

# FROG DISSECTION

EXTERNAL AND  
INTERNAL  
ANATOMY

# EXTERNAL ANATOMY



- Notice how thin the **Skin** is.
- Locate the external **Nares** or nostrils
- Locate the **Eyes** and find the **Nictitating Membrane**, a 3rd eyelid -
  - This covers the eyes when the frog is under water.
- Locate the **Tympanic Membrane** (large circular areas) or ear drums just posterior to the eyes.



- Locate the **Shoulder, Elbow, and Wrist Joints** of the **Forelimbs**.
- How many **Digits**(fingers) are there to a **Forelimb**?
- Near the end of the body is the opening of the **Cloaca**(feces, urine, and reproductive cells are expelled here)

# HINDLIMBS

- Examine the muscular **Hindlimbs**
- Locate the **Thigh, Knee, and Ankle Joints**
- Examine the **Webs** of the foot.
- How many **Digits** are there to each Hindlimb?





# INSIDE THE MOUTH

- Pry the **Mouth** open. Cut **Jaws** at joints. Examine inside of mouth.
- **Eustachian Tubes** are near the corners of the mouth . Insert probe into opening and push-observe where it comes out.
- Two large **Muscular Pads** are in the roof of the mouth(eyes retract here when it blinks)
- Locate **Tongue**.What unusual features do you notice?



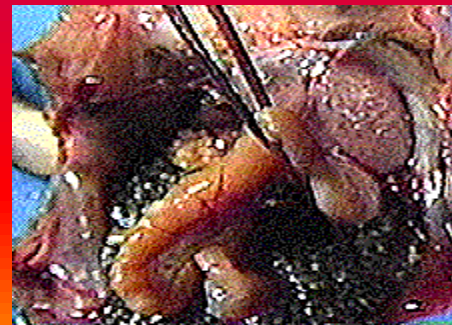
# TEETH

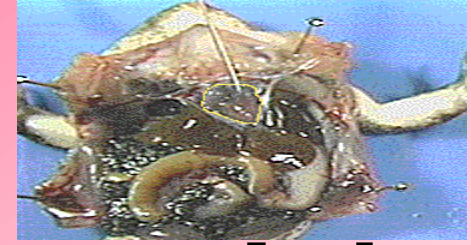
- Find two bony knobs projecting from the upper roof of the mouth
- These are the **Vomerine teeth**.
- If you rub your finger along the inside of the jaw, you will feel the **Maxillary Teeth**.



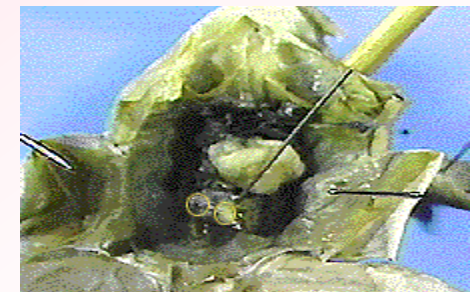
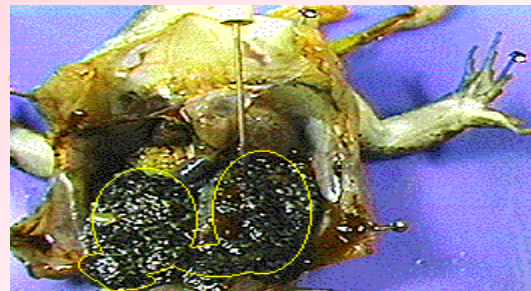
# INTERNAL ANATOMY

- With forceps lift **Skin** over the frog's abdomen and cut away.
- The large brown gland of 3 lobes is the **Liver**.
- Locate **Gall Bladder**(greenish sac under left lobes of liver).
- Beneath liver is the **Stomach**.
- Locate **Small Intestine** (attached to end of stomach)
- Locate **Large Intestine**.





- Cut the **Pericardium** that surrounds the **Heart** and observe the three chambers.
- Locate two **Lungs**.
- Against the back body wall are two oblong **Kidneys**(males have oval **Testis** attached to each kidney-females have **Ovaries** which may have eggs)
- Cut away long fingerlike projections called **Fat Bodies**

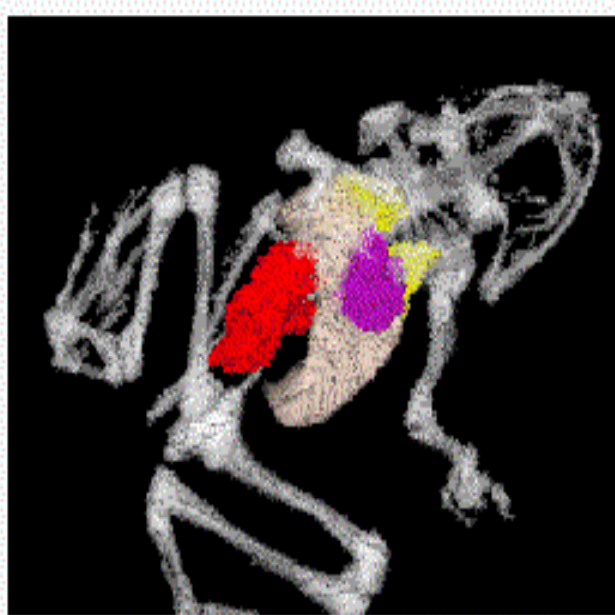
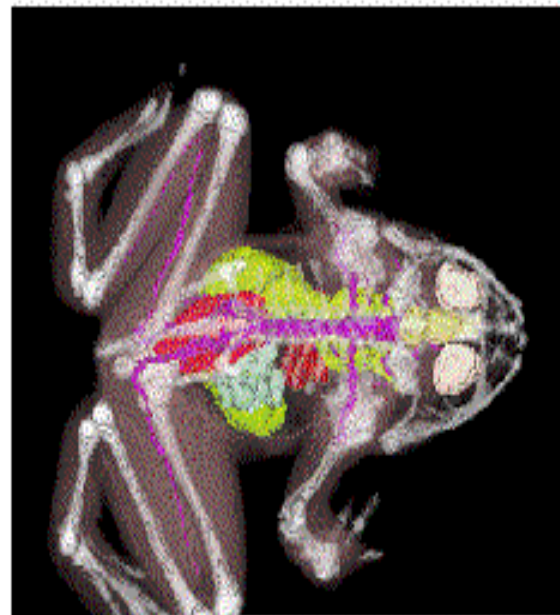
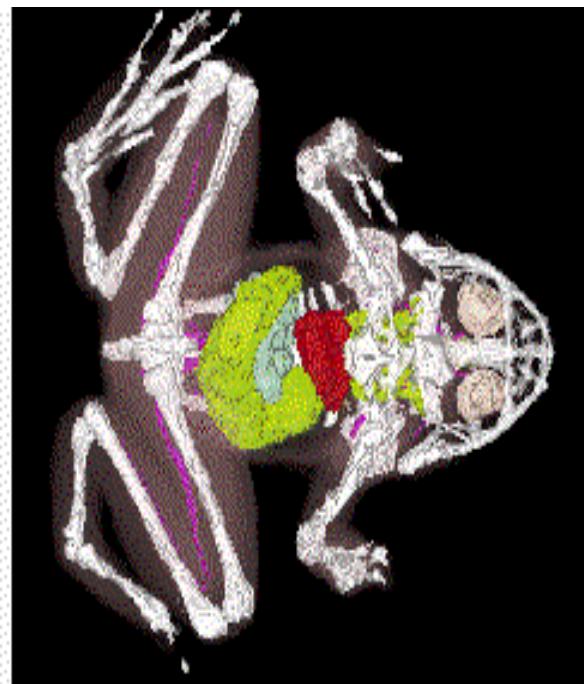
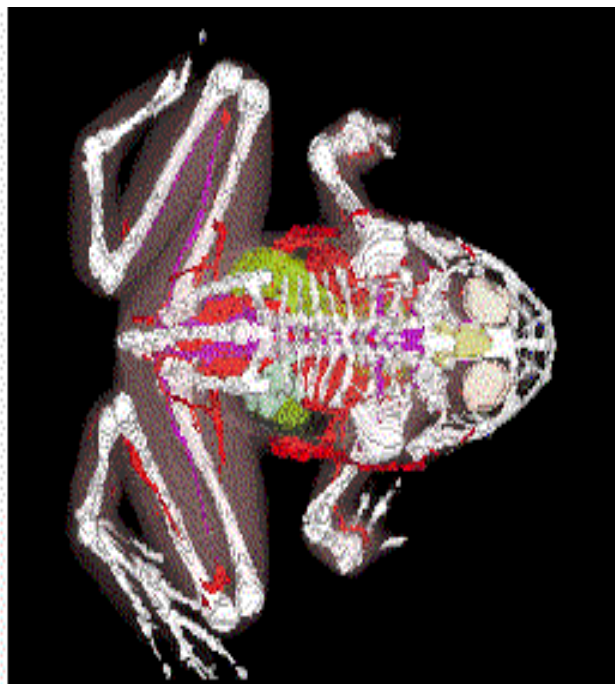
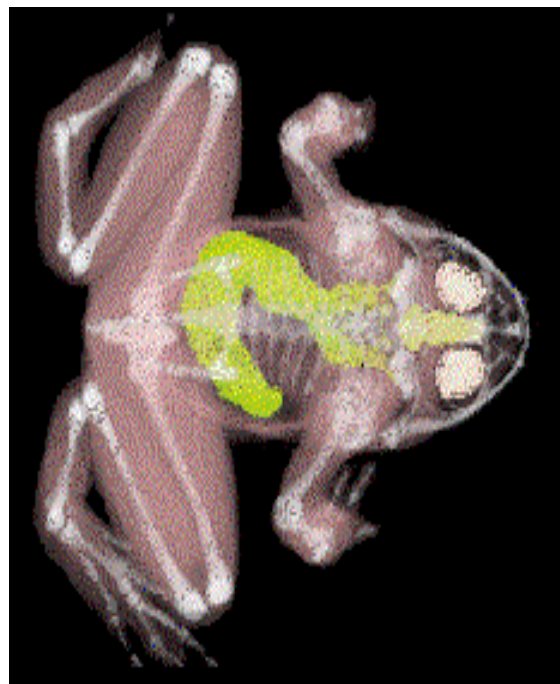




# BRAIN

- Remove skin from top of head and neck.
- Cut through **Cranium** to expose brain.





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