

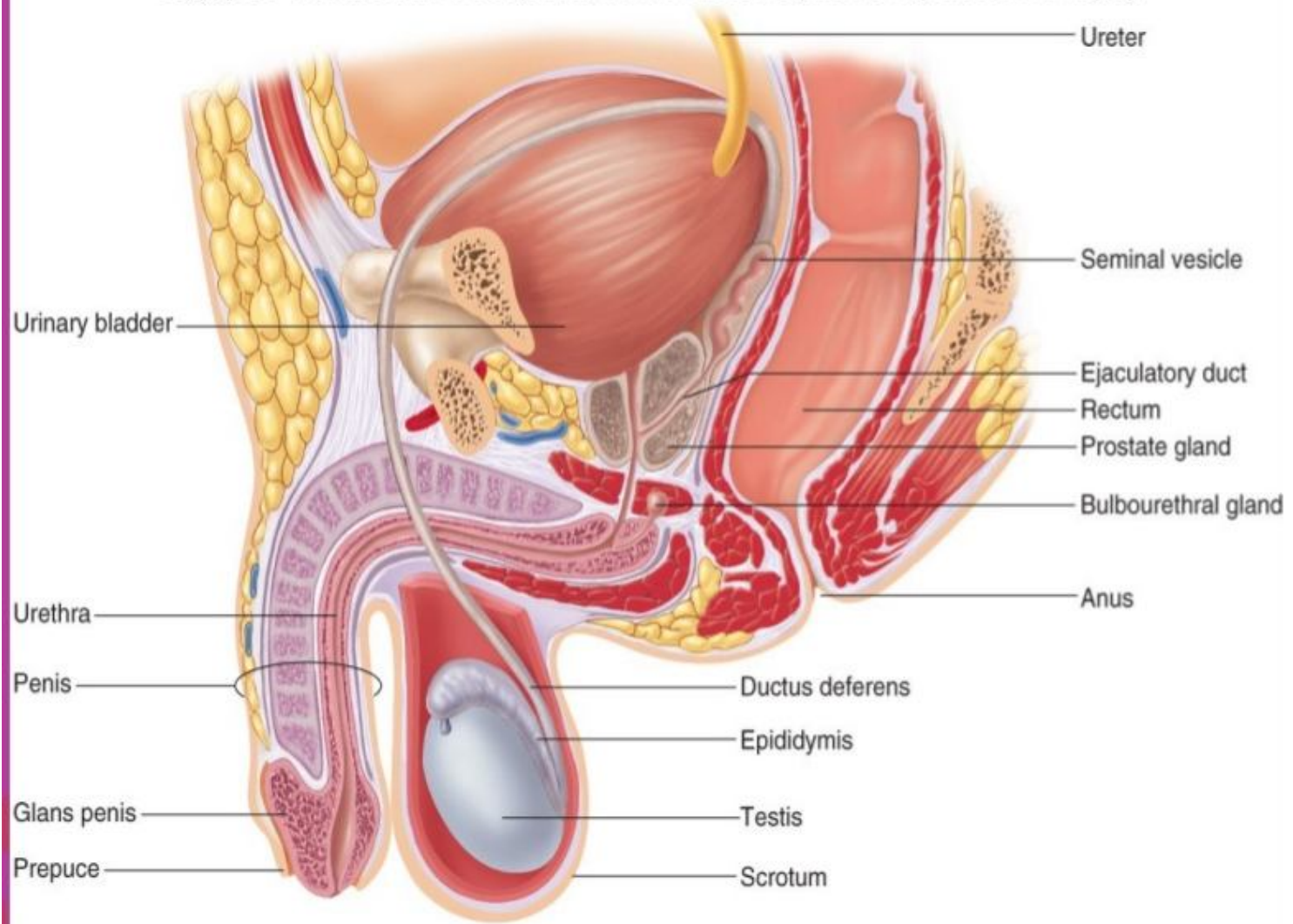
# SEM IV ZOOA

## CC8 UNIT 5: URINOGENITAL SYSTEM (Part - 7)

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Medial view

# MALE REPRODUCTIVE SYSTEM

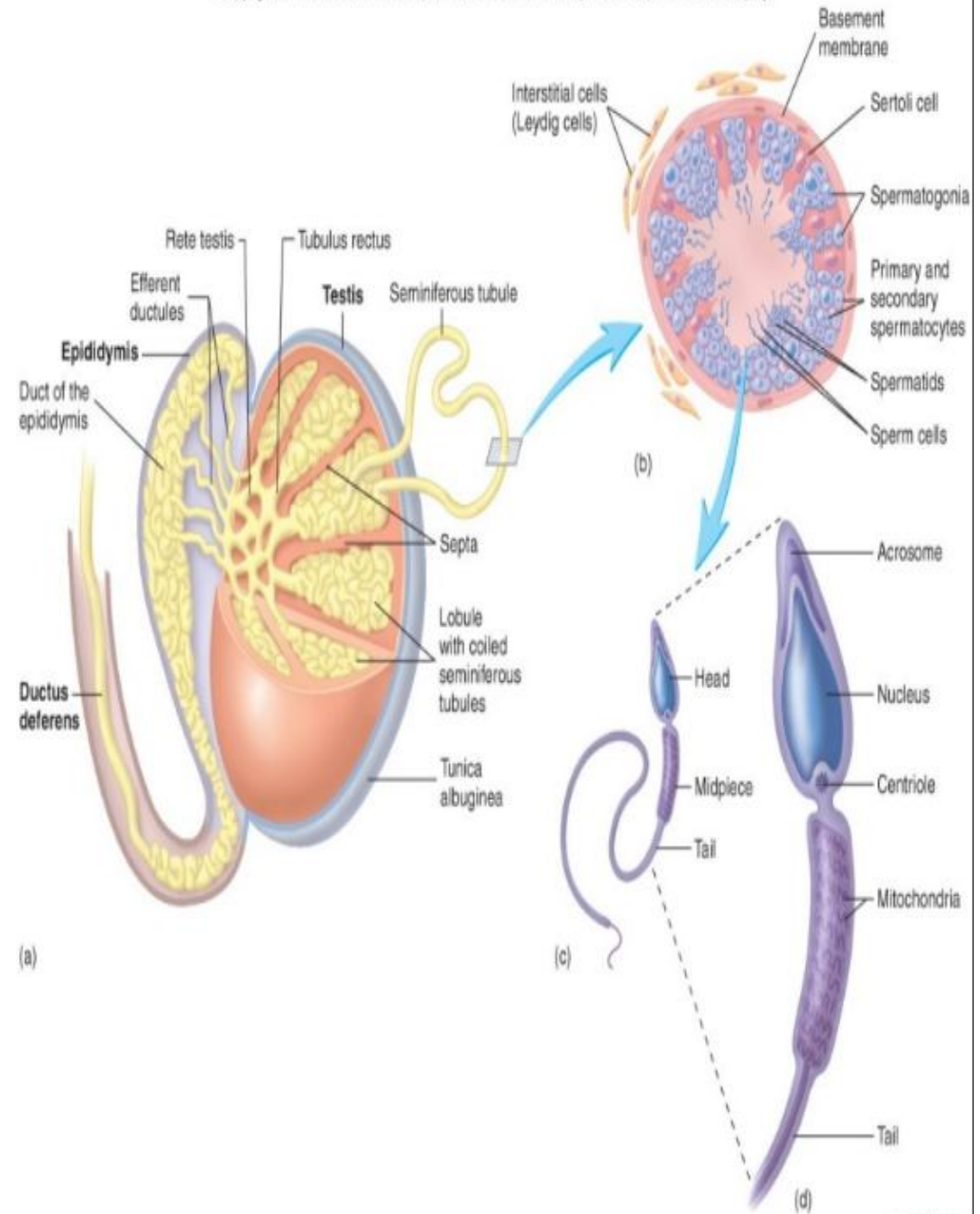
- Functions of the male reproductive system are:
- Production of sperm cells
- Sustaining and transfer of the sperm cells to the female
- Production of male sex hormones

- **Scrotum**

- A sac containing the testes
- Intrascrotal temperature is kept constant by two sets of muscles:
  - Dartos: smooth muscle that wrinkles scrotal skin
  - Cremaster: bands of skeletal muscle that elevate the testes

## ○ Testes

- ***Seminiferous tubules*** “sperm factories”:
- Produce the sperm
- Mature spermatozoa will move to the rete testis → efferent ductules → epididymis → ductus deferens
- Also an endocrine gland as they produce **testosterone**





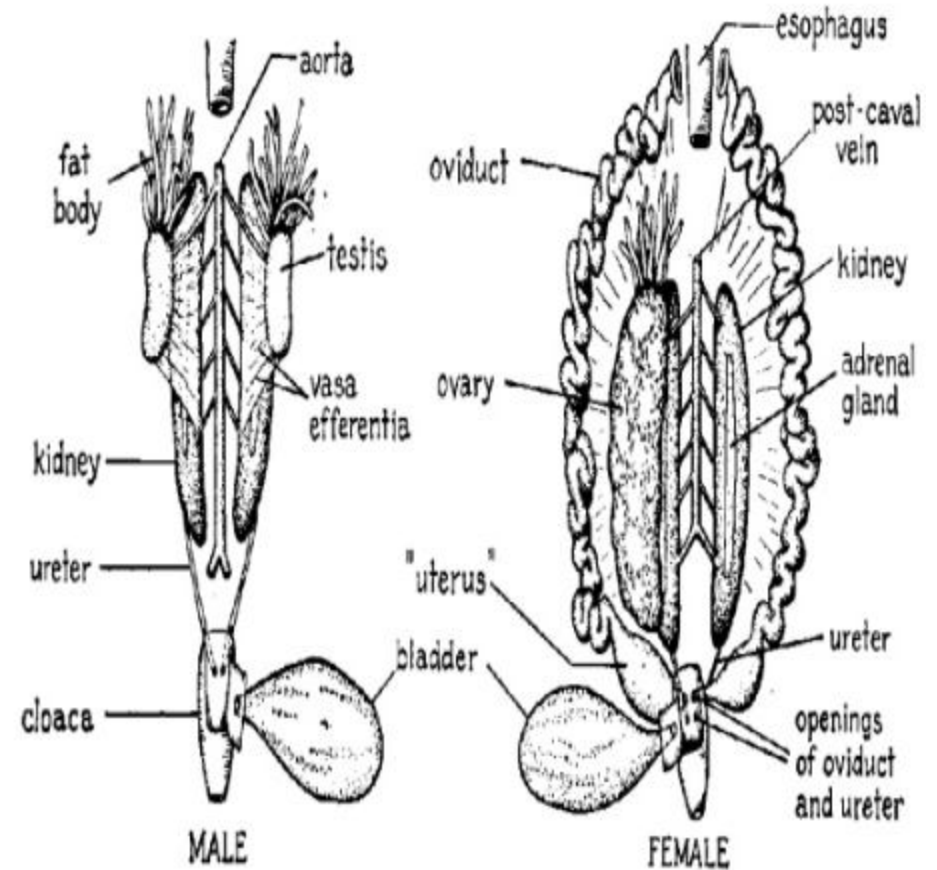
# ELASMOBRANCHS' TESTES

- Paired symmetrical structures
- Suspended by mesorchium
- Other fishes have elongated and lobulated testes.



# AMPHIBIAN TESTES

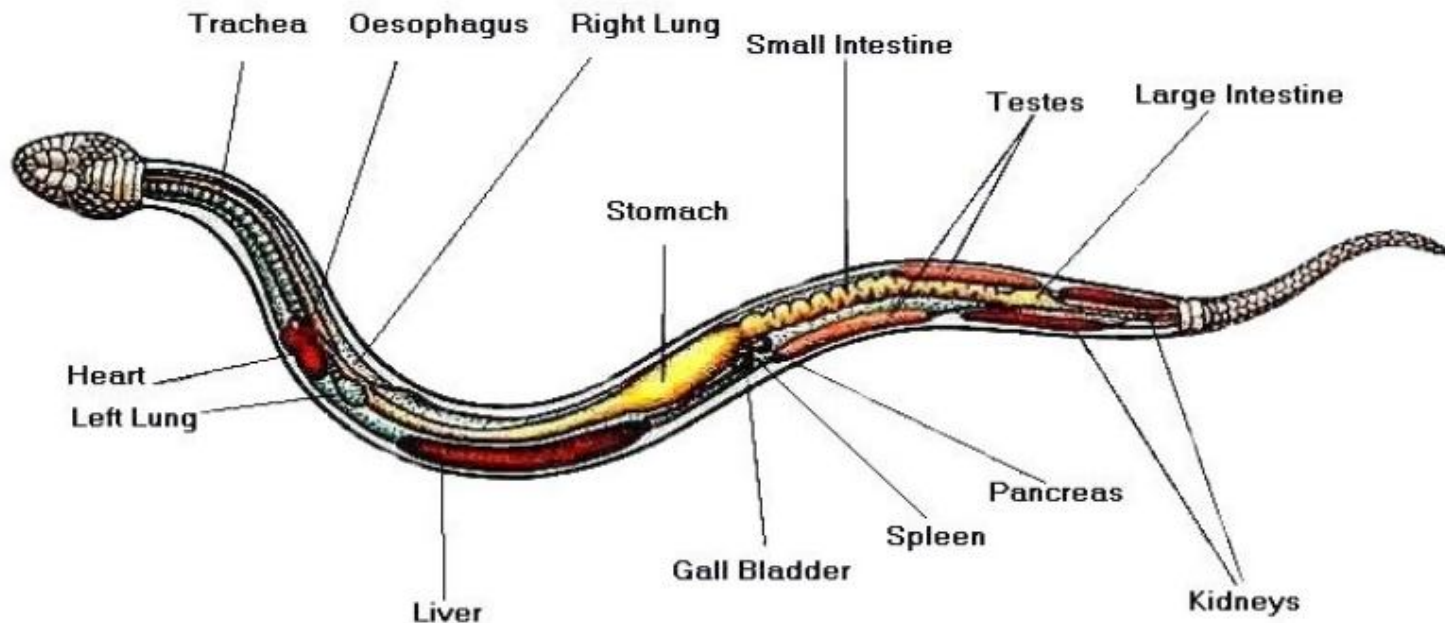
- Shape corresponds to body shape
- Elongated in caecilians, short or irregular in urodeles
- Oval or rounded and more compact in anurans



Excretory and reproductive organs (urogenital system) of the frog in ventral view. Cloaca opened ventrally to show entrance of ducts (enlarged) and the bladder turned aside. Aorta and arteries shown in male, and postcaval vein in female; left ovary omitted.

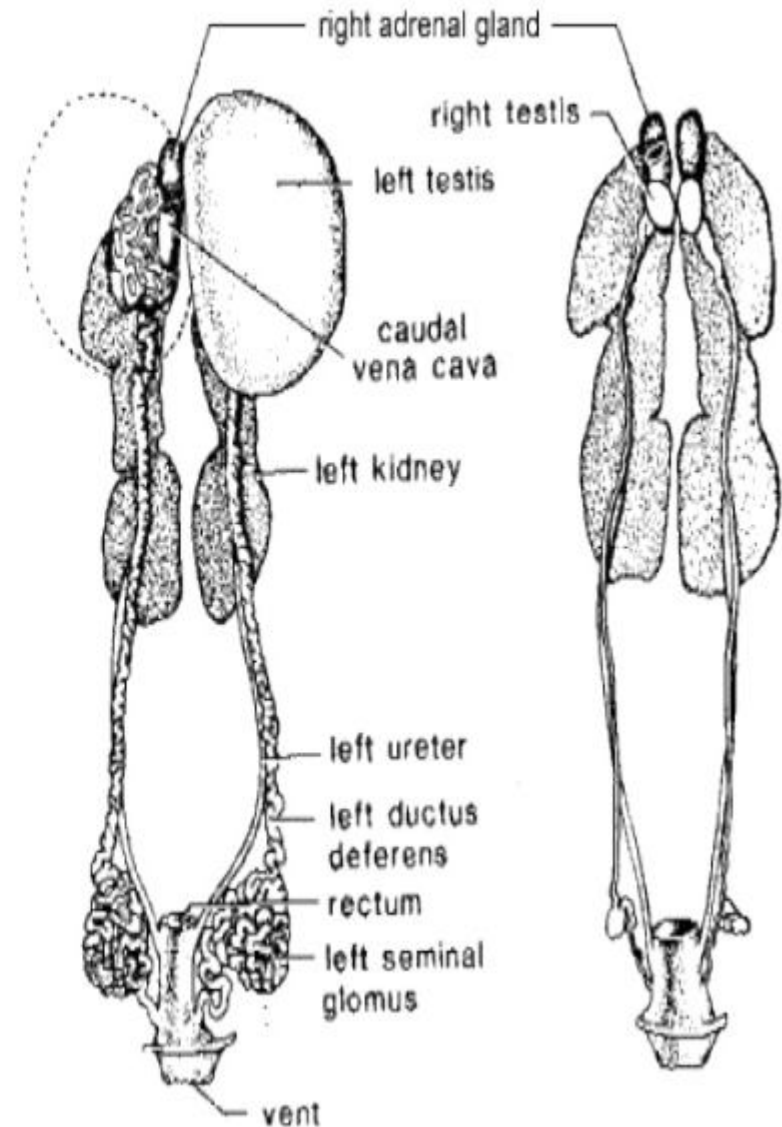
# REPTILES' TESTES

- Oval rounded or pyriform compact structures
- Snakes' and lizards testes' have onetestes that occupies farther forward in the body cavity than the other



# BIRDS' TESTES

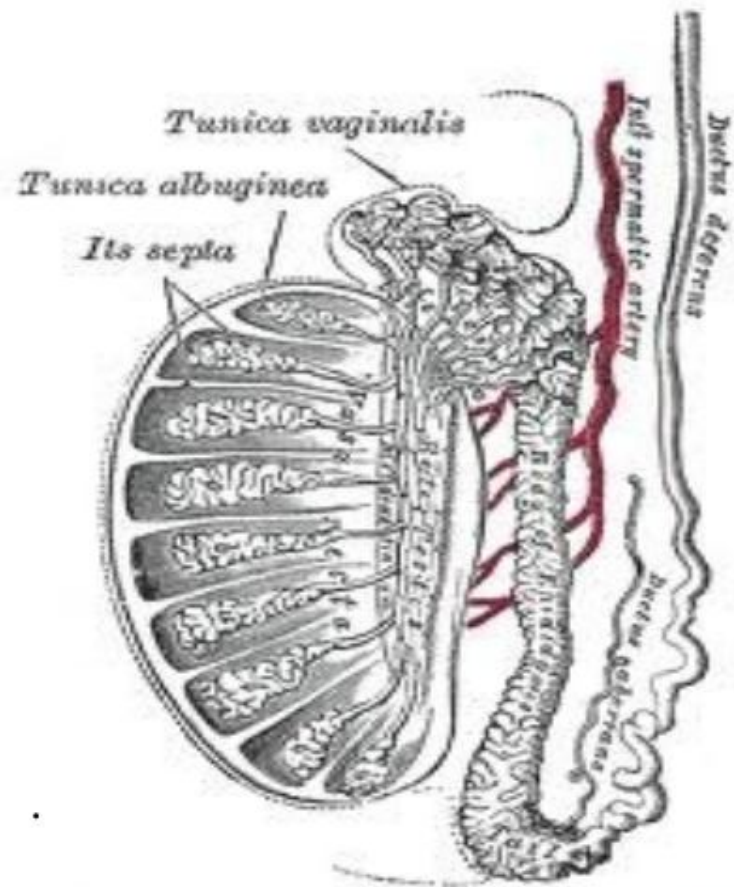
- Oval or round-shaped and changes in size depending on the period of the year.





# MAMMALIAN TESTES

- **Tunica albuginea** a thin tough fibrous envelop of the testis
- **Scrotum** serves to regulate the temperature ideal for the testes to be able to produce viable sperm cells
- **Vaginal sac** is a diverticulum of the peritoneum into the scrotum
- **Tunica vaginalis** is the extension from vaginal sac that comes in close contact with the tunica albuginea



## **REFERENCES:**

**Kent, George C & Carr, Robert K. Comparative Anatomy of the Vertebrates. *Urinogenital System.***