MUSEUM COLLECTION

NEMATHELMINTHES

Specimens & Permanent slides

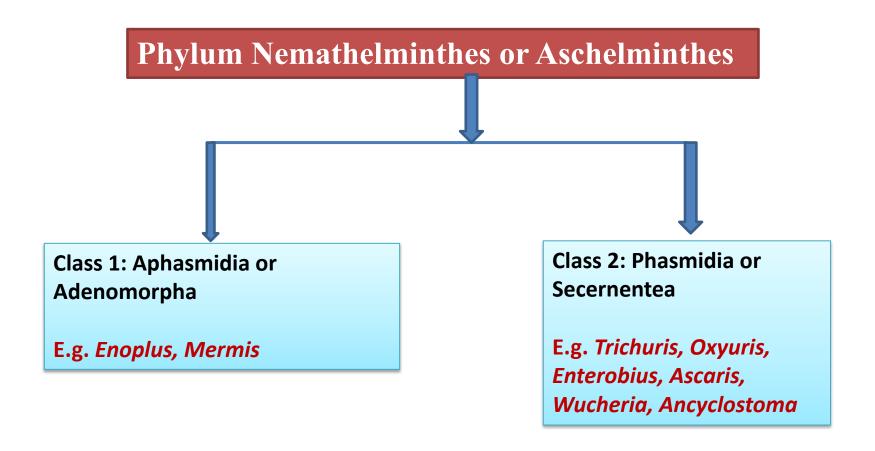
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Picture credit.- Shalini Panwar

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NEMATHELMINTHES

- Their body is bilaterally symmetrical and triploblastic.
- They are cylindrical in shape.
- They exhibit tissue level organization.
- Their body has a cavity or pseudocoelom.
- The alimentary canal is distinct, with the mouth and the anus.
- They are sexually dimorphic.
- They are devoid of the circulatory system and respiratory system.
- They are free-living or parasitic.
- Parasitic nematodes cause diseases in the host.
- Fertilization is internal and reproduction is sexual.
- Their cuticle moults periodically.
- The epidermis is synctical and contains dorsal or ventral nerve cords.
- The body-wall muscles are longitudinal.
- They possess amoeboid sperm cells.
- They consist of chemosensory organs called aphids situated on the lips.

Ascaris lumbricoides

Common name: Round worm

Geographical distribution: It is found worldwide, but it's more

frequently found in tropical and subtropical regions,

Scientific Classification

Kingdom: Animalia (Multicellular, eukaryotic, heterotrophic)

Phylum: Platyhelminthes (simple bilaterian, unsegmented,

soft-bodied invertebrates.)

Phylum: Nemathelminthes or Aschelminthes (unsegmented,

triploblastic, pseudocoelom, dioecious,)

Class: Phasmidia (unicellular sensilia in the lateral tail region)

Genus: Ascaris

Species: lumbricoides

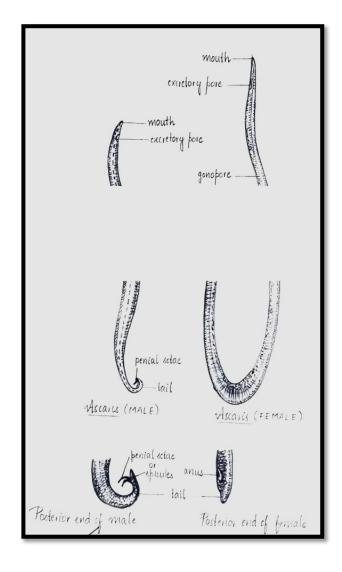


Ascaris Female

Ascaris lumbricoides

General Features

- 1. Ascaris lumbricoides is the giant roundworm
- 2. largest and most common parasitic worm in humans
- 3. Cosmopolitan in distribution
- 4. responsible for the disease ascariasis
- 5. Sexual dimorphism
- 6. Males: 2–4 mm (0.08–0.2 in) in diameter and 15–31 cm (5.9–12 in) long
- 7. Females: 3–6 mm (0.1–0.2 in) wide and 20–49 cm (7.9–19 in) long
- 8. Uteri may contain up to 27 million eggs at a time, with 200,000 being laid per day
- 9. Fertilized eggs are oval to round in shape with a thick outer shell
- 10. Unfertilized eggs are long twice as wide
- 11. No intermediate host in the life history





Ascaris lumbricoides



