

Phylum: Aschelminthes

Roundworms with Pseudocoelom

An anatomical and ecological overview of the unsegmented roundworms.

Digestive tract

50%

Digestive tract

2,600 μm

Runness

6.698ns

Cinposans (ennass)

Moliocomongons

120

Merophatulates

30% of in

Tublacles

\$400 bps

Nerve starts

Digestive tract



60

Poyons found

Nerve ring



1-2

Perve broad

Reproductive organs



200

Neproductkenes

Ronomen esimated

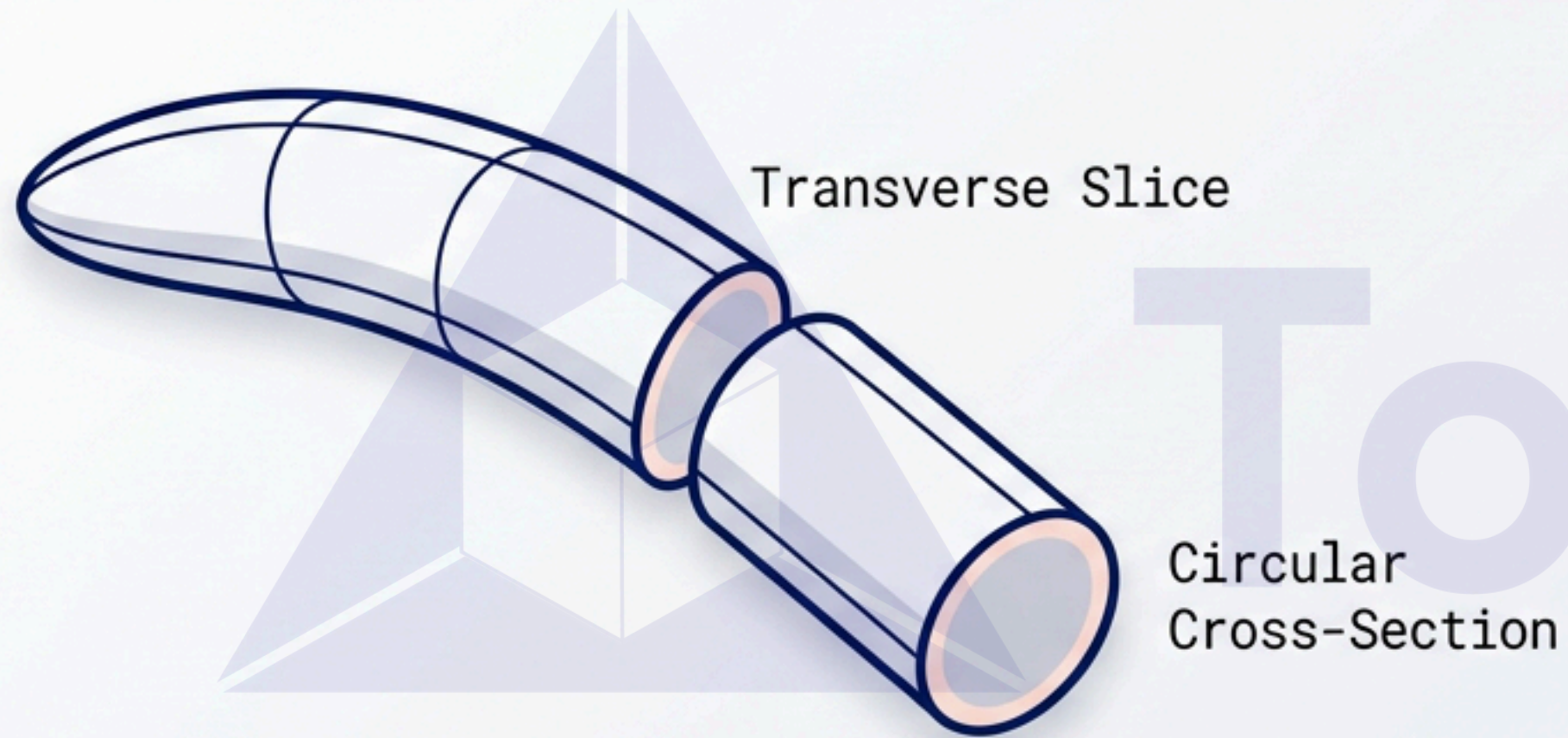


60

Reproducts organ



The Defining Shape



The body of the aschelminthes is circular in cross-section.

This unsegmented, cylindrical structure fundamentally differentiates them from the flattened bodies of **Platyhelminthes** (flatworms) and the segmented bodies of **Annelida** (segmented worms).

Versatile Ecological Adaptation



Free-Living

Found abundantly in aquatic environments (both marine and freshwater) and in terrestrial soil ecosystems.



Parasitic

Highly adapted to live within the internal tissues of plants and animals, often acting as significant pathogens.

ECOLOGICAL IMPACT

Nematodes are so abundant that parasitic forms represent a massive proportion of global biomass and significantly impact global agriculture and human health.



You've Learned the Theory. Let's Test Them Now.

$$E=mc^2$$



Turn theory into marks with **unlimited MCQs, smart analysis, and focused revision.**

Practice Now



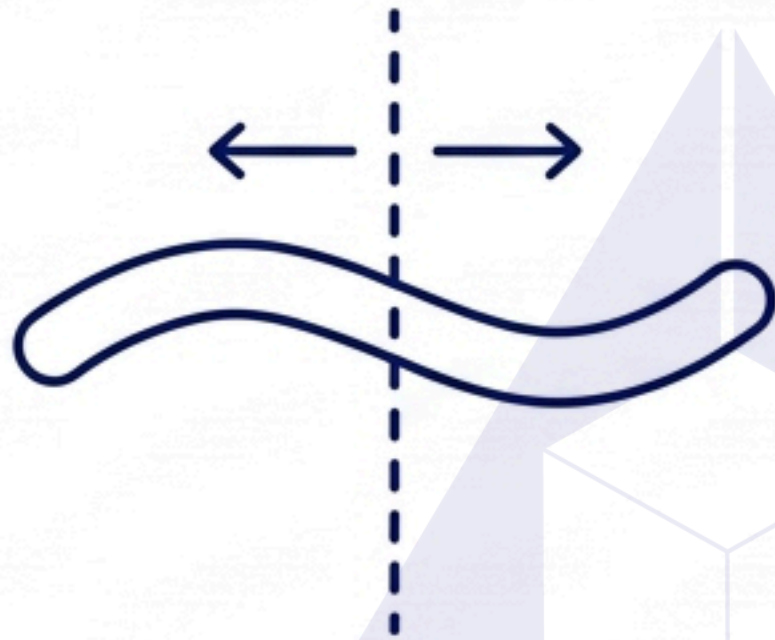
At prep.topall.app

Key Highlights

- » Free Study Material, Videos & Infographics
- » Push Your Limits with Level-Based Challenges
- » Climb the Leaderboard Among Fellow Aspirants
- » Practice Unlimited MCQs for NEET & JEE
- » Get Clear Explanations, Not Just Marks
- » Track Your Performance Smarter

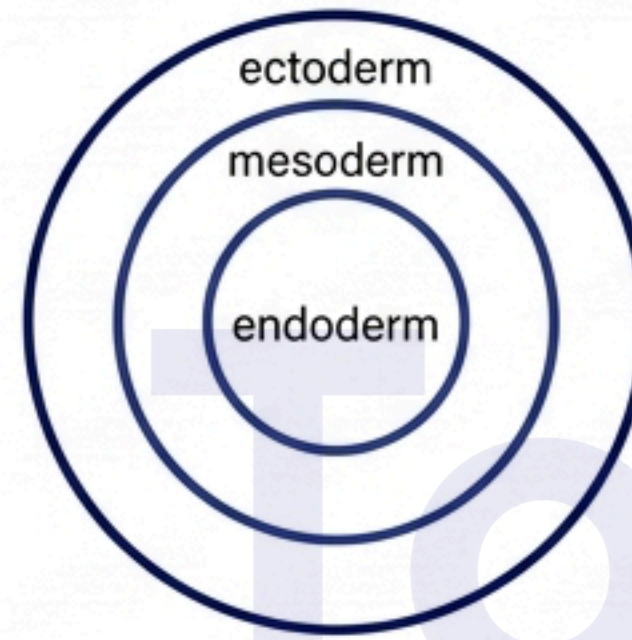


Organ-System Level of Organisation



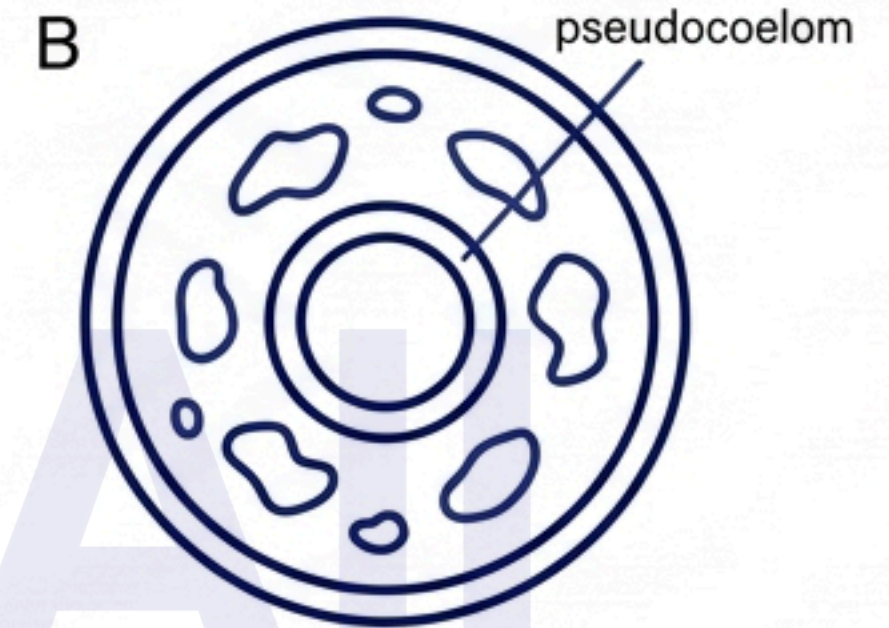
Bilateral Symmetry

The body can be divided into identical left and right halves in only one specific plane.



Triploblastic

Tissues develop from three distinct embryonic layers: the external ectoderm, the middle mesoderm, and the internal endoderm.



Pseudocoelomate

The body cavity (coelom) is not entirely lined by mesoderm. This false cavity sits between the ectoderm and endoderm.

Digestion and Excretion Systems

Complete Alimentary Canal

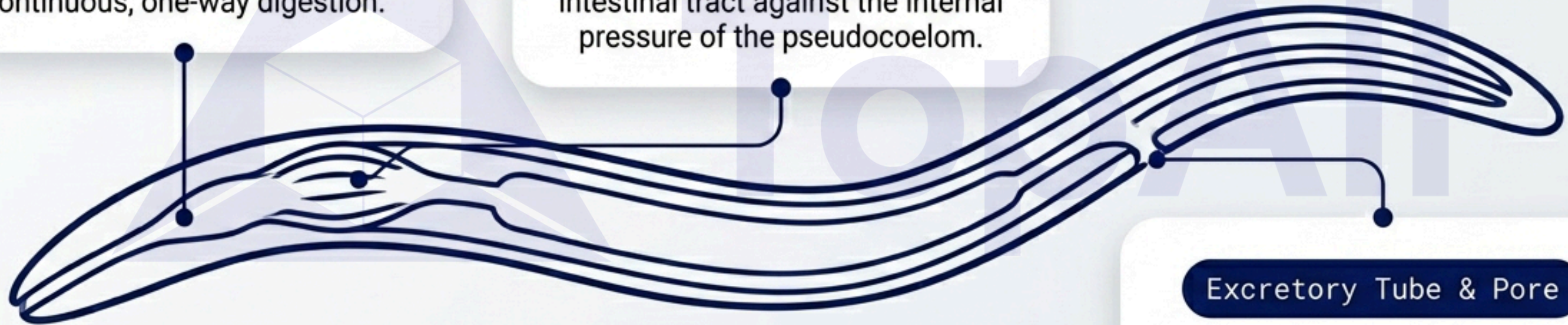
Features two distinct openings—a mouth at the anterior end and an anus at the posterior end—allowing continuous, one-way digestion.

Muscular Pharynx

A highly developed pumping organ situated just behind the mouth, crucial for forcefully drawing food into the intestinal tract against the internal pressure of the pseudocoelom.

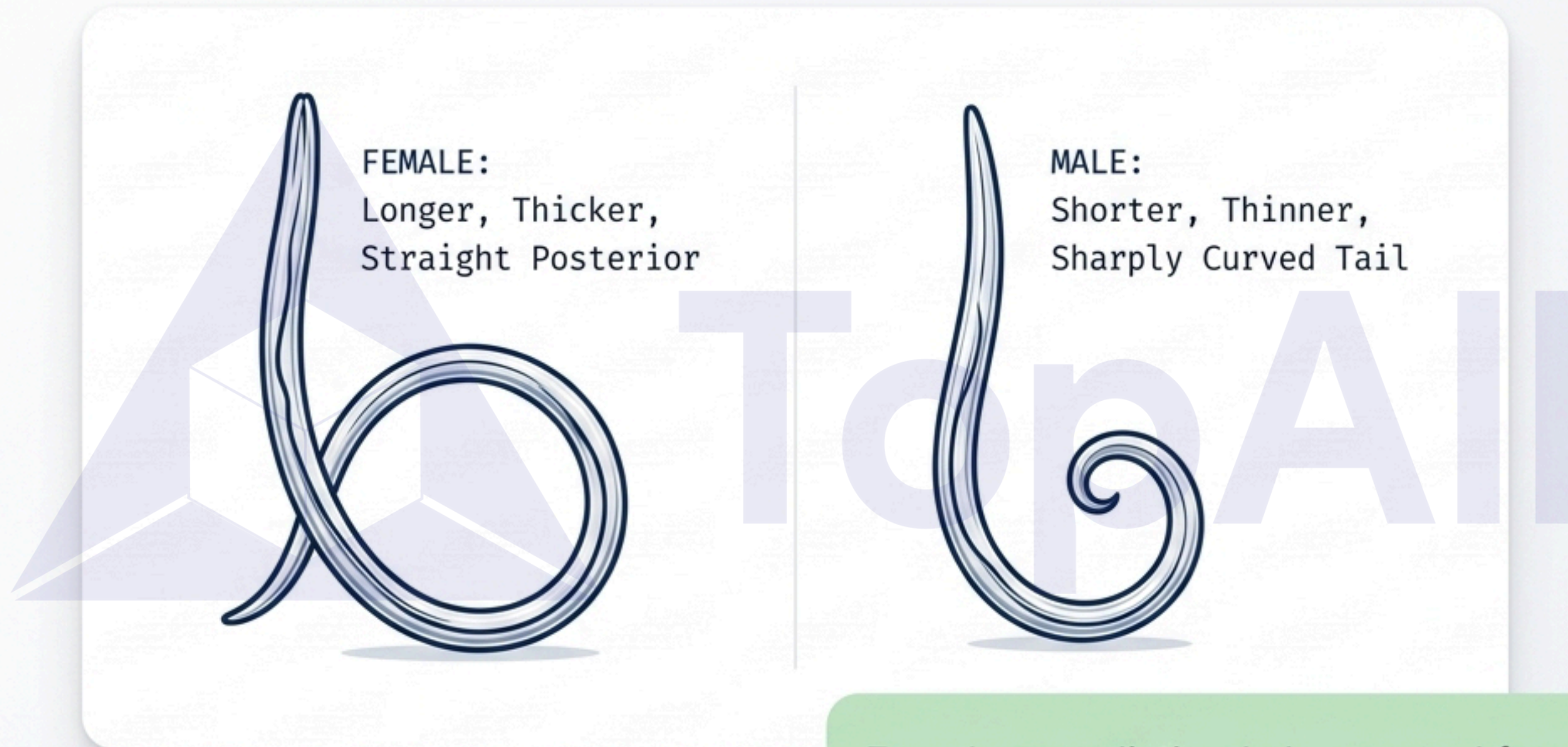
Excretory Tube & Pore

Dedicated excretory tubes collect metabolic wastes from the pseudocoelomic fluid and expel them outward through a specialized excretory pore.



Sexual Dimorphism in *Ascaris*

Dioecious (Sexes are distinct and separate)



Fertilisation is internal. Development can be direct (young resemble adults) or indirect (involving larval stages).

Females are distinctly longer and feature straight tails, whereas males are notably shorter with a characteristic hook-like curved tail.

Notable Species & Pathogens

Roundworm

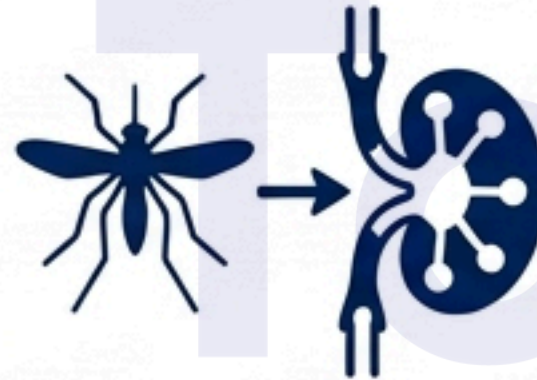
Ascaris



A widespread intestinal parasite that causes ascariasis in humans.

Filaria worm

Wuchereria



The parasitic agent responsible for lymphatic filariasis, commonly known as elephantiasis.

Hookworm

Ancylostoma



A soil-transmitted helminth that physically attaches to and feeds on the intestinal wall of its host.

WARNING: All three of these examples are significant human pathogens that require dedicated global public health interventions and sanitation practices to control.



You've Learned the Theory. Now Let's Test It.

Reading notes gets you knowledge.

Practicing MCQs gets you marks.

That's exactly what TopAll Pro is built for.

Try TopAll Pro Now

What TopAll Pro Does Differently

-  **Stuck? Snap it. Solve it. — Doubts AI**
Photo → step-by-step solution in seconds, 24/7
-  **Your AI Coach finds your blind spots**
Concept-level weakness detection — not just chapter-level
-  **4.5 Lakh+ questions. Never run out.**
13× more content than any other prep app in India
-  **Build your own test in 60 seconds**
Pick a chapter, set difficulty — AI does the rest instantly.
-  **AI Recommendation that helps you improve**
AI Recommendation Analysis your Tests and tell you where you need to improve.



Practice the moment you finish studying
Jump in while the concept is still fresh in your head

4.5L+
MCQs

1.5L+
Students

AI Powered
In-Depth Analysis