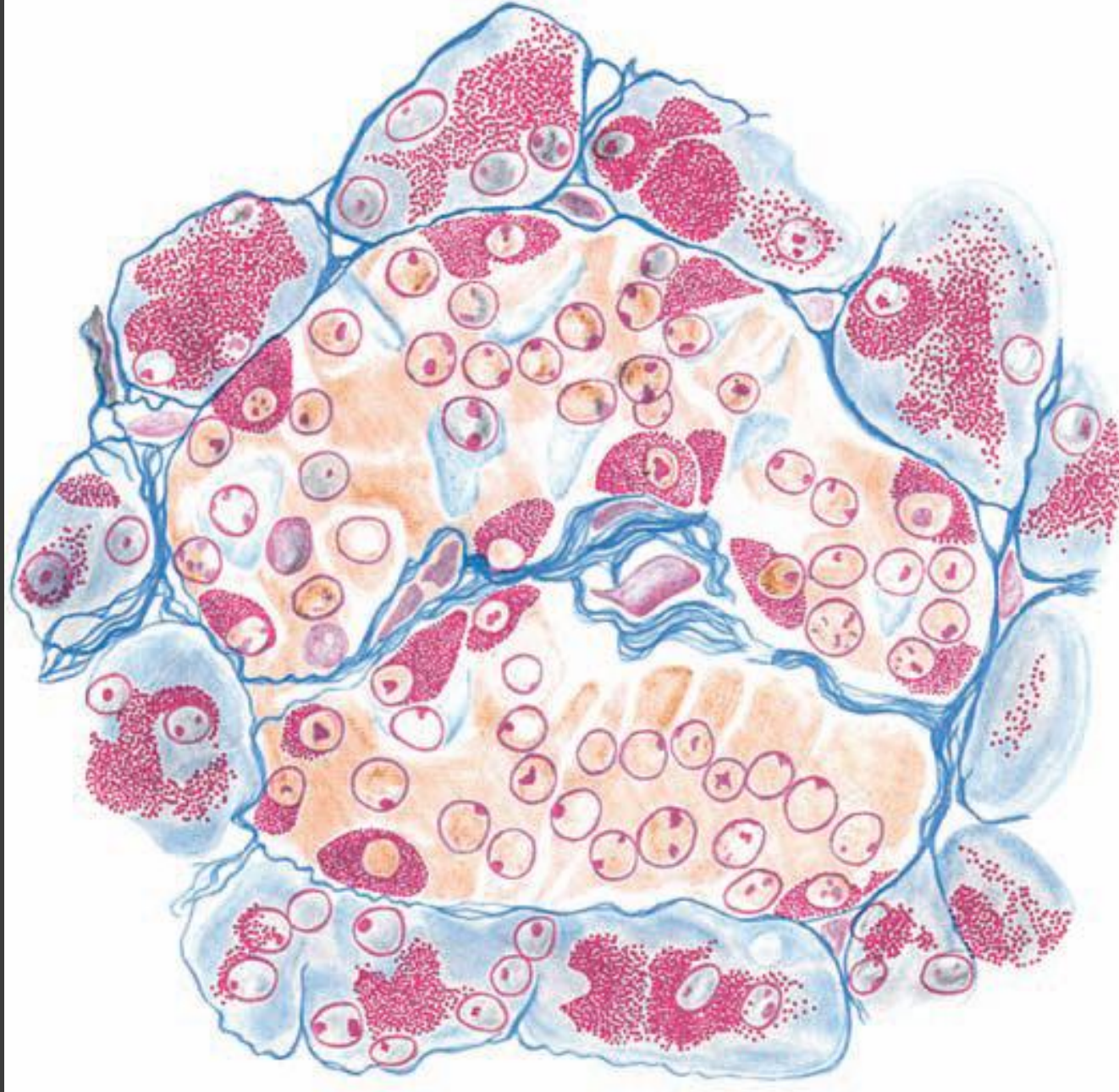
Grimelius silver stain





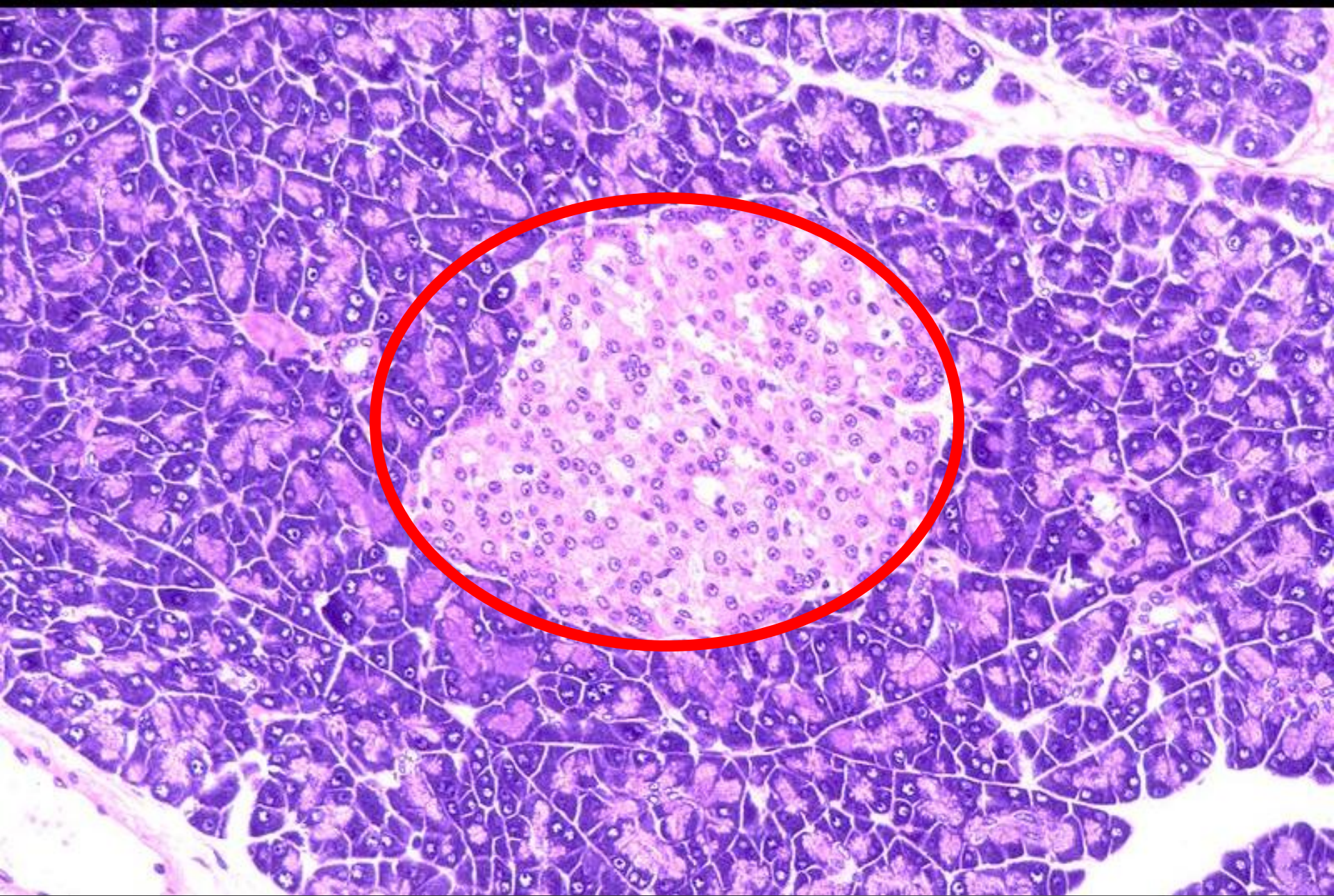
Gomori's chrome alum hematoxylin & phloxine



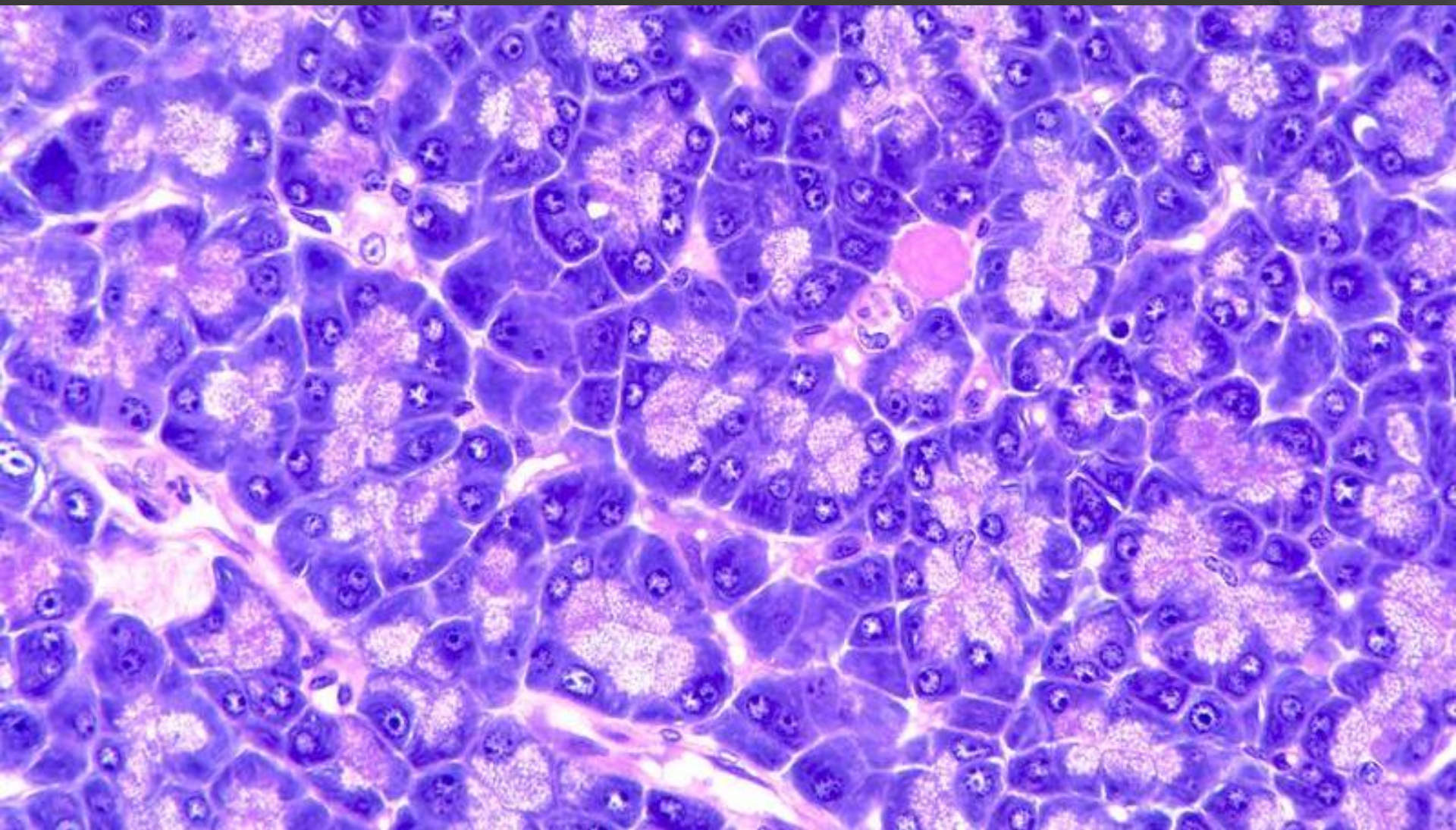


**Mallory-Azan stain**

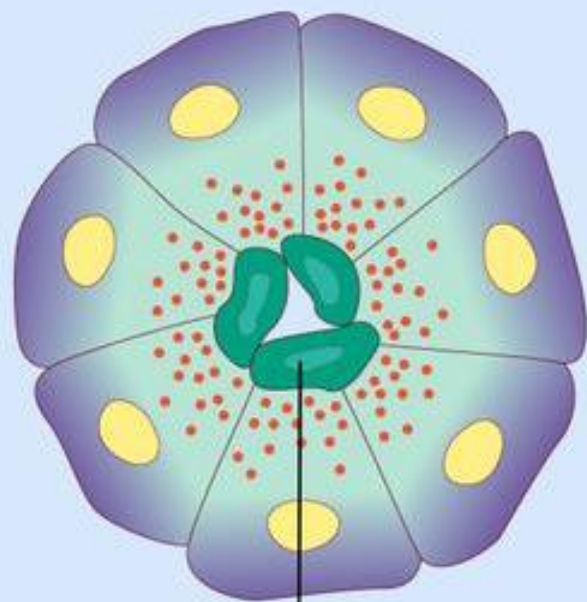




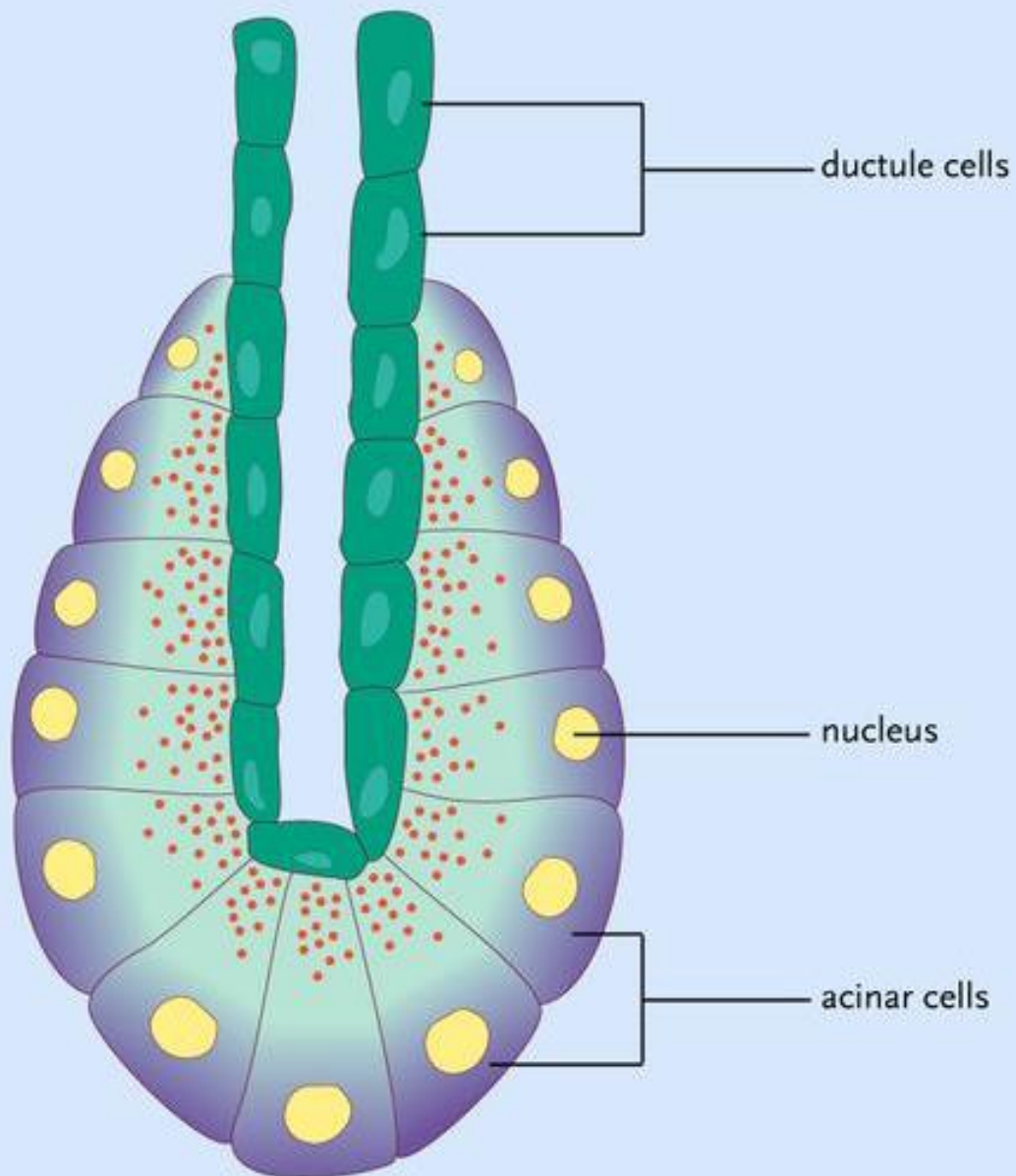








intercalated  
ductule cell  
(centroacinar cells)



ductule cells

nucleus

acinar cells



