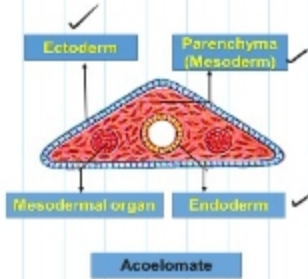


Classification on Base of Coelom (Body cavity)

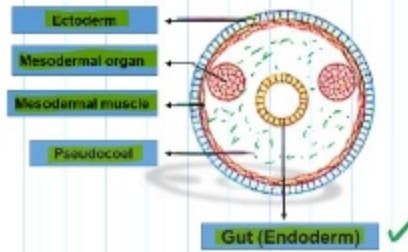
Sunday, July 9, 2023 3:04 PM



ACOELOMATE

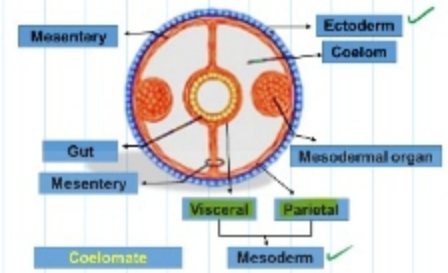
- No Body Cavity
- Mesoderm → Loose Cellular tissue (Mesenchymal/parenchyma)
- Space between Ectoderm & Endoderm
- Gut → Sac-like
- No Special Transport System
- Flame Cells → Excretory organ
- Nervous System → well-developed
- Example → Platyhelminthes

TRIPLOBLASTIC



PSEUDOCOELOMATE

- False Body Cavity
- Space between → Body wall → Pseudocoeloma → digestive Tube
- Pseudocoelom → Not Homologous To true Coelom
- Not lined by → Coelomic Epithelium
- Develops → Blastocoel
- Example → Aschelminths (Round-worm)



COELOMATE

- True Body Cavity
- Space between → Body wall → Mesoderm → alimentary canal
- Mesoderm splits → outer → parietal layer → Coelom → (Coelomic fluid) → inner → visceral layer
- Gut more Complex
- All Systems → developed
- Example → (Annelids → chordates)

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