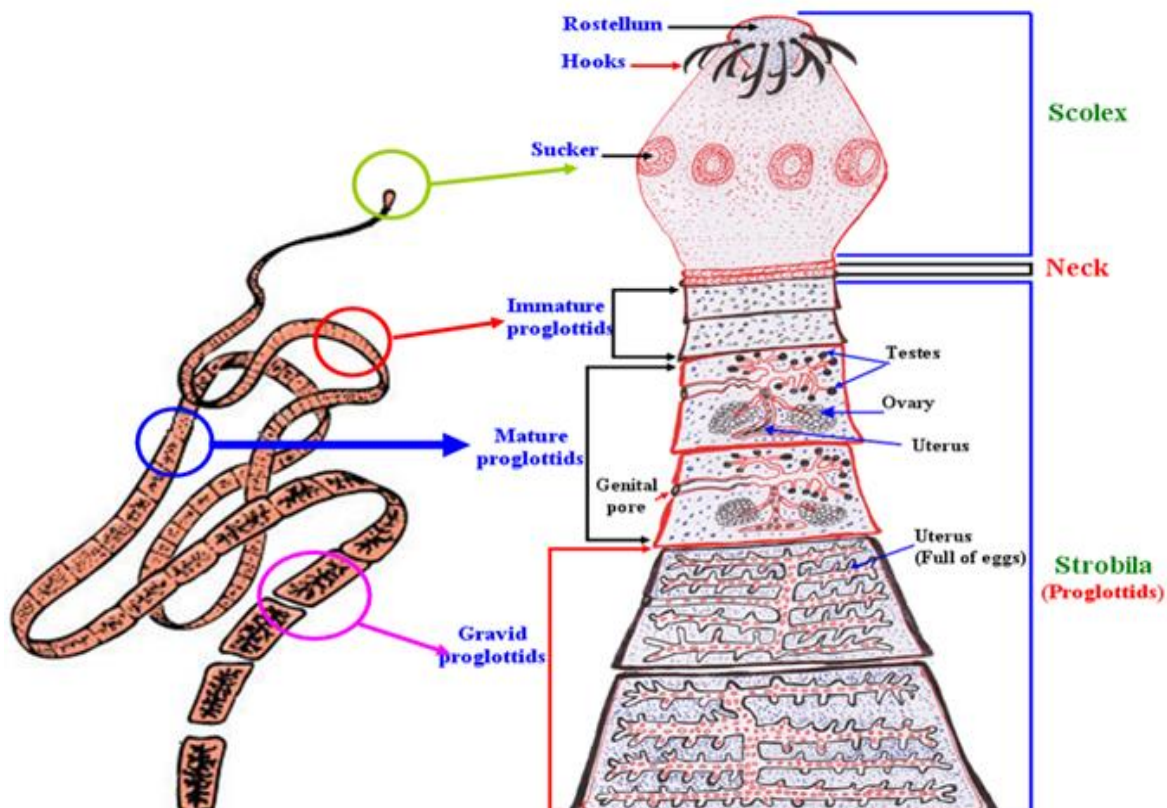


3. Class: Cestoda (Subclass: Eucestoda); General Characteristics:

- Adult Cestodes are endoparasites live in vertebrates' digestive canal, e.g., Man, dog.
- Body is dorso-ventrally flattened; bilaterally symmetrical; divided into 3 regions:
 1. **Scolex** (head): bears attaching organs like suckers, hooks, bothria or bothridium.
 2. **Neck** (growth area): contains a line of germinal cells which give asexual budding to form the proglottids in a process called Strobilation.
 3. **Strobila**: consisted of many proglottids (segments) that are divided into three regions:
 - a) Immature proglottids.
 - b) Mature proglottids: Each proglottid includes testes, uterus and ovary.
 - c) Gravid proglottids: Each proglottid includes uterus full of eggs only.
- Circulatory and digestive system are not found. Digestive food absorb through body surface.
- Reproduction is sexual; each mature proglottid includes a set of testes and ovary.
- The lifecycle is complex and indirect with more than one host in lifecycle.

Egg (in feces) → **larval stage** (in tissues of intermediate host) → **Adult** (in final host intestine).



Kingdom: Animalia

Phylum Platyhelminthes

Class Cestoda

Order: Cyclophyllidea

Family: Taeniidae

Taenia saginata (The Beef Tapeworm)

Taenia solium (The Pork tapeworm)

	<i>Taenia saginata</i>	<i>Taenia solium</i>
Common name	The Beef Tapeworm	The Pork Tapeworm
Habitat	Small intestine	Small intestine
Route of infection	Eating of unwell cooked cow meat	Eating of unwell cooked Pork meat or ingestion of eggs in human fecal contamination
Definitive host	Human	Human
Intermediate host	Cows also other herbivores	Pork or Swine. Human (occasional)
Larval stage in intermediate host	Cysticercus bovis	Cysticercus cellulose
Infective stage	Cysticercus larvae	Cysticercus larvae
Diagnostic stage	Eggs or gravid proglottid with 15-20 lateral uterine branches on each side in feces.	Eggs or proglottid chains (with 7-13 lateral branch on each side) in stool for adult worms; biopsy removal of larva from tissue site
Disease	Adults cause: Taeniasis	Taeniasis, Larvae cause: Cysticercosis (presences of Cysticercus larvae in brain and muscles.
Important characters	Scolex has four suckers, no rostellum or hooks, gravid segment have 15-20 lateral branches.	Scolex has four suckers, rostellum and two rows of hooklets, gravid segment have 7-12 lateral branches