

INTRODUCTION

- Grade Bilateria → Bilateral-Symmetry
- Triploblastic-animal → Acoelomate

CHARACTERISTICS

Size → Few mm → 5 meters

- **15000 species**

MODE OF LIFE

→ Parasitic Mode → Endoparasite

- Taenia solium → **Tapeworm**
- Fasciola hepatica → **Liver fluke**
- Schistosoma → **Blood fluke**

→ Free-Living

- Dugesia → **Planaria**

BODY STRUCTURE

- Soft Body, dorso-ventrally Compressed
- Unsegmented

• Mesoderm → Separate Ectoderm from Endoderm

DIGESTIVE-SYSTEM

- Sac-like
- Absent → **Tapeworm**

NERVOUS-SYSTEM

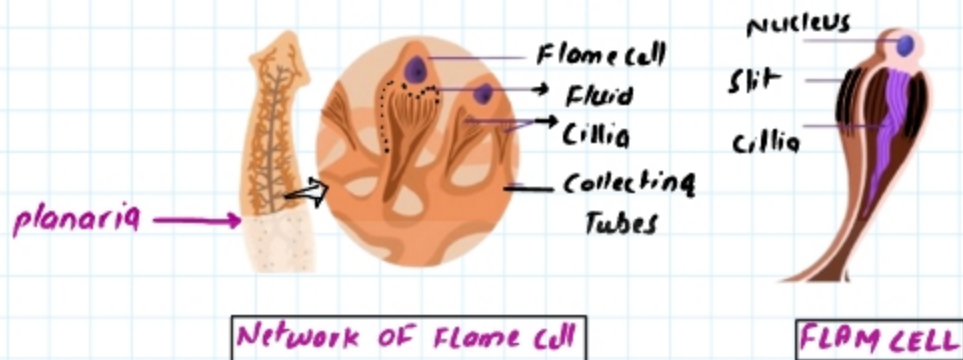
- Well-developed Nervous-System
- Network of → **Nerves or Ganglia**

EXCRETORY SYSTEM

- Protonephridia → **FLAM CELLS**

nucleus

- Protonephridia → **FLAM CELLS**



FEEDING

- Parasites → Absorb nutrients → Host
- Free-Living → feed small → Animals, Dead body

REPRODUCTION

- ## • 1 Asexual-Reproduction

- Binary fission
- Regeneration

- 2 Sexual- Reproduction

- Hermaphrodite ♀♂

- **Larvae** → Present in some species

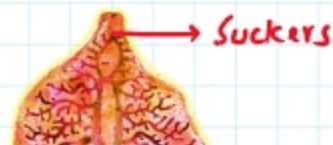
- Fertilization → Always Internal

EXAMPLES

- **Planaria** → Dugesia → Free-living → outer surface → ciliated
- **Liver fluke**



- Fasciola hepatica
- Endo Parasite → sheep, human
- Suckers → Attachment
- Two-host — snail
sheep | man
- Bile-Duct → Host



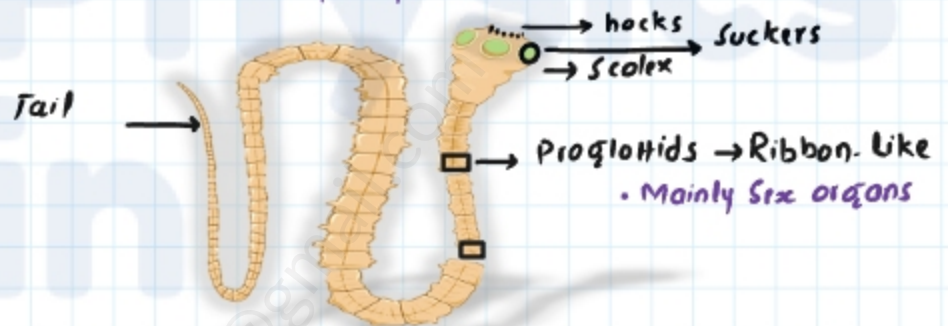


• Tapeworm

→ *Taenia solium* / *Taenia saginata*

→ Endoparasite → Host → Human, Pig, Cattle

→ Life-cycle → 2 Host



→ Intermediate host → Pig OR cattle

ECONOMIC IMPORTANCE

• Infestation → Infection Due To Parasite

• Disinfestation → Removal of parasite → Medication

→ Infestation

- Retarded Growth
- Nausea, Vomiting
- Weight loss
- Abdominal Pain
- Nervous disorders → Epilepsy

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