LAB.9



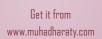
Liver, Gallbladder and Pancreas

Contains of this LAB.

Liver human (MH126b)
Liver pig (MHS206)
Kupffer cells (MH013)
Gall Bladder (MH130b)
Pancreas (MHS211)

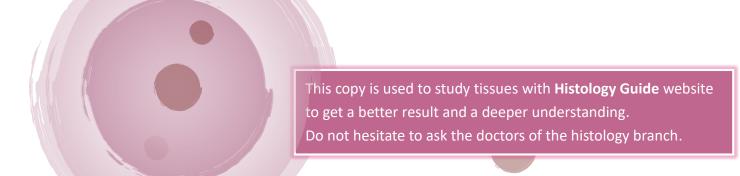
Edited by Fahad A.

Mosul Medical College 2018-2019 2th stage





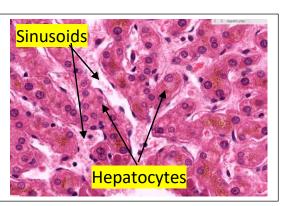
Histology Guide - Aperio slide scanner

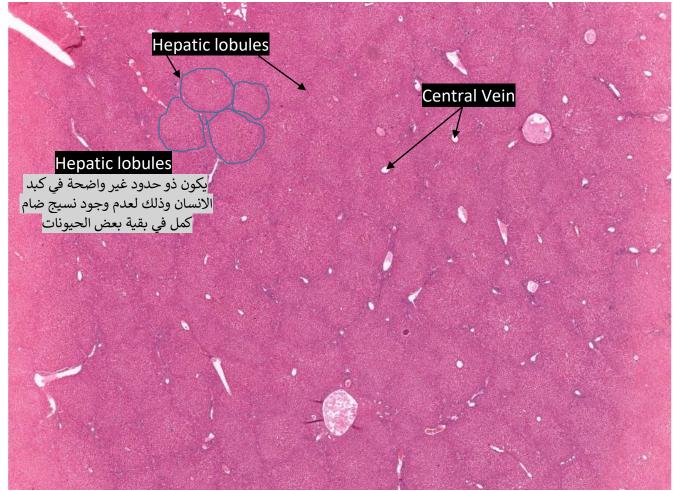


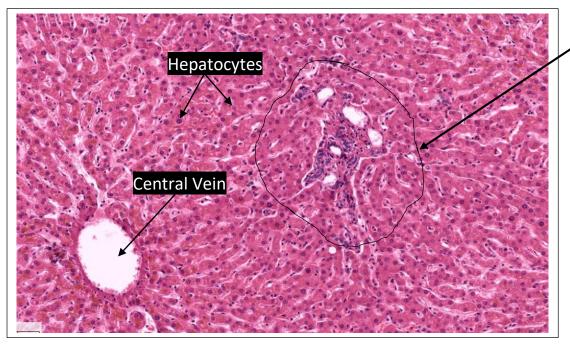
Liver (MH126b)





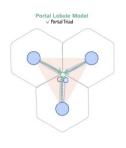






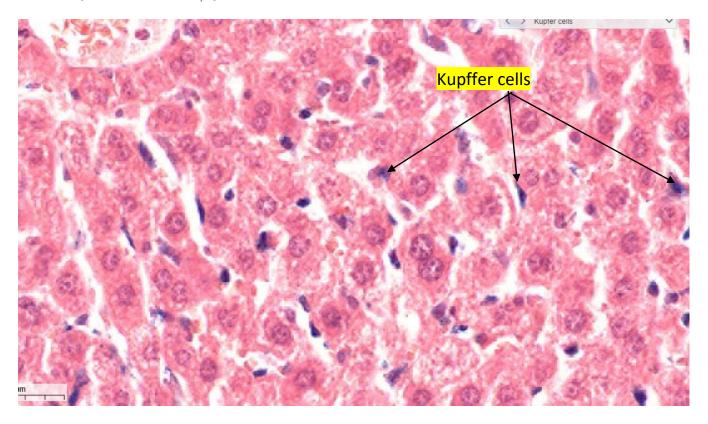
Portal Triads یحتوي

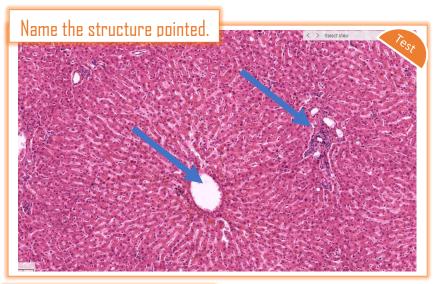
Portal Venule
Bile Ductules
Lymphatic Vessels
یوجد فی منتصف المثلث بین
اغلب کل ثلاثة فصوص
تابع المخطط



Kupffer cells لاحظ هي خلايا ليست دائرية وتوجد قريبة من Sinusoids

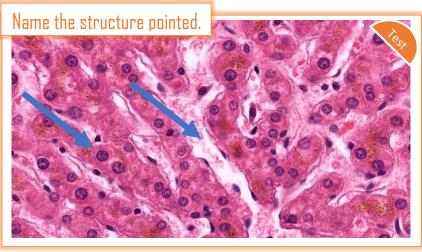
ويتم صبغها بصبغة معية لتظهر

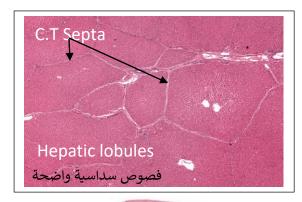




Question: What is the main functions of kupffer cells?

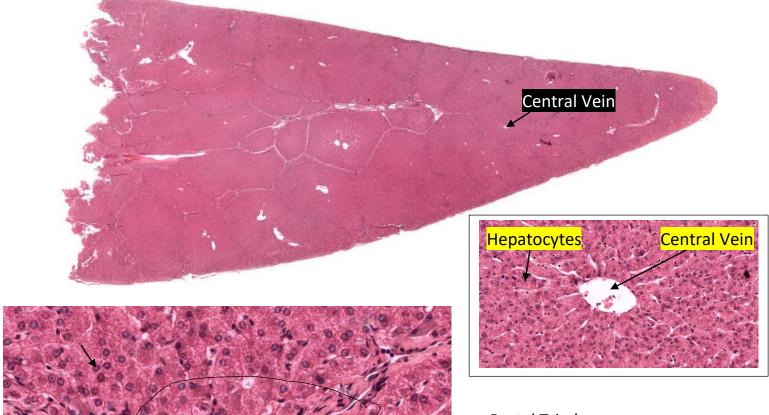
Apart from clearing any bacteria, red blood cells are also broken down by phagocytic action.





Liver of pig (MHS206)

مثال لنسيج كبد الخنزير نفس التركيب لكبد الانسان عدا ان الفصوص تكون واضحة ل احتواها على نسيج ضام

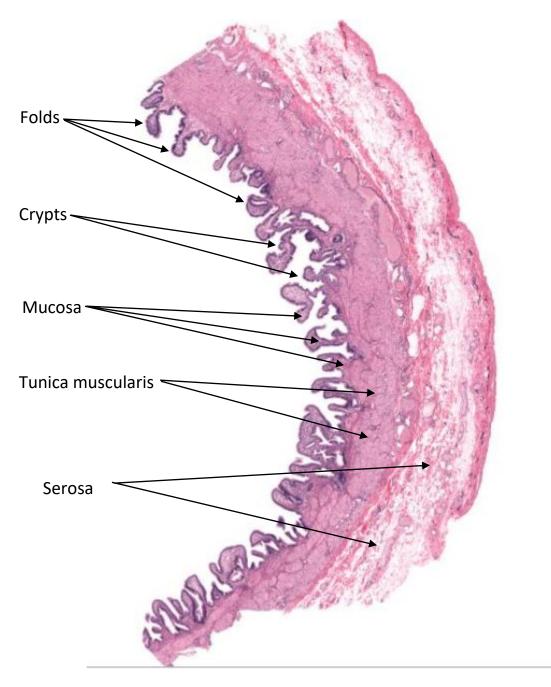


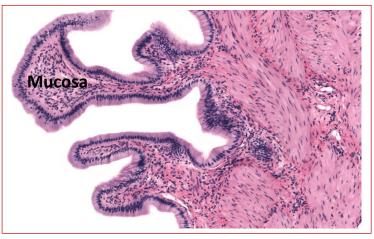
Portal Triads

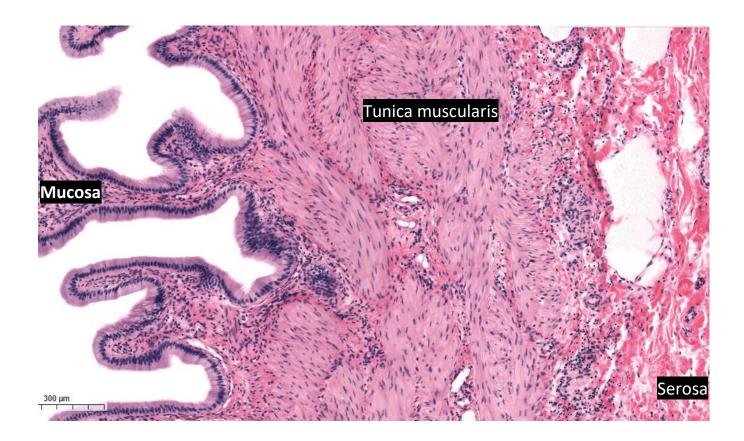
يحتوي

Portal Venule Bile Ductules Lymphatic Vessels يوجد في منتصف المثلث بين اغلب كل ثلاثة فصوص

Gall Bladder (MH130b)







Notes from Histology Guide website

Mucosa (or mucous membrane) - the empty bladder has numerous deep folds (or rugae) often resulting in the appearance of cross bridges

Simple Columnar Epithelium - similar in appearance to absorptive cells in the intestines

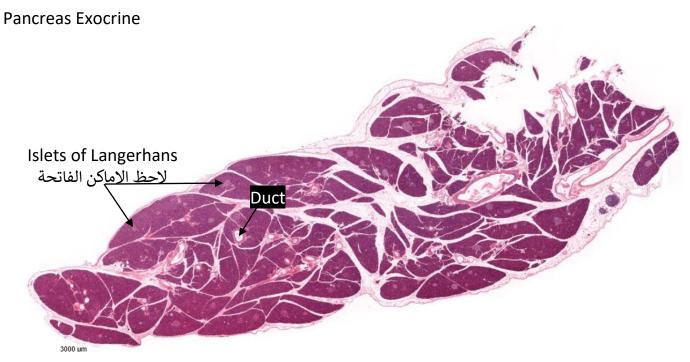
Lamina Propria - dense irregular connective tissue that supports the epithelium. It is rich in fenestrated capillaries and small venules

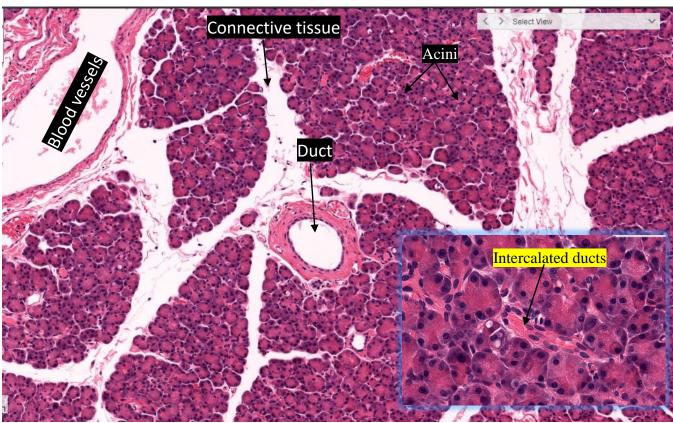
Tunica Muscularis - randomly oriented bundles of smooth muscle containing numerous collagen and elastic fibers. Its contraction results in emptying of the gallbladder

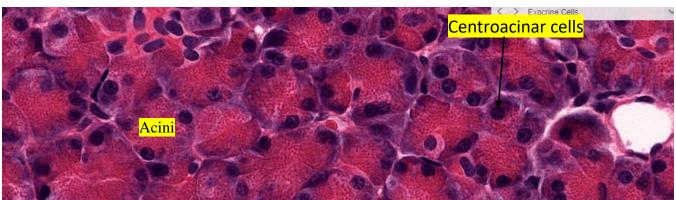
Outer Layer of Connective Tissue - composition depends on its location

Serosa - where the gallbladder is unattached to the liver. It is composed of a surface layer of mesothelium supported by loose irregular connective tissue

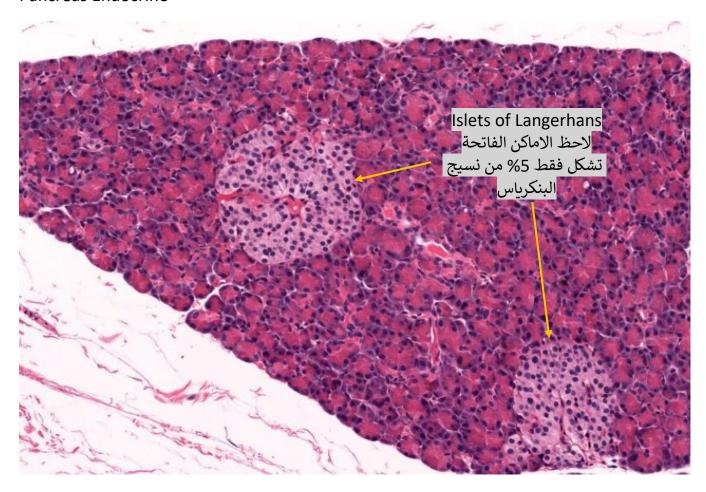
Pancreas (MHS211)

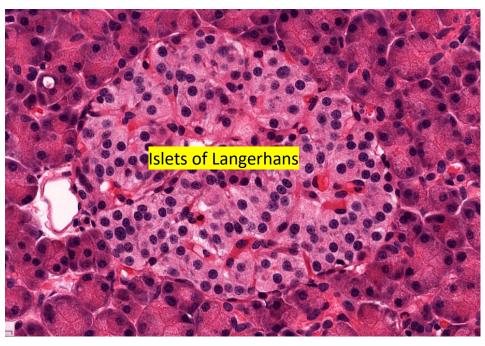






Pancreas Endocrine





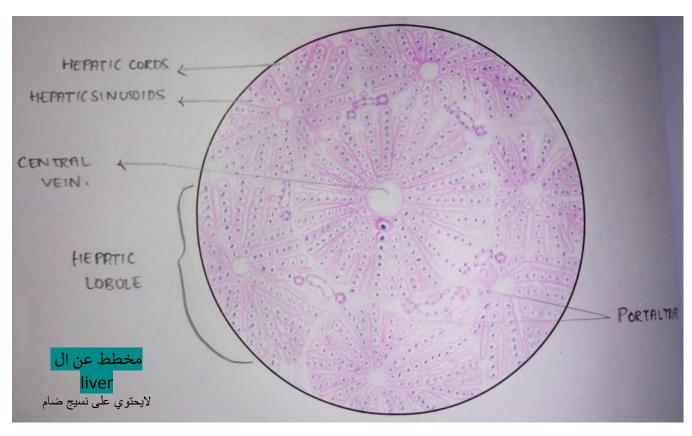
Islets of Langerhans

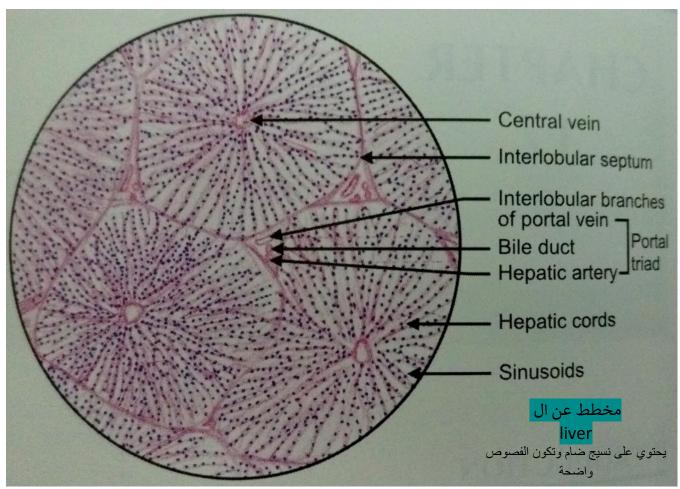
بالنسبة لتوزيع خلايا الفا وبيتا

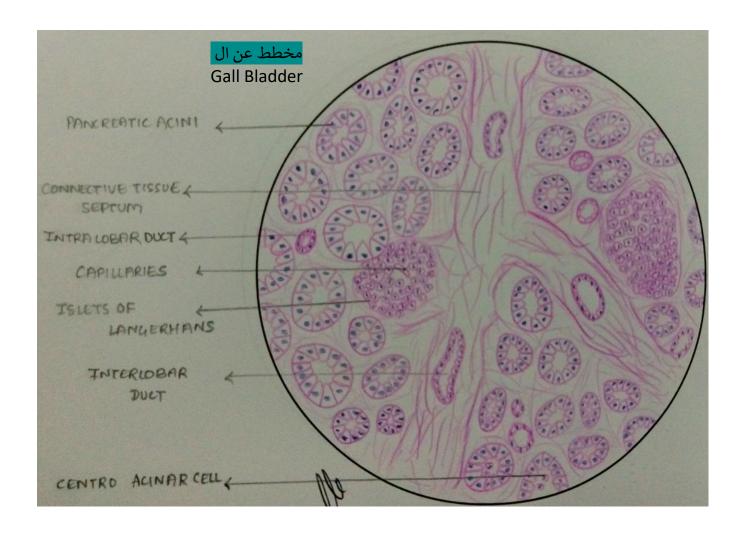
خلايا الفا – تكون قريبة من الحافة صبغتها اكثر

خلايا بيتا – تكون غالبا في المنتصف بصبغة اقل واكثر عدد

بعض المخططات المفيدة في المختبر:-







Question: what are the main difference between the pancreas and parotid gland?

THIS SLIDES FROM HISTOLOGYGUIDE WEBSITE.