Department of Zoology

Daw San San Myint

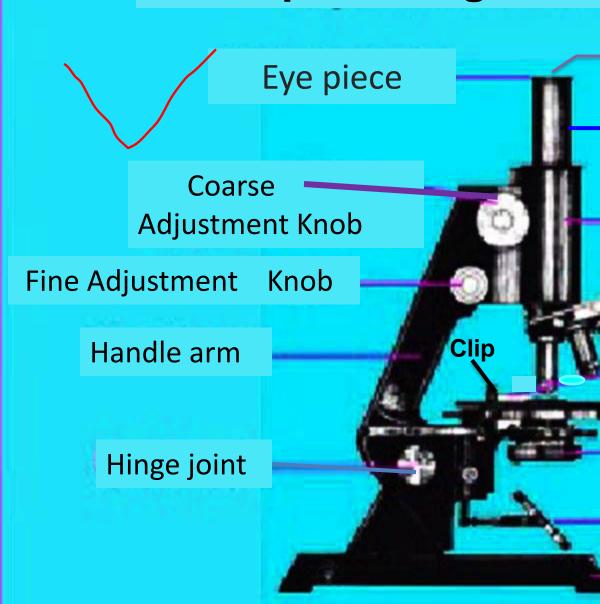
Lecturer & Head

A Compound Light Microscope

Eye piece lens Eye piece Eye piece Prism box tube **Objective** Handle arm/ Objective lens Clip Limb Stage knob Stage Condenser Coarse Illuminator adjustment knob Fine Base

adjustment knob

A Compound Light Microscope



Eye piece lens

Eye piece tube

Body tube

Objective

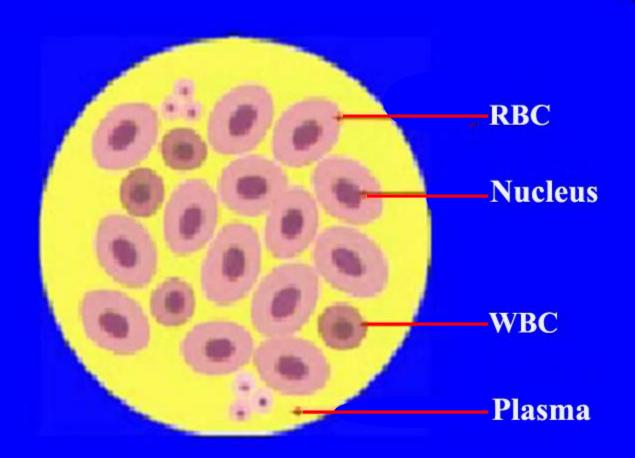
Objective lens
Stage

Condenser

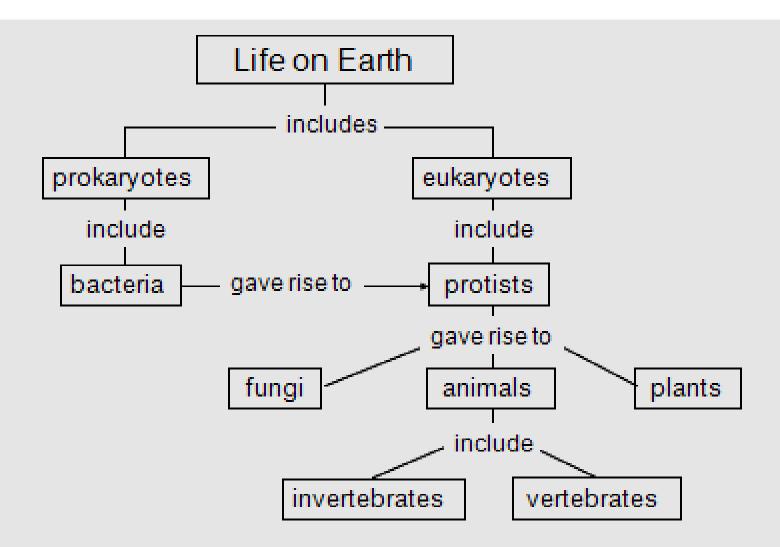
Mirror

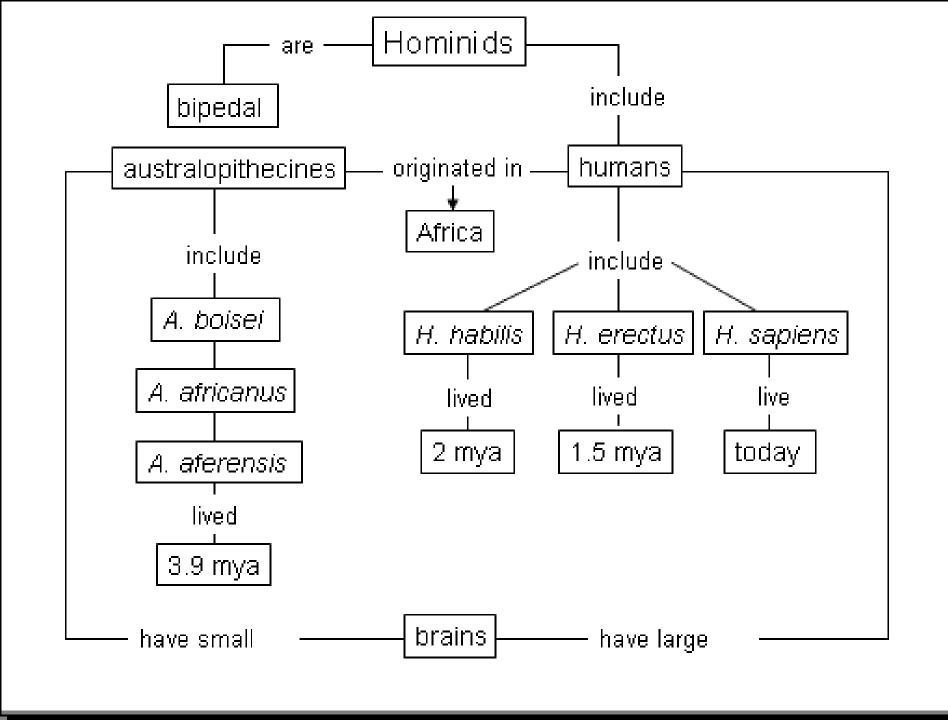
Base

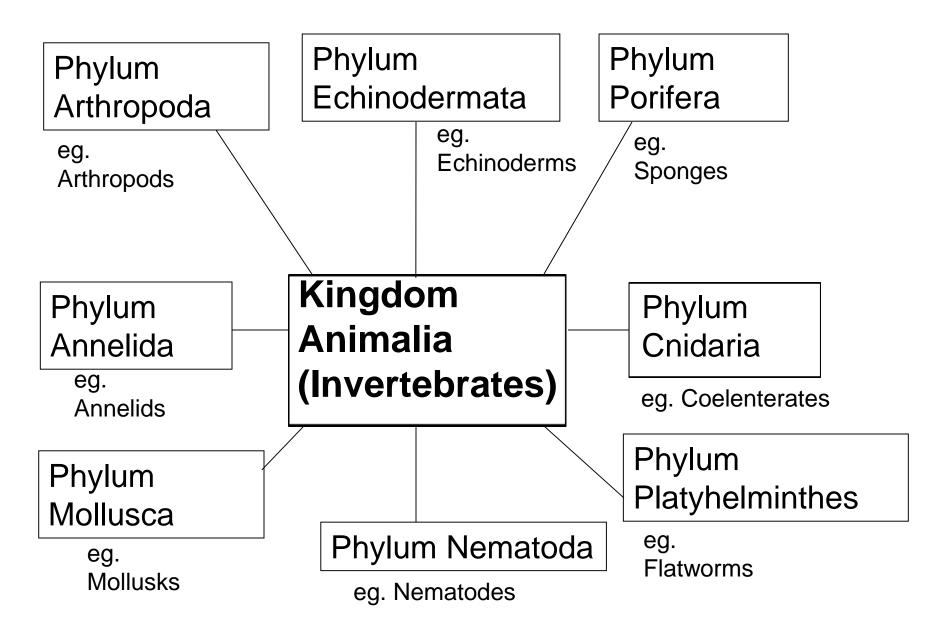
Frog Blood



High power magnification - 40X

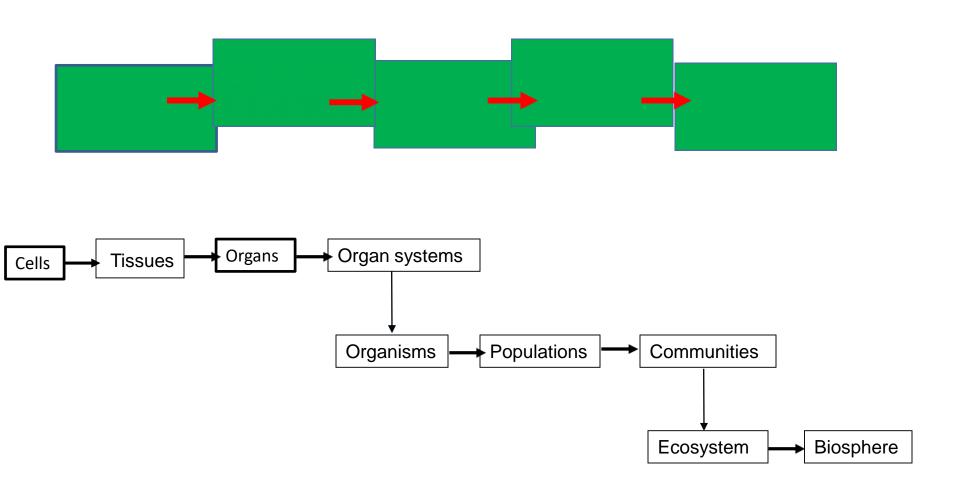






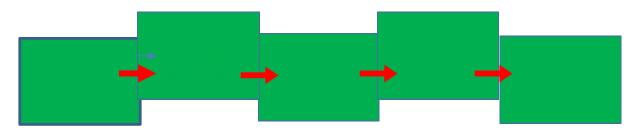
Kingdom Animalia (Invertebrates)

Flow concept map



Levels of organization

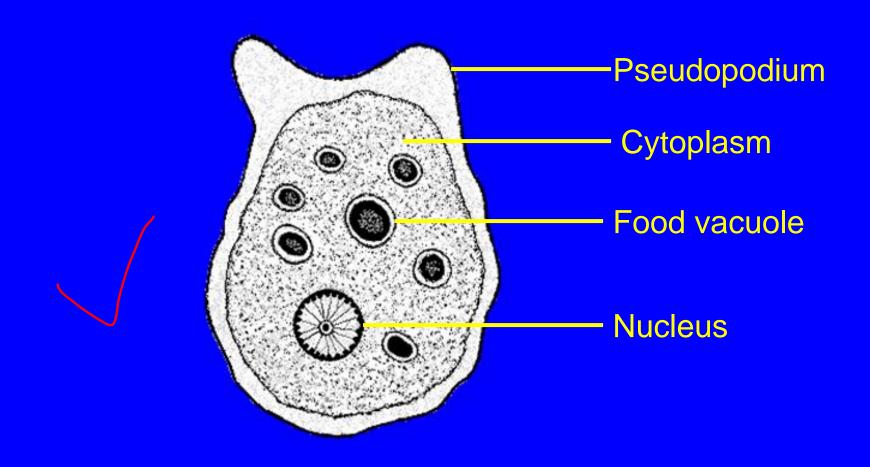
Flow concept map



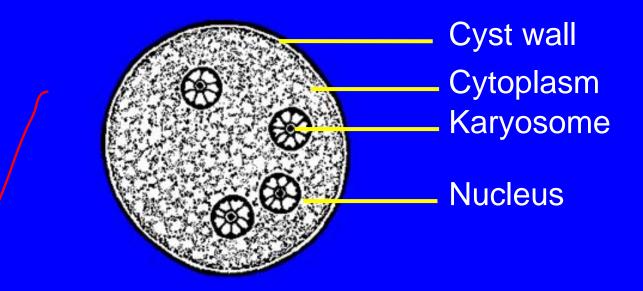


7 major categories

Entamoeba histolytica (trophozoite stage)

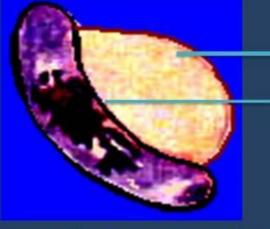


Entamoeba histolytica (mature cyst)





Plasmodium falciparum



Red blood cell

Nucleus

Female gametocyte

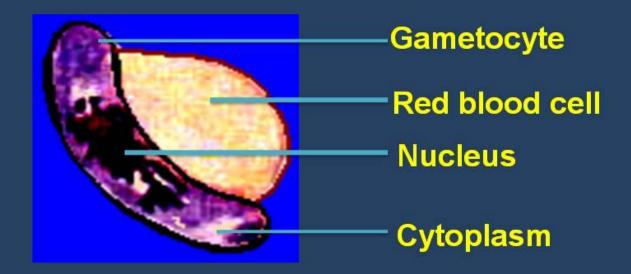


Nucleus

Red blood cell

Male gametocyte

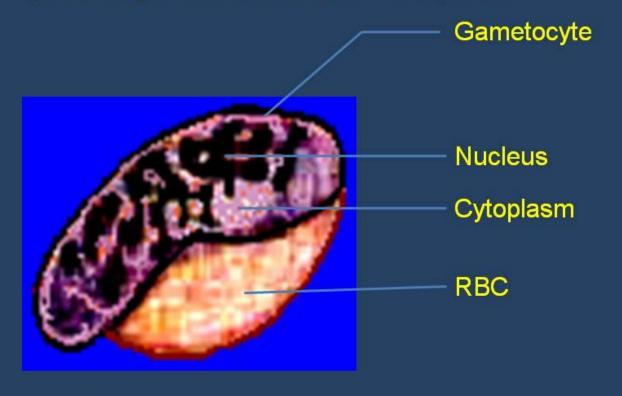
Female gametocyte of Plasmodium falciparum



Macrogametocyte

Function - For sexual reproduction.

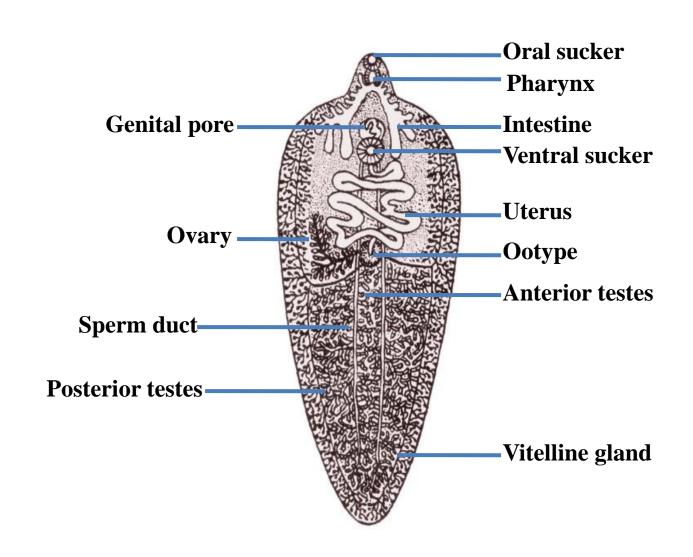
Male gametocyte of Plasmodium falciparum



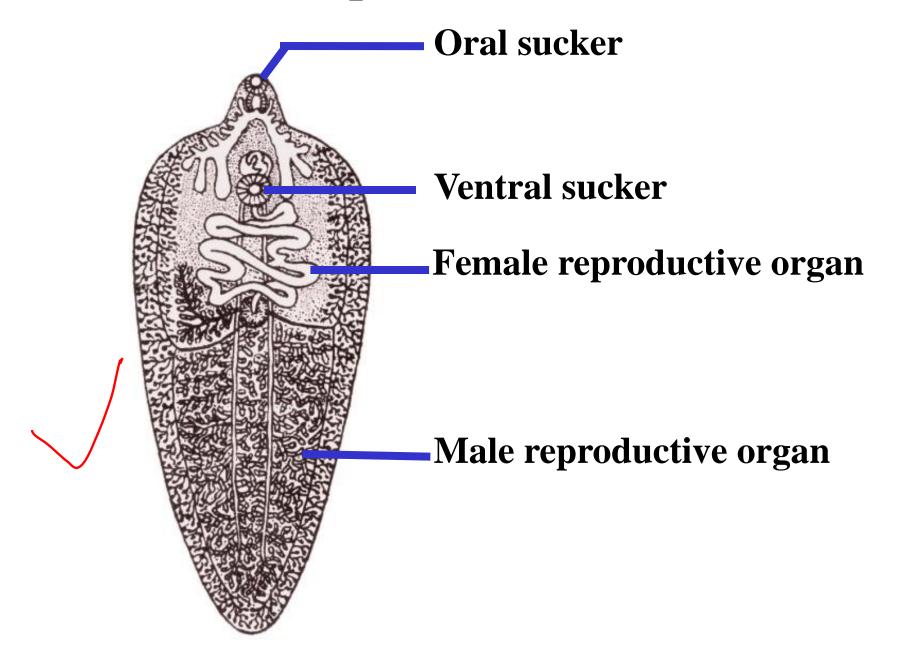
Microgametocyte

Male gametocyte

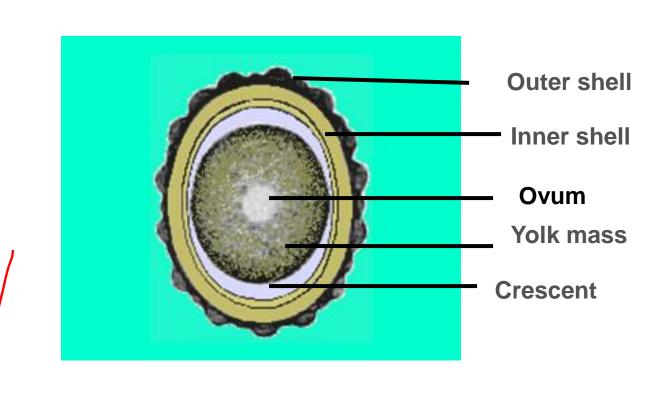
Fasciola hepatica (liver fluke)



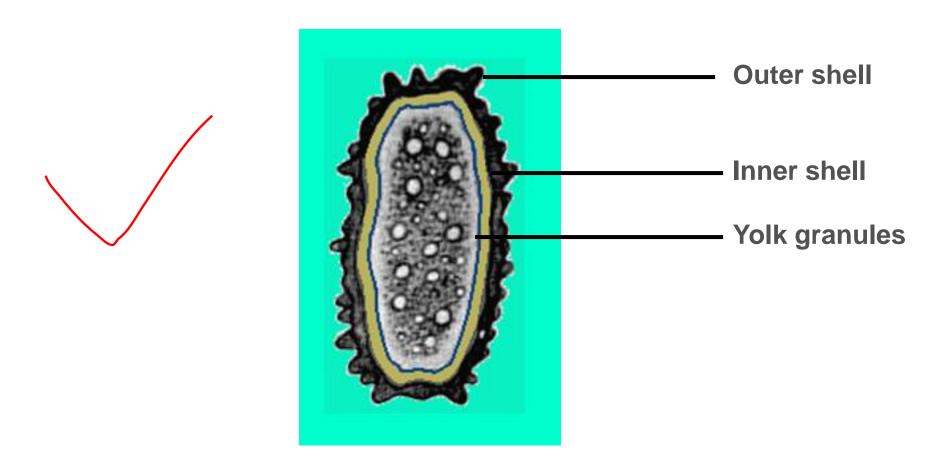
Fasciola hepatica (liver fluke)



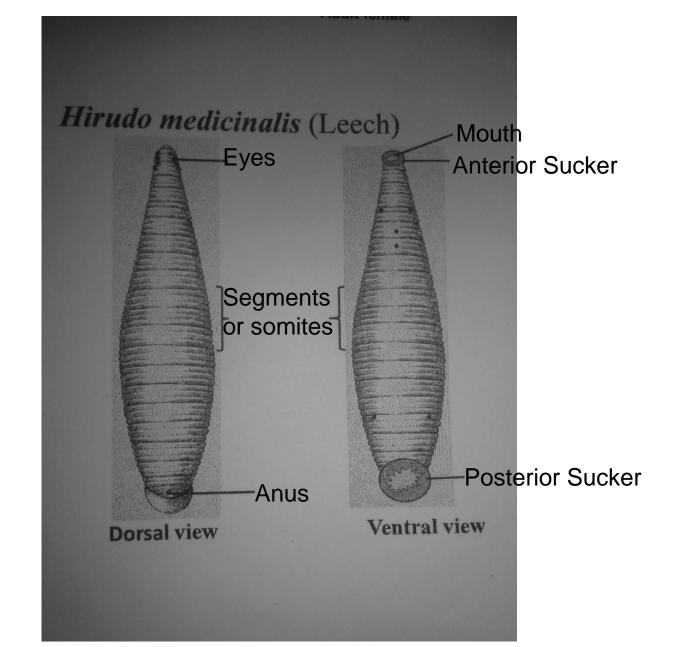
Ascaris lumbricoides (fertilized egg)



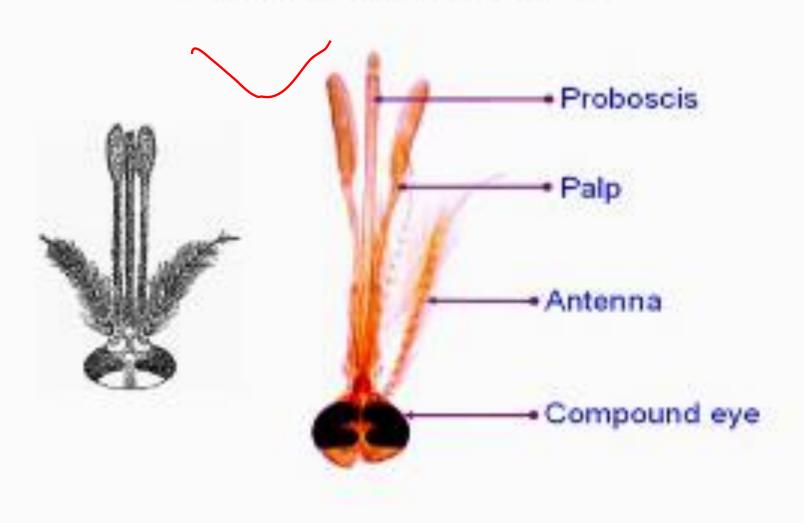
Ascaris lumbricoidAes (unfertilized egg)



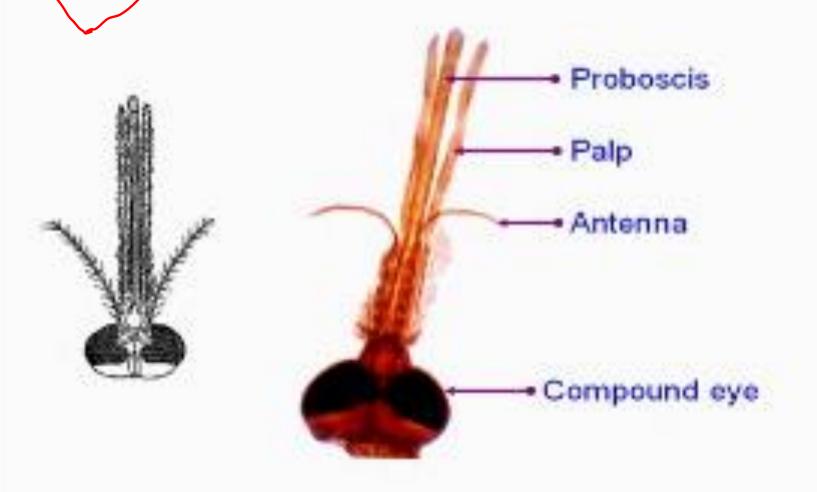
Ascaris lumbricoides Tail Mouth Mouth Anus Spicules Anus Vulvar waist Curved tail Adult male **Genital pore** Adult female



Anopheles male head

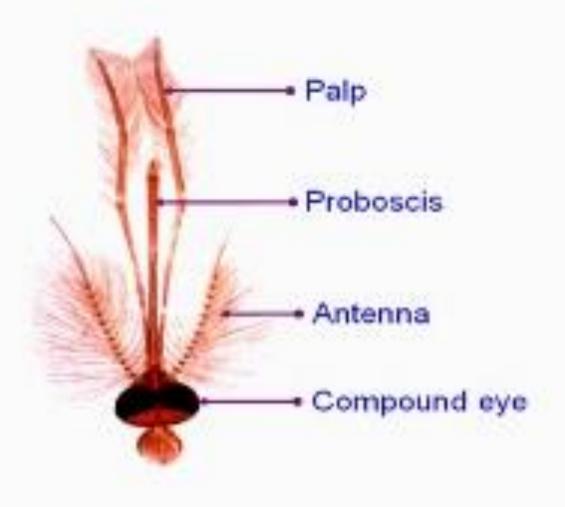


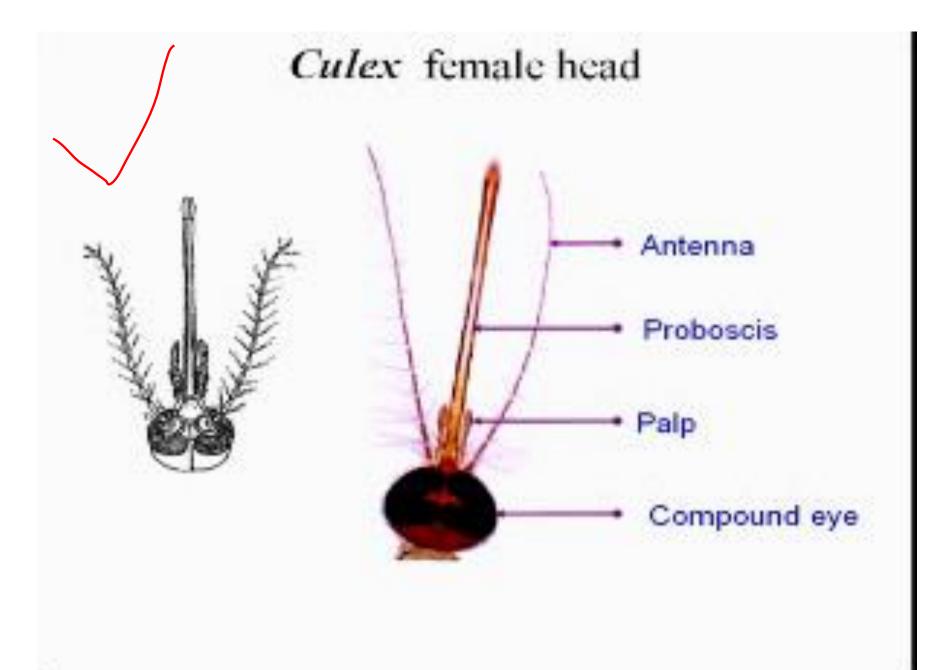
Anopheles female head



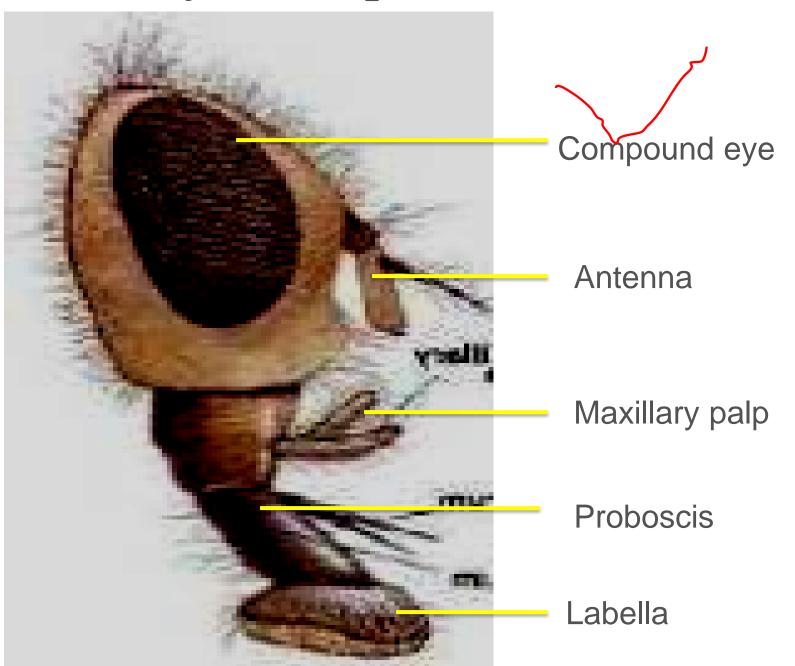
Culex male head







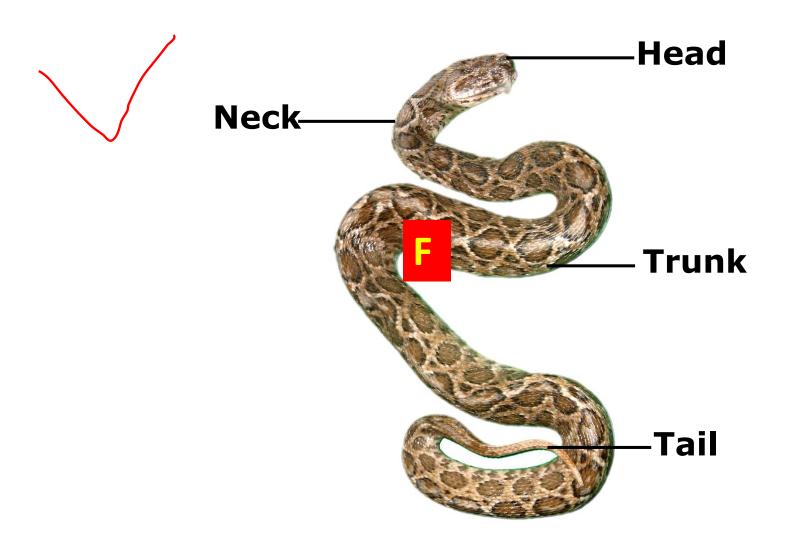
House fly mouth parts



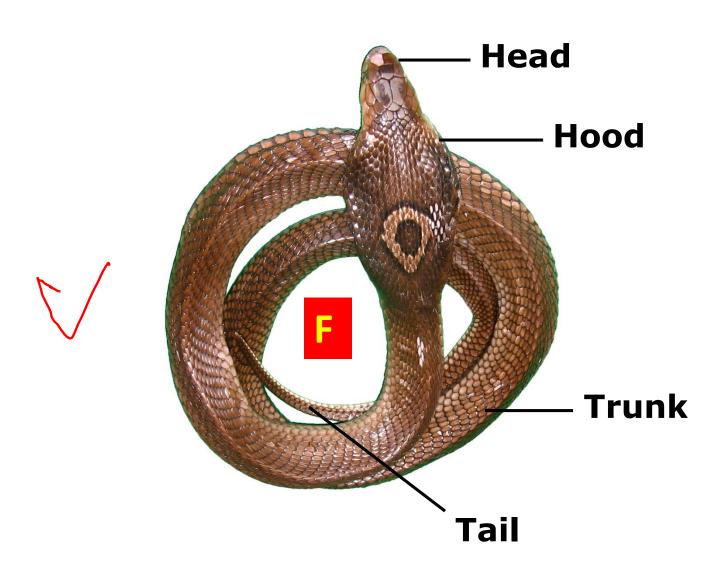
Hydrophis (Sea snake)



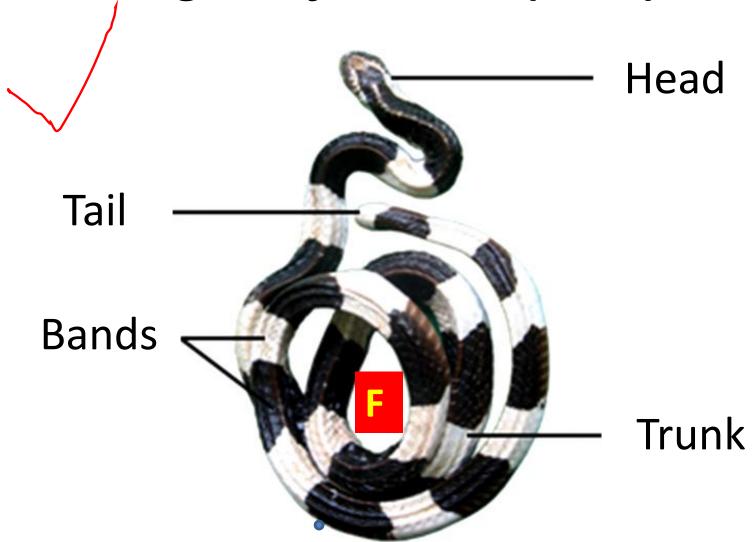
Vipera russelli (Viper)



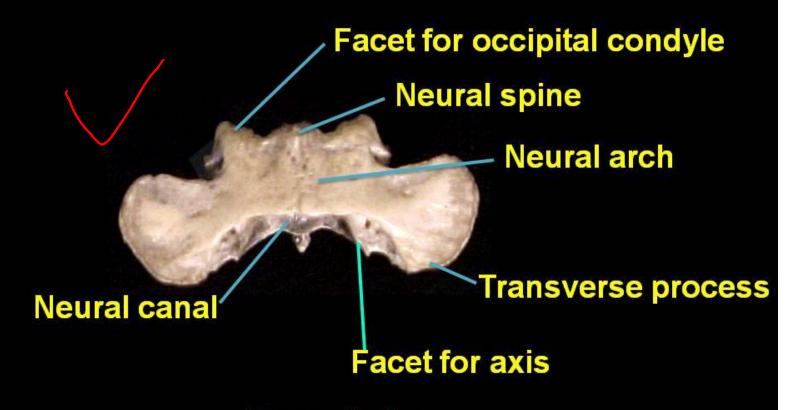
Naja naja (Cobra)



Bungarus fasciatus (Krait)

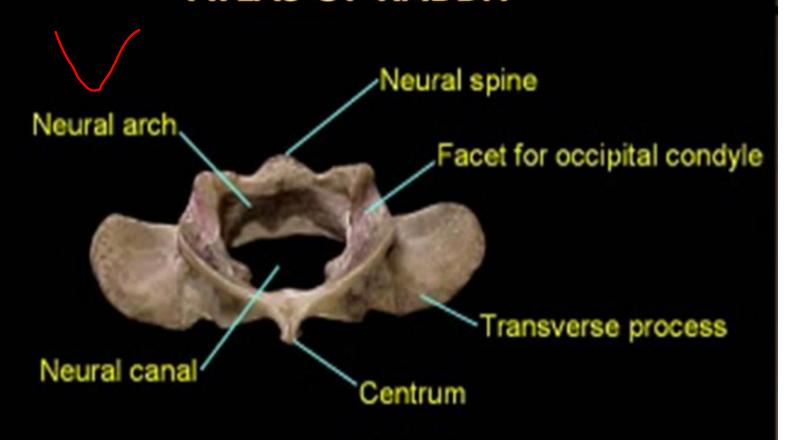


ATLAS OF RABBIT



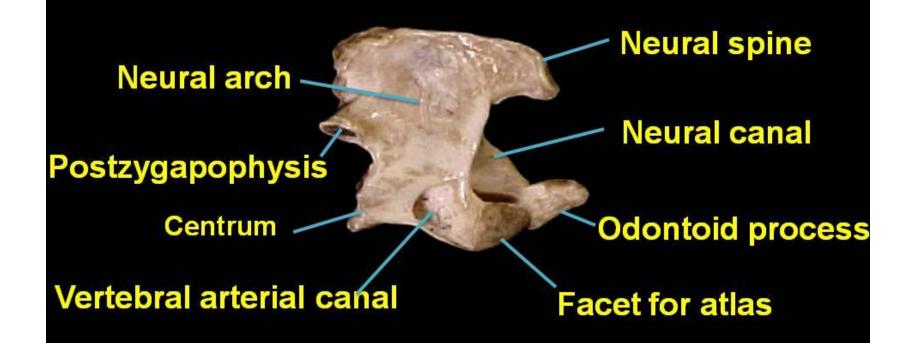
Dorsal view

ATLAS OF RABBIT



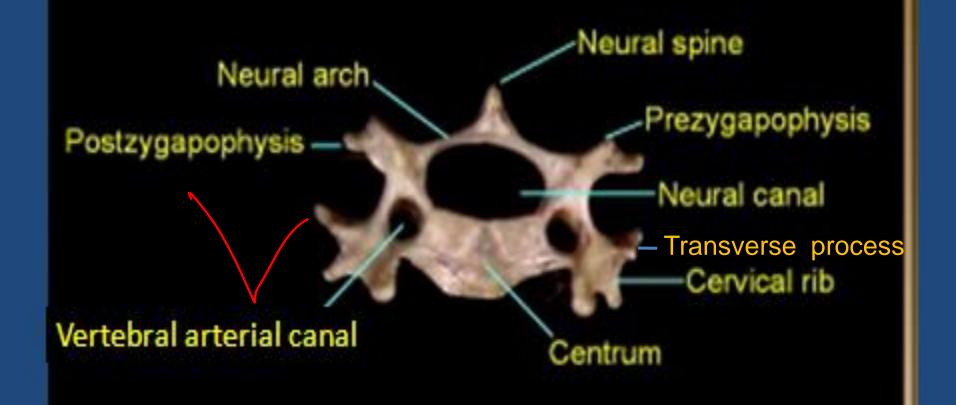
Ventral view





Lateral view

TYPICAL CERVICAL VERTEBRA OF RABBIT



Anterior view

TYPICAL CERVICAL VERTEBRA OF RABBIT

Prezygapophysis

Centrum

Neural arch

Cervical rib

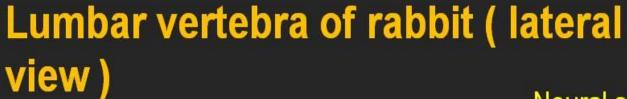
Spine

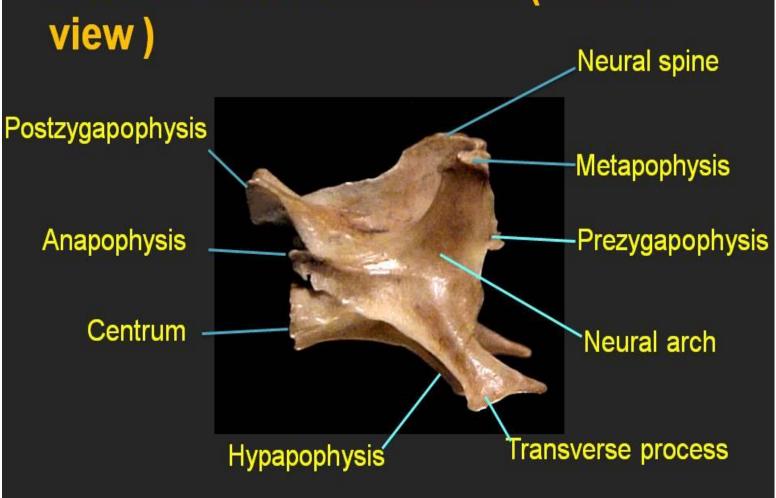
Postzygapophysis

Dorsal view

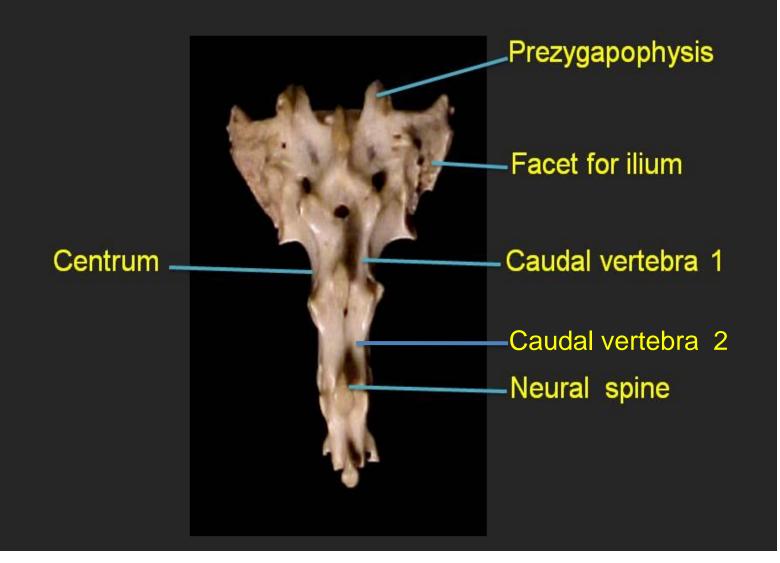
Thoracic vertebra of rabbit (anterior view)

Neural spine Neural arch Postzygapophysis -Neural canal Transverse process Prezygapophysis Centrum

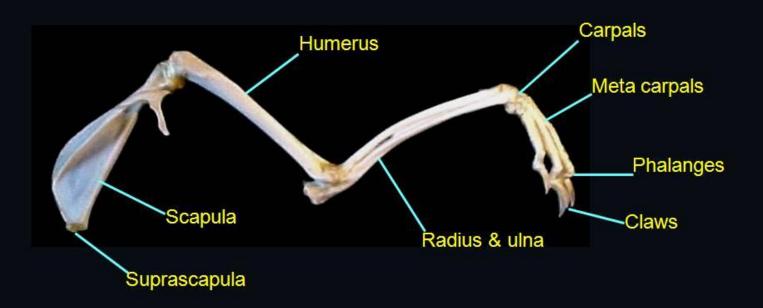




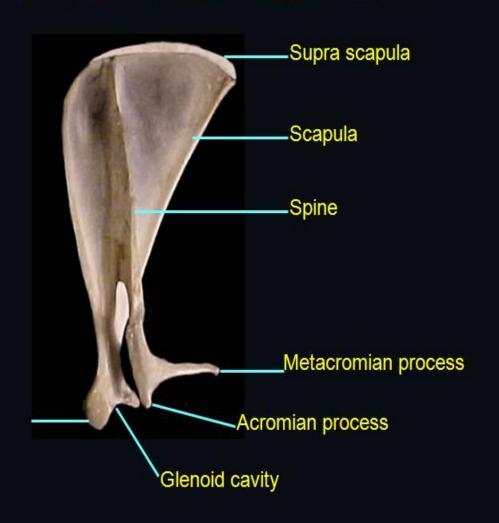
Sacral vertebra of rabbit (dorsal view)



FORE LIMB BONES OF RABBIT

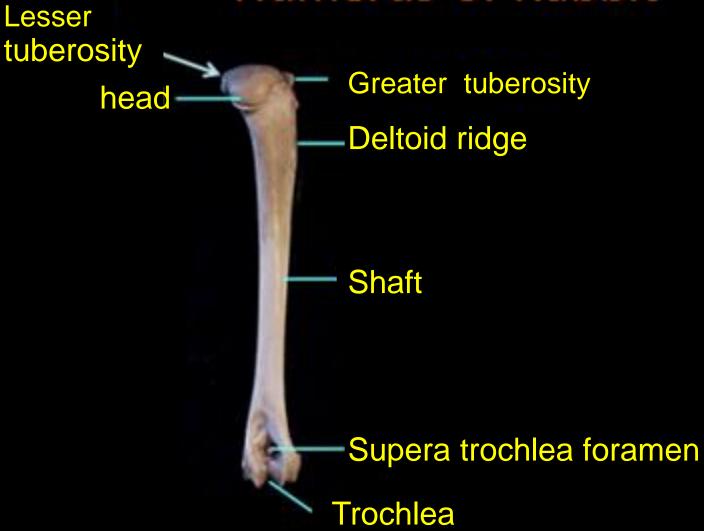


SCAPULA OF RABBIT

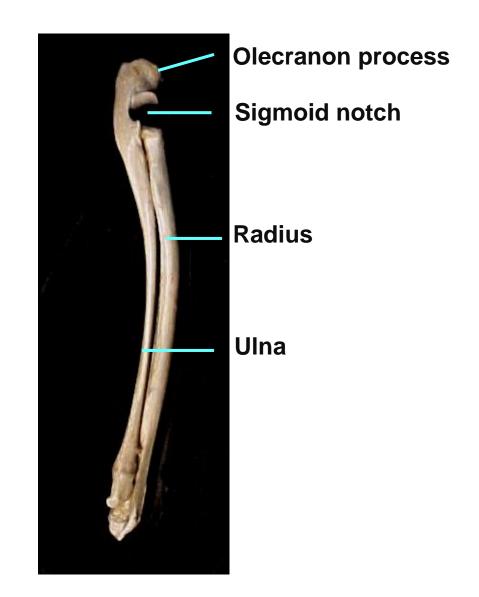


Coracoid process

Humerus of Rabbit

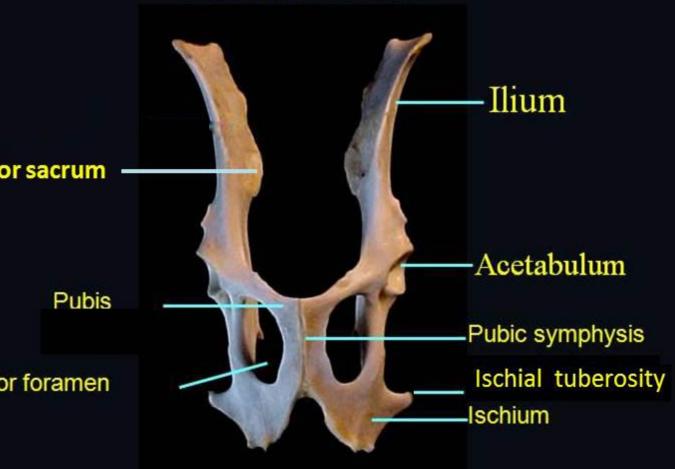


RADIUS & ULNA OF RABBIT



PELVIC GIRDLE OF RABBIT

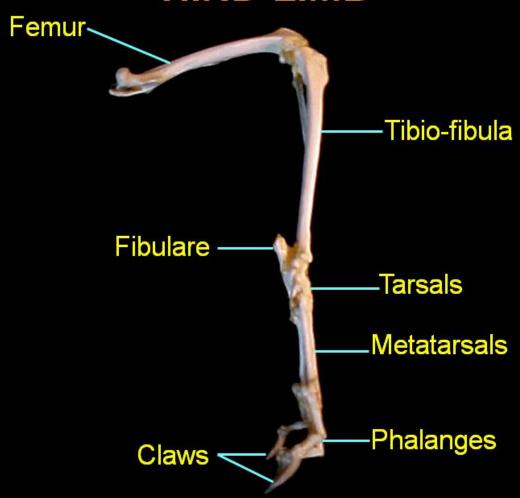
Ventral view



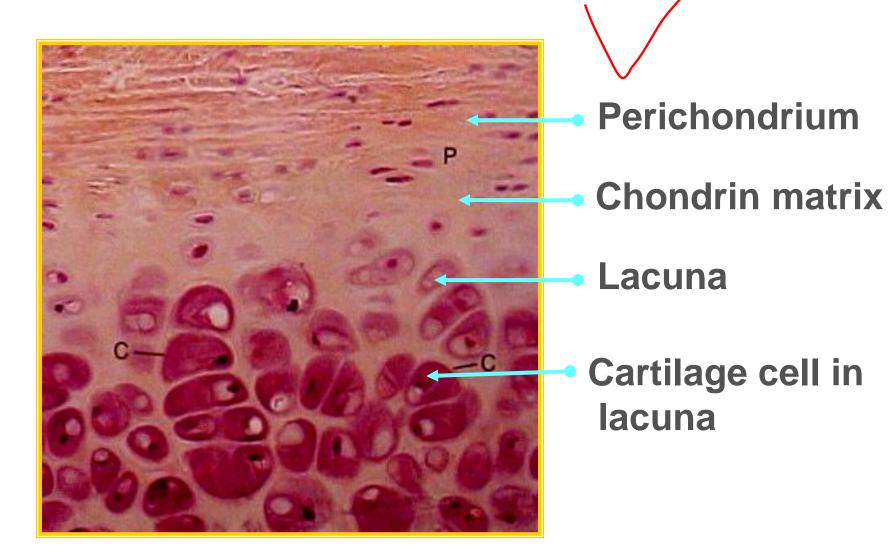
Facet for sacrum

Obturator foramen

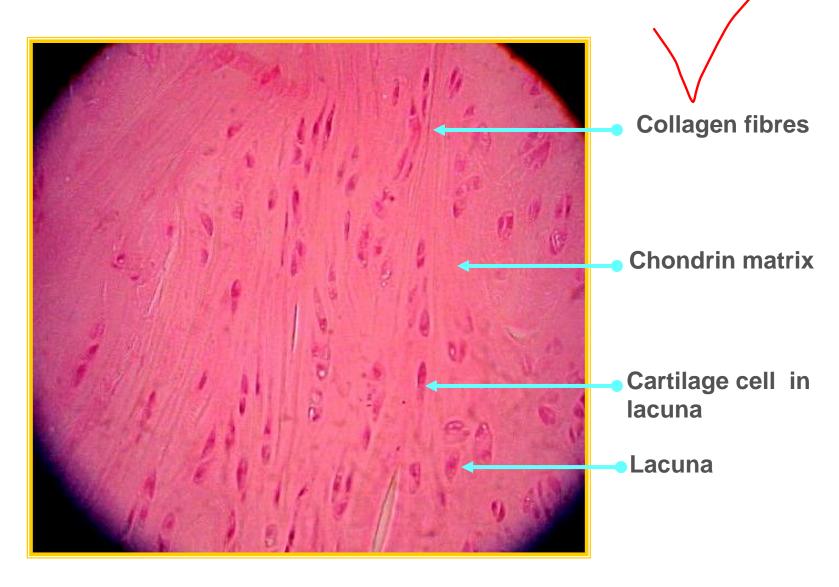
HIND LIMB



(a) Hyaline cartilage

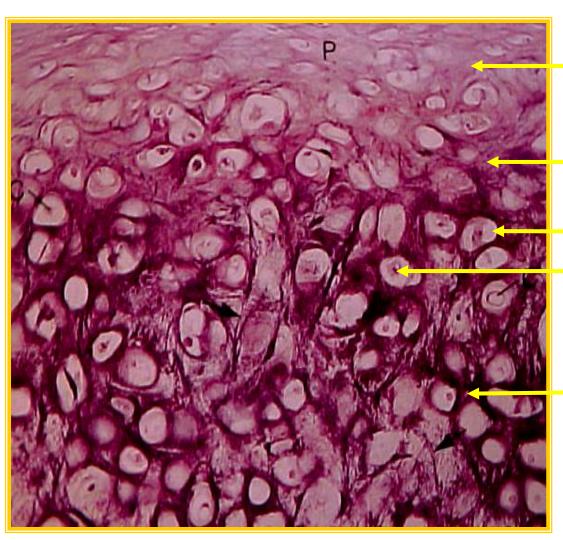


(b) Fibro-cartilage



(c) Elastic cartilage





Perichondrium

Chondrin matrix

Lacuna

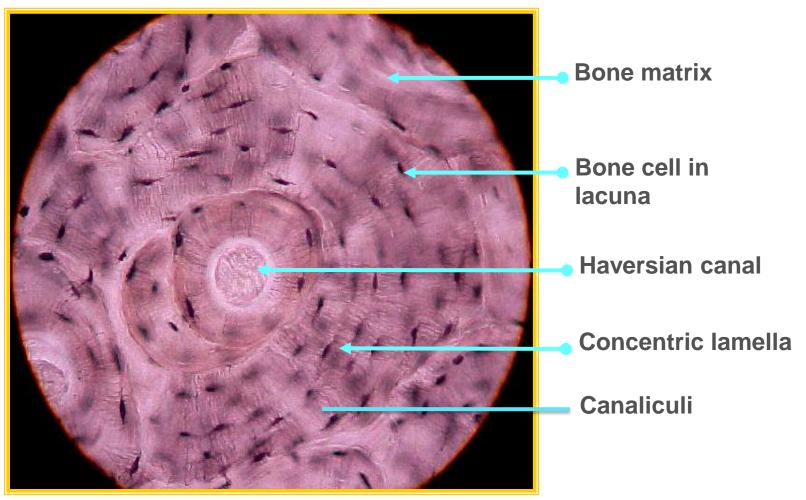
Cartilage cell in lacuna

Elastic fibres

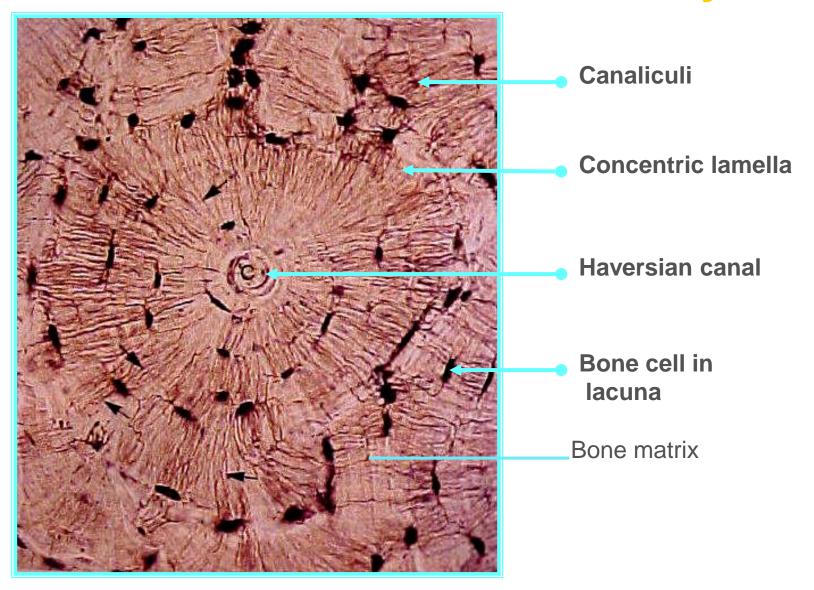
Ground bone X.S.

Haversian system

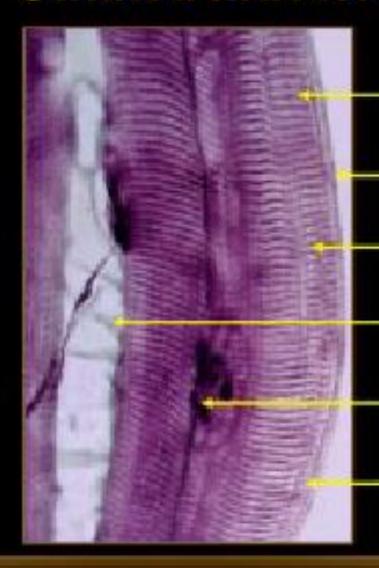




Ground bone X.S Haversian system



Striated muscle



Transverse stration

Sarcolemma

Sarcoplasm

Collagen fibres

Nucleus

Muscle cell

Smooth muscle

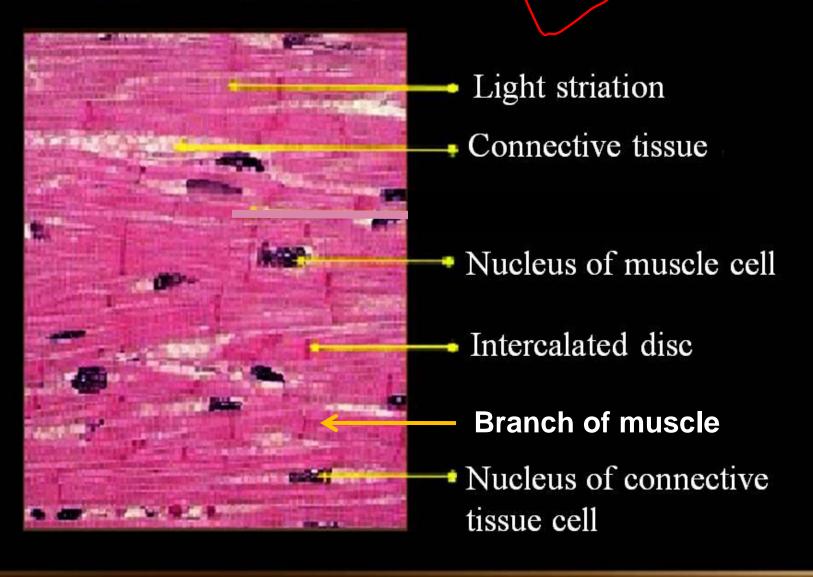
Wall of blood vessel



- Smooth muscles in longitudinal layer
 - Blood cells RBC

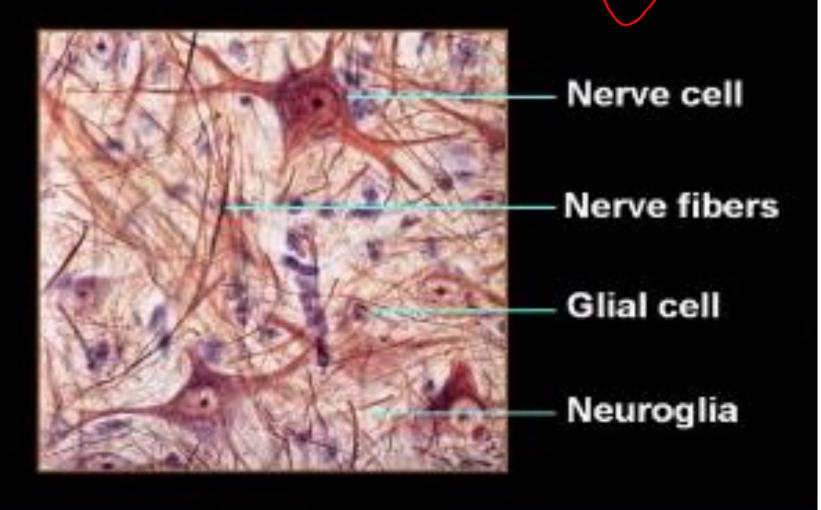
- Smooth muscles in circular layer
- Nucleus

Cardiac muscle

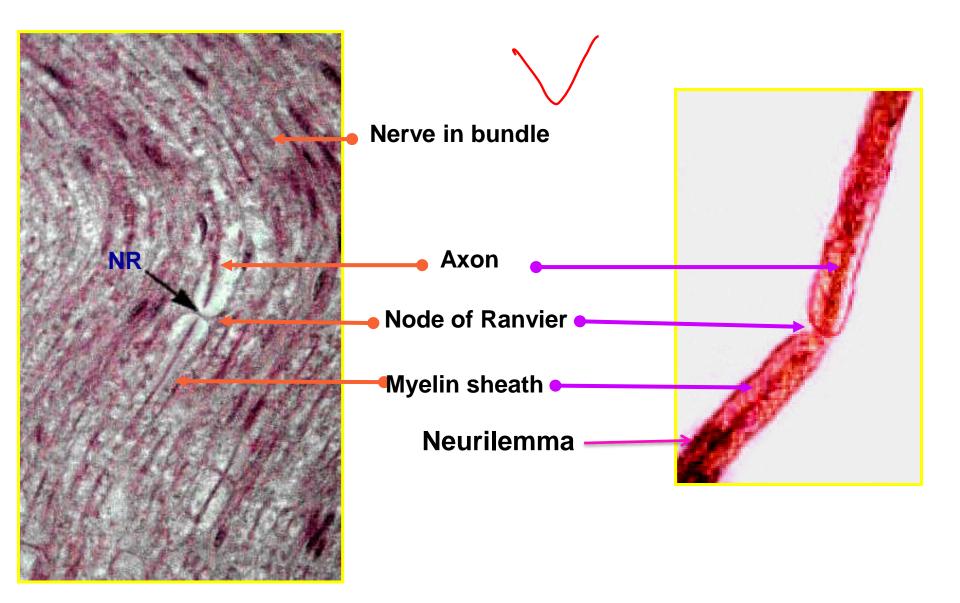


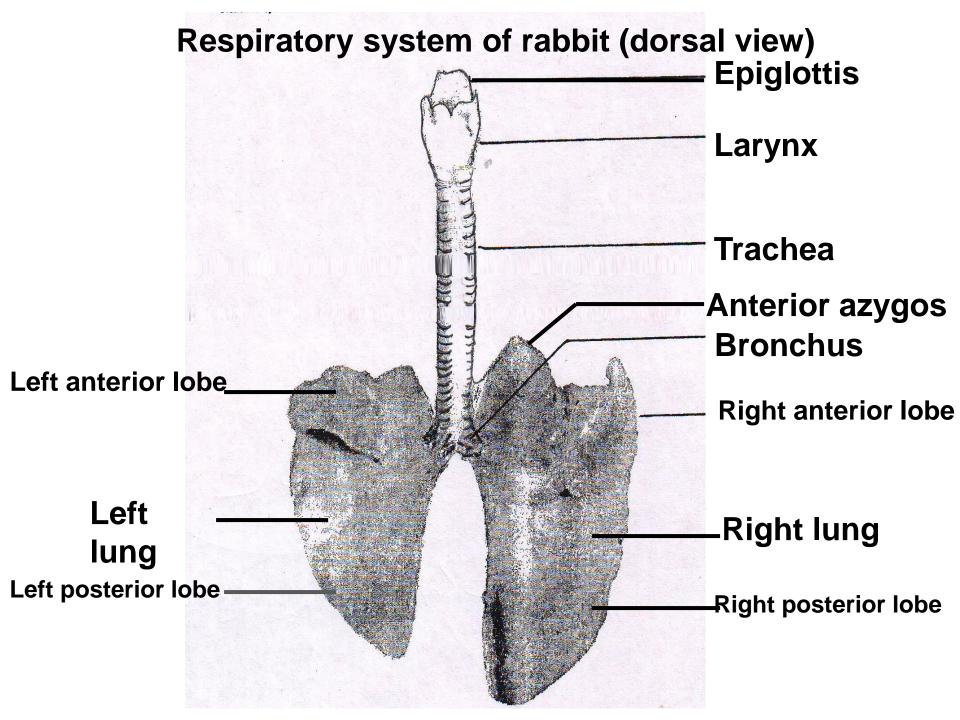
Neuron / Nerve cell Glial cell Dendrite Nucleus Cell body Axon

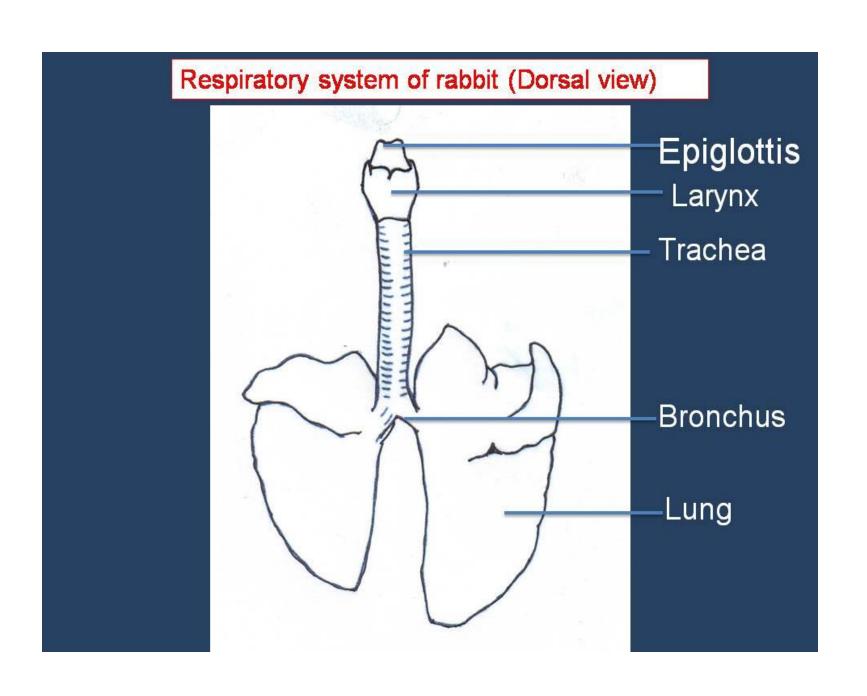
Nerve tissue

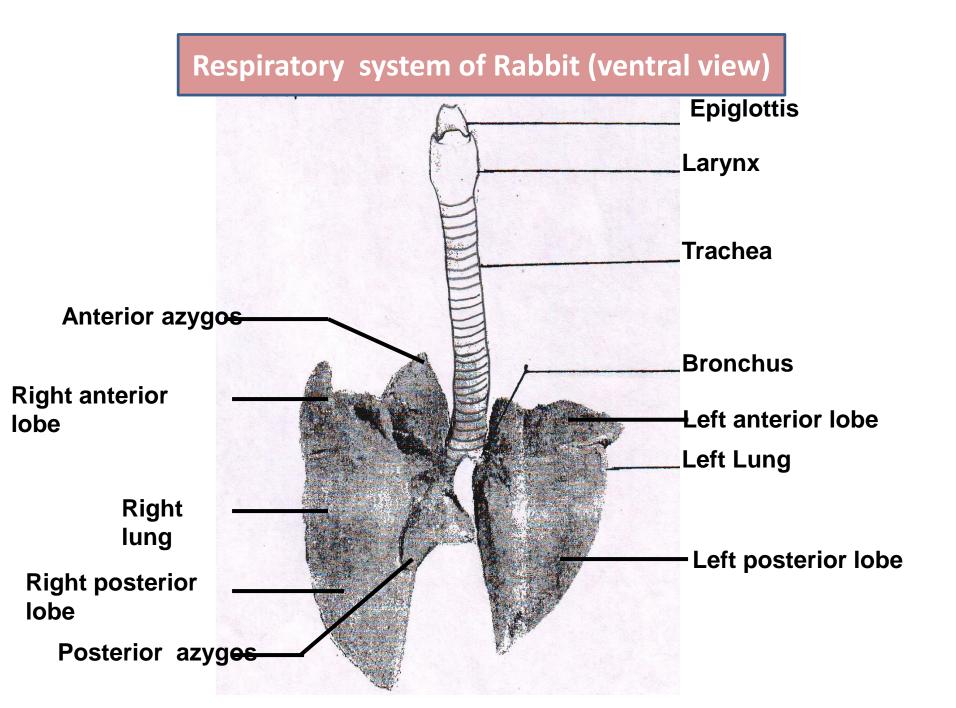


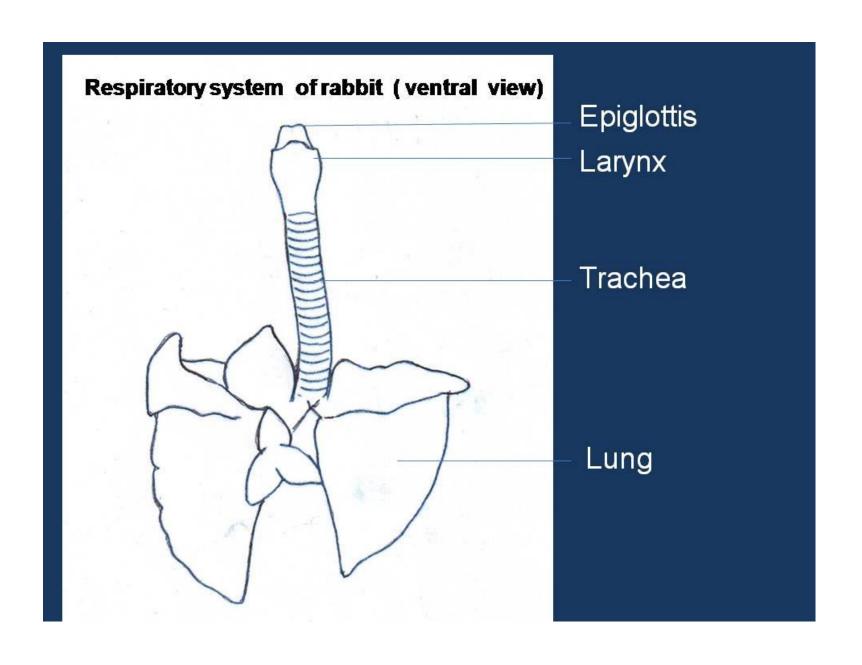
Myelinated nerve

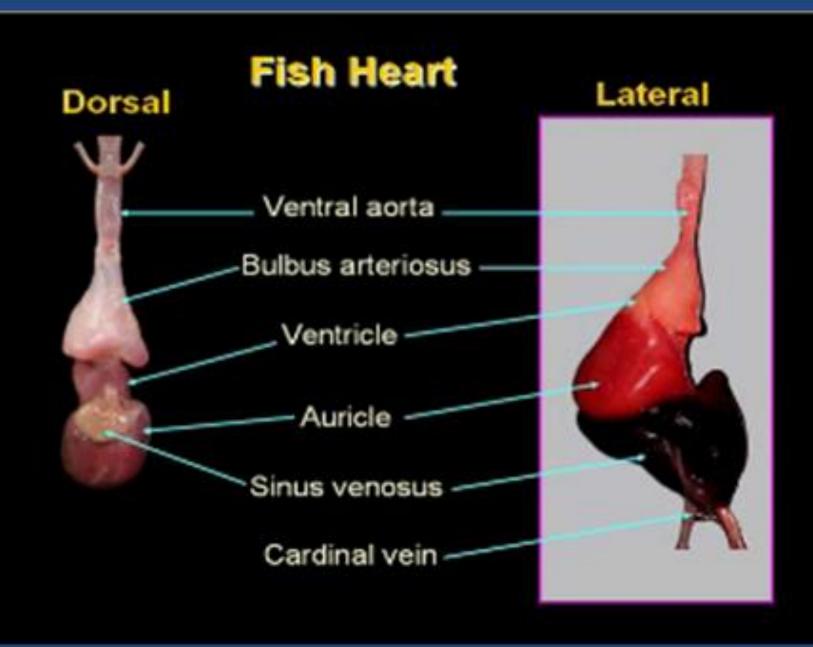




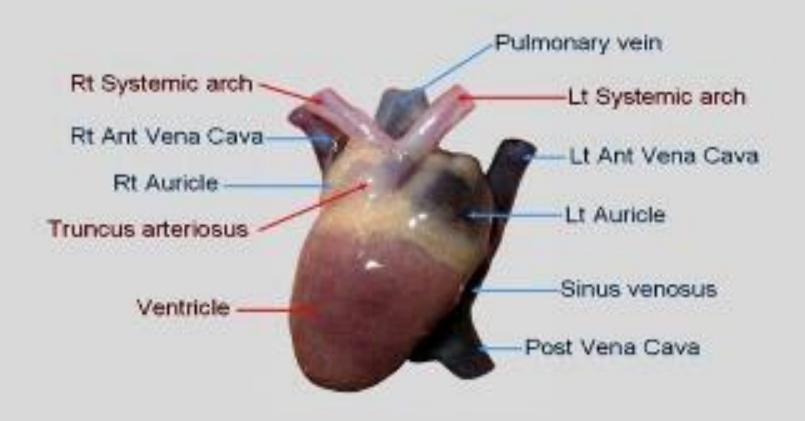




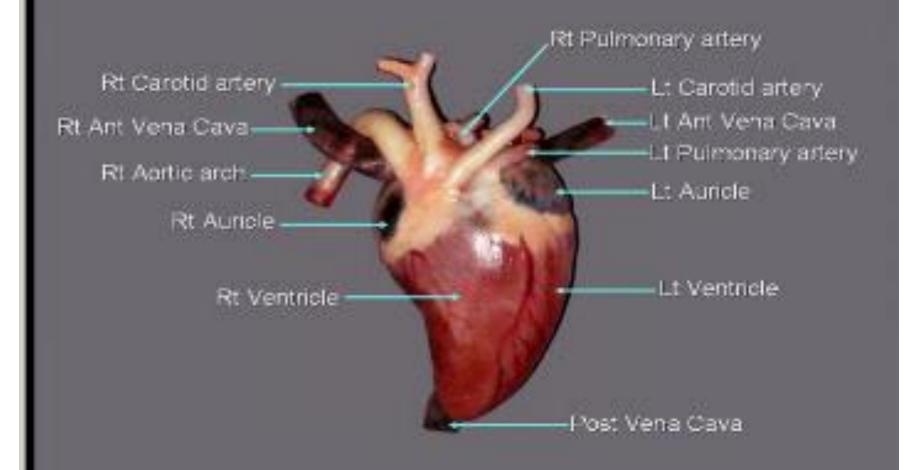




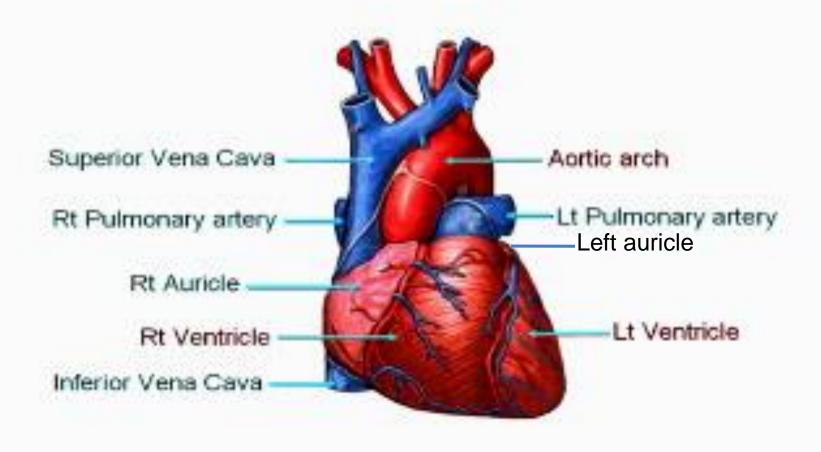
Toad Heart Ventral View



Fowl Heart Ventral View



Mammalian Heart Ventral View



Trachea

Longitudinal section Mammalian heart through heart(Mammal) Acrtic arch

Semi lunar valve

Superior vena cava

Rt auricle,

Tricuspid valve

Chordae tendinae

Rt ventricle-

Inferior vena cava Pulmonary artery

Pul. vein

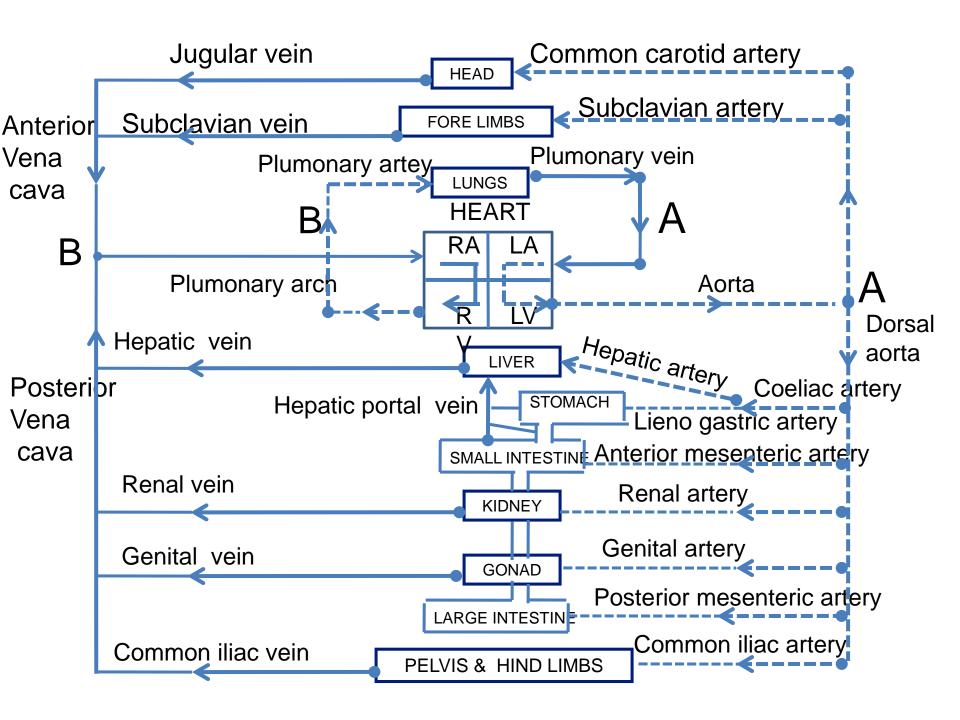
Lt auricle

Bicuspid valve

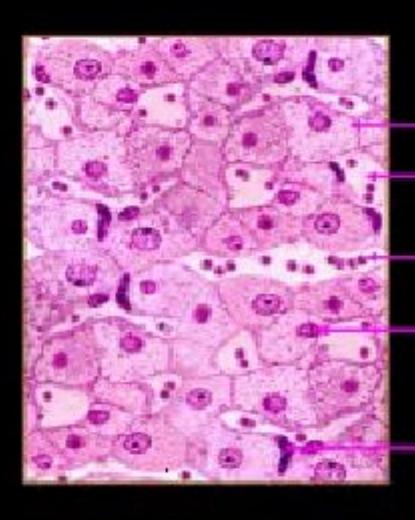
Lt ventricle

'Inter ventricular septum

Dorsal aorta



Liver tissue



Liver cell

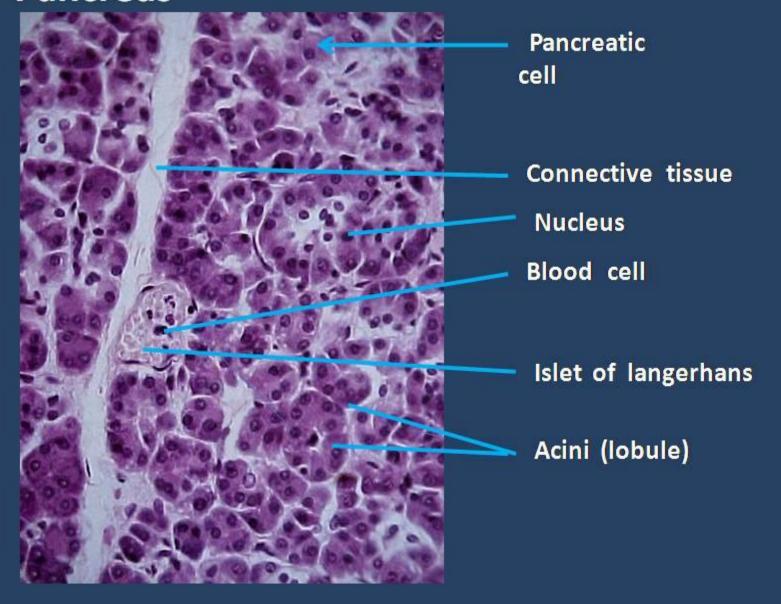
Sinusoid

Blood cell

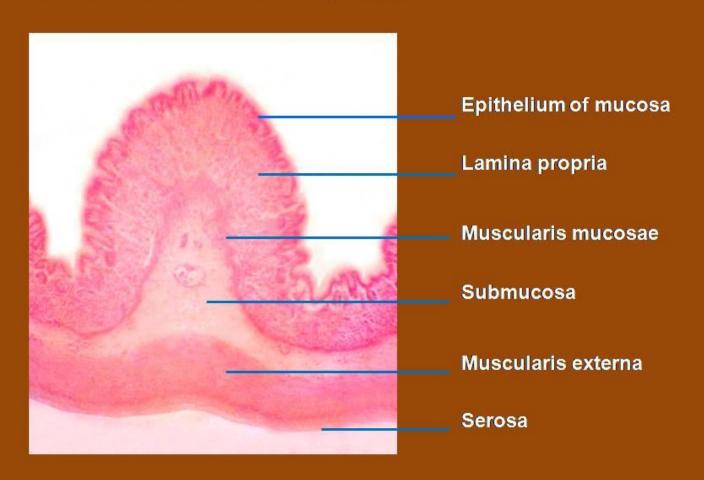
Nucleus

Kupffer cell

Pancreas



Cardiac stomach (frog)



Excretory System of Rabbit

Posterior vena cava

Adrenal gland Left kidney Dorsal aorta Left ureter Bladder Urethra Penis

Brain of rabbit (dorsal view)

Lateral fissure

Pineal body
Optic lobe
Floccular lobe

Vermis



Cerebral hemisphere

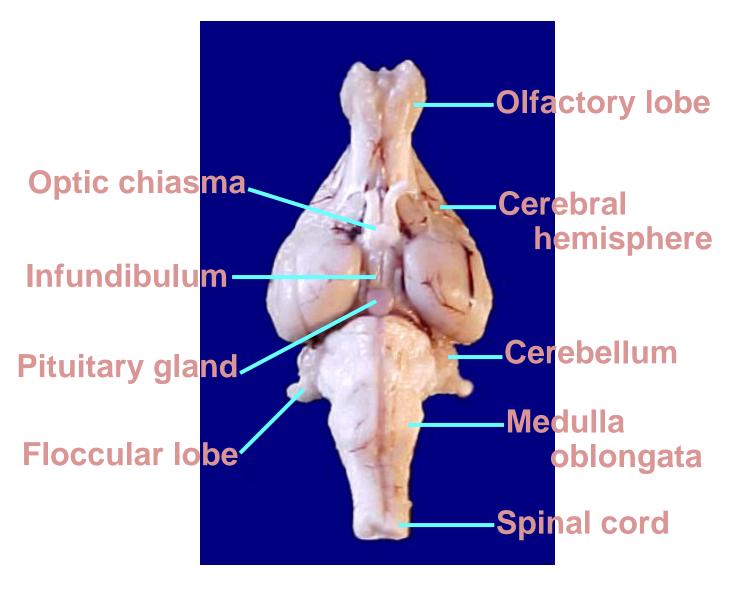
Sulcus

Cerebellum

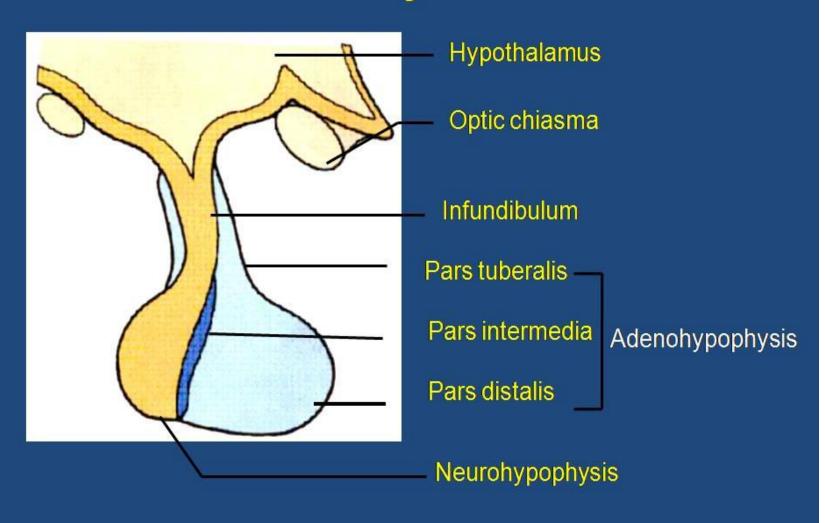
Medulla oblongata

Spinal cord

Rabbit Brain Ventral View



Pituitary



Thank You