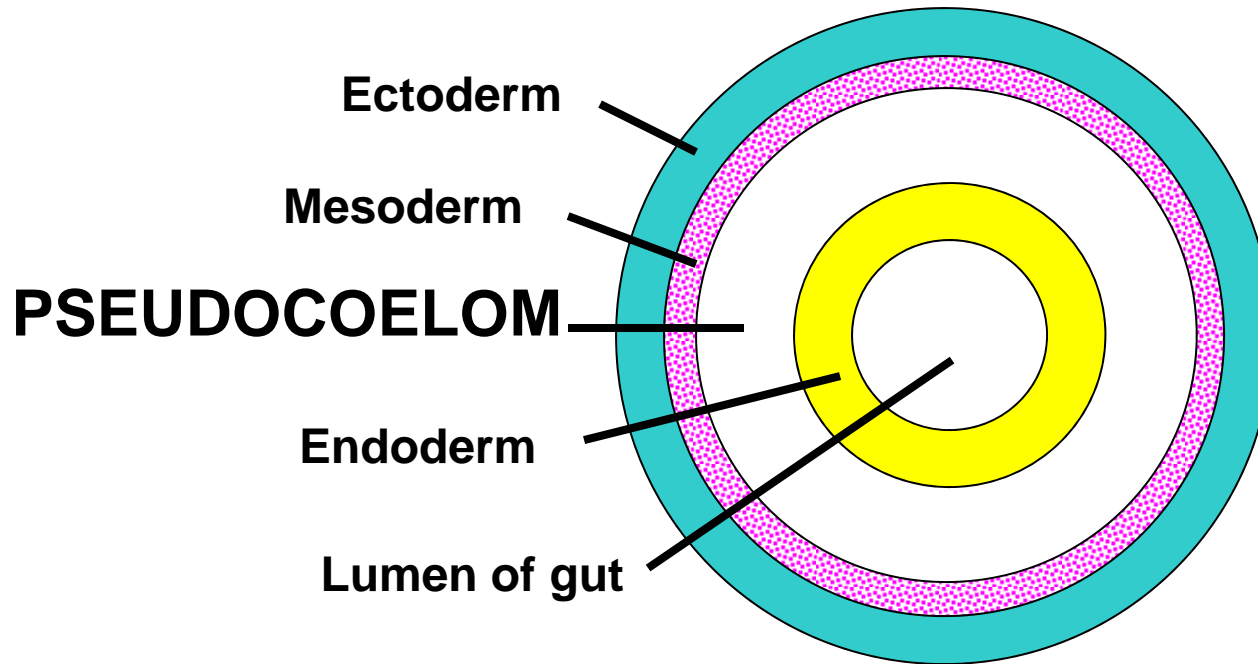


# The PSEUDOCOELOMATE Condition



Any organism which has a “false” body cavity (pseudocoel) is said to be a pseudocoelomate...

# Definition of a pseudocoelom?

- a fluid-filled body cavity, (derived from the blastocoel), which surrounds the gut.

## Functions

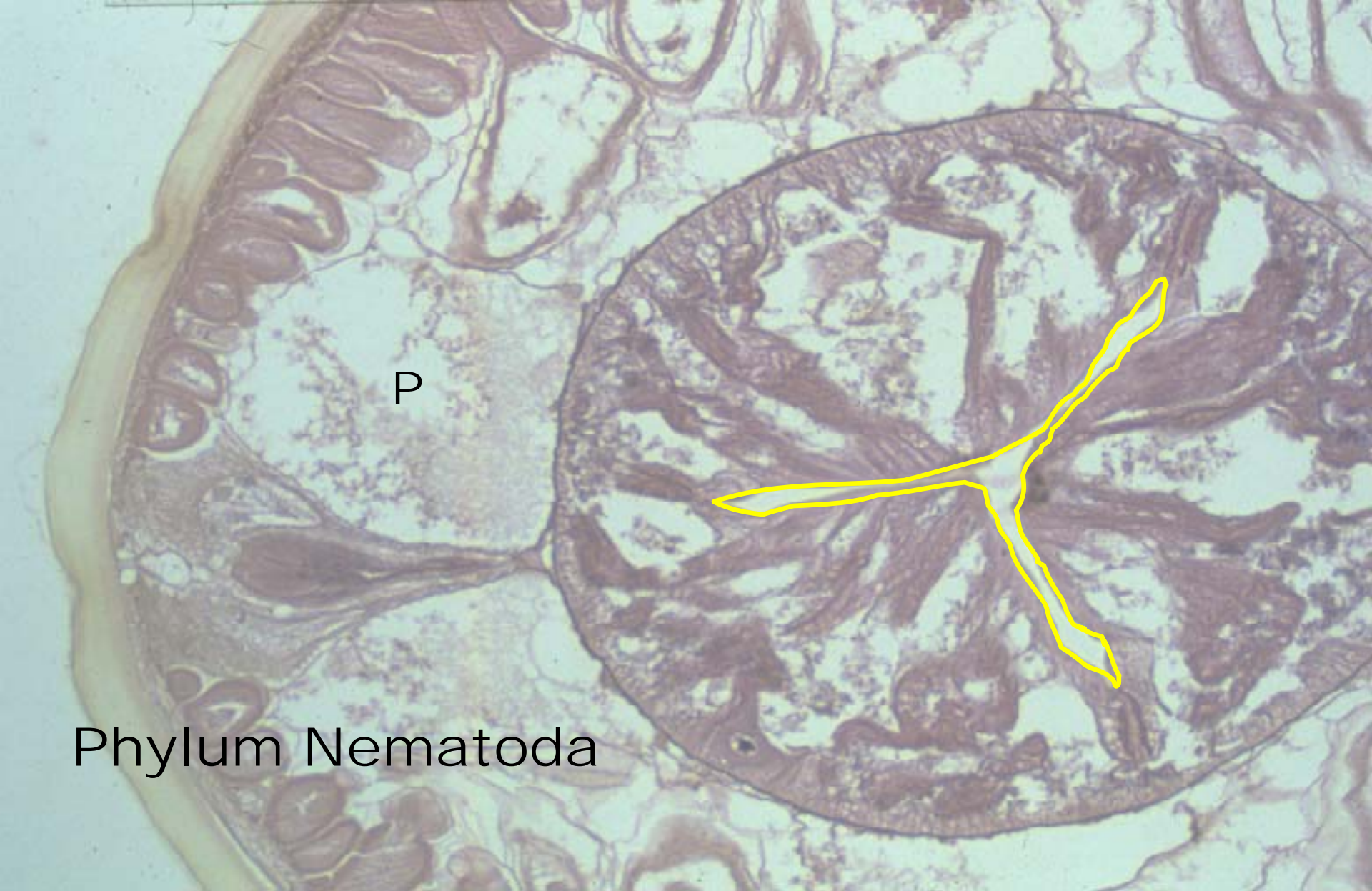
(i.e. what's it used for?)

- Hydrostatic skeleton
- Circulatory
- Location of organs – reproduction & excretion

PHYLUM

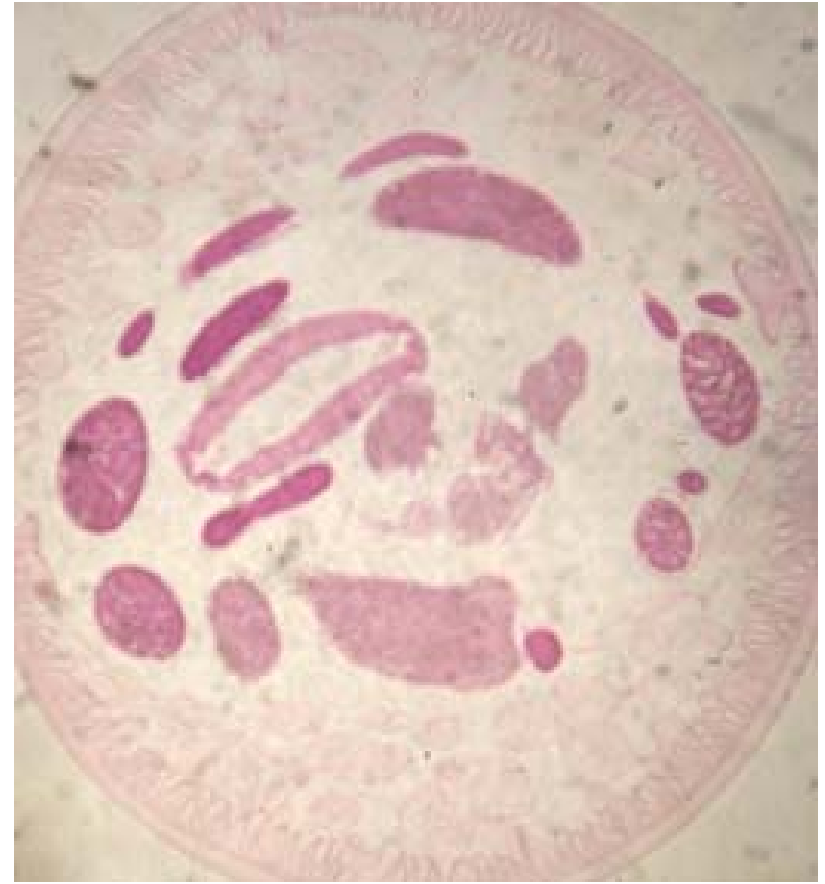
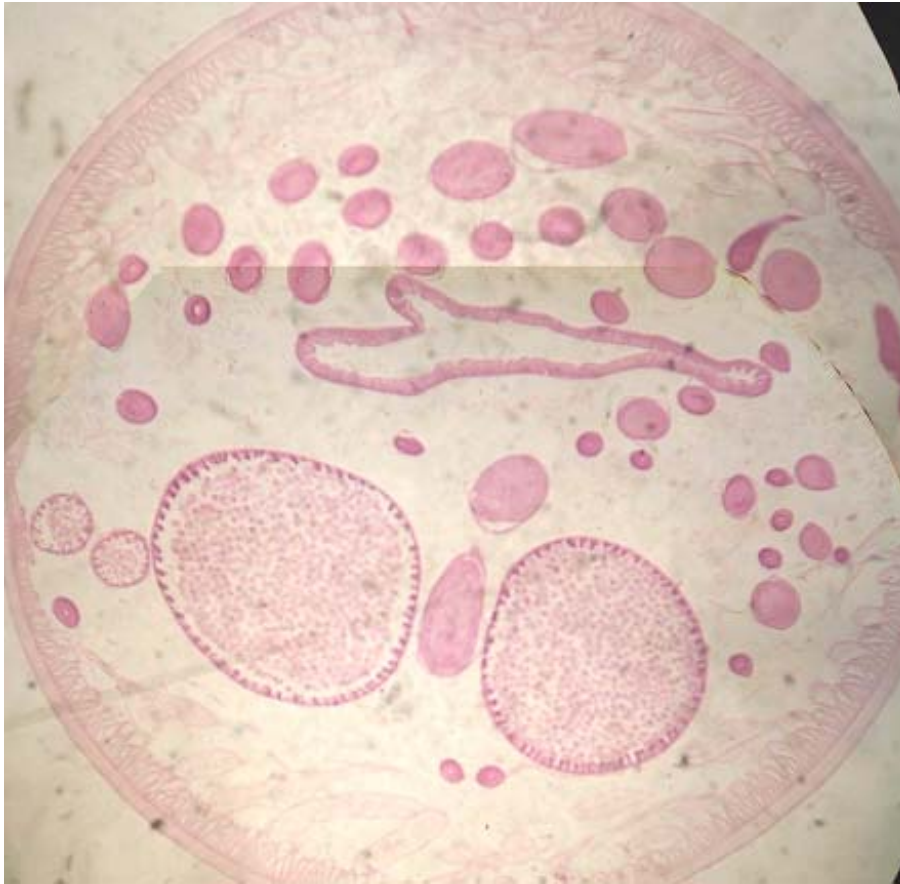
# NEMATODA

- (Roundworms)
- Eutely
- Only longitudinal muscles
- Pseudocoelom functions as circulatory system
- Complete digestive system
- Renette cells - excretion
- Amoeboid sperm

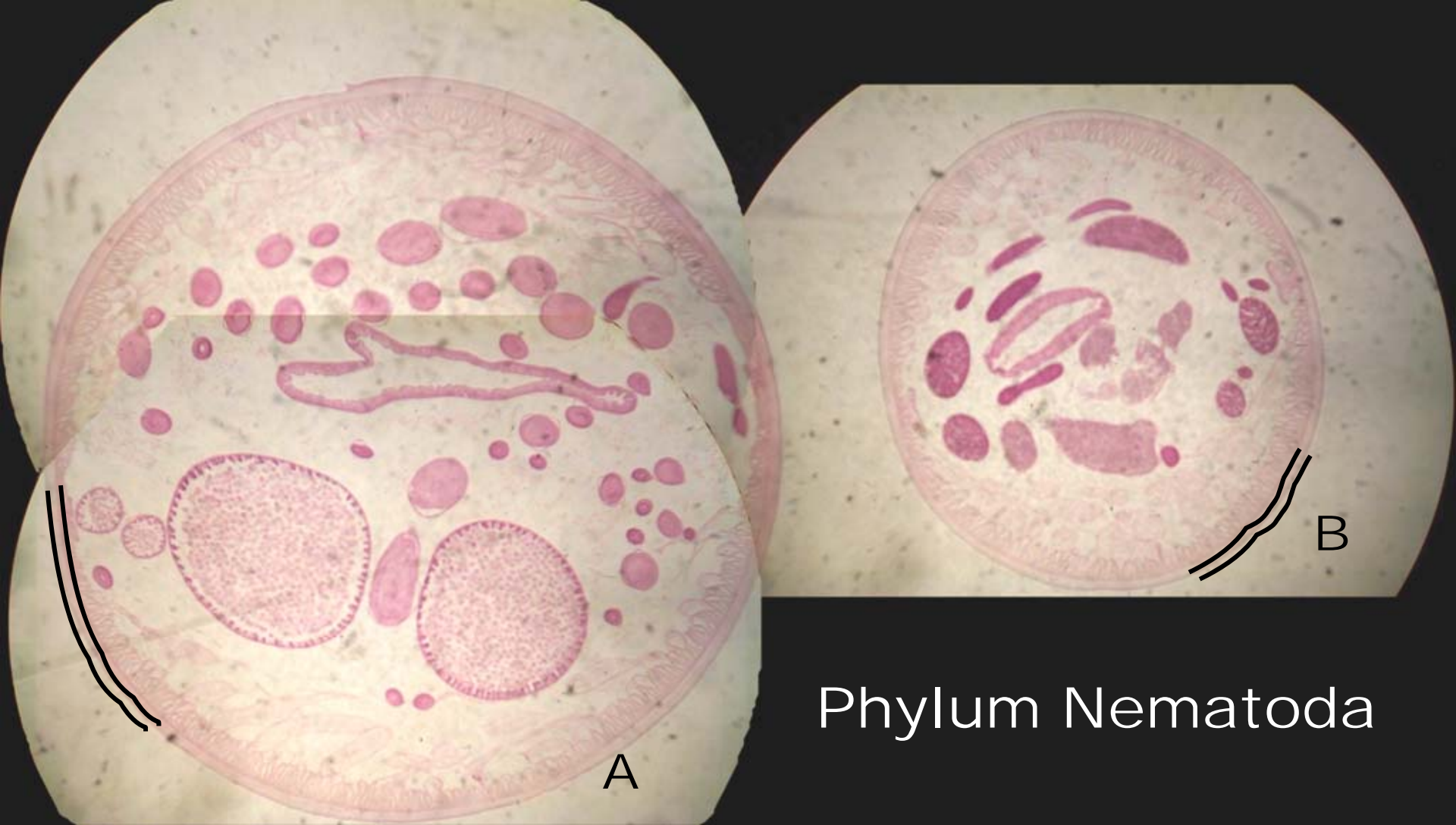


## Phylum Nematoda

cs through esophagus. Note triradiate esophagus, pseudocoel (P) & thick cuticle [fig 5.4]



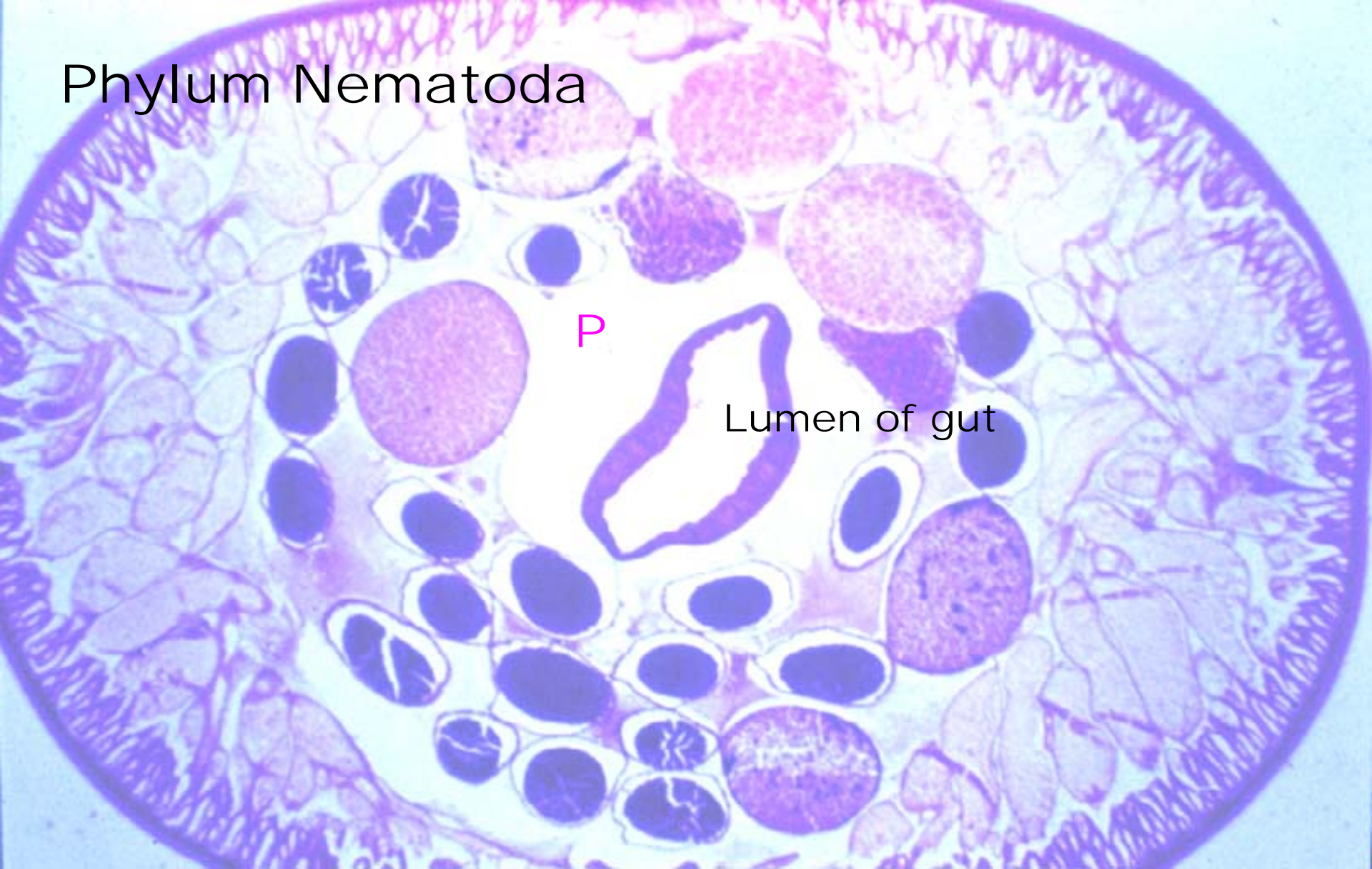
Male or female? Which one is which?  
How do you tell?



## Phylum Nematoda

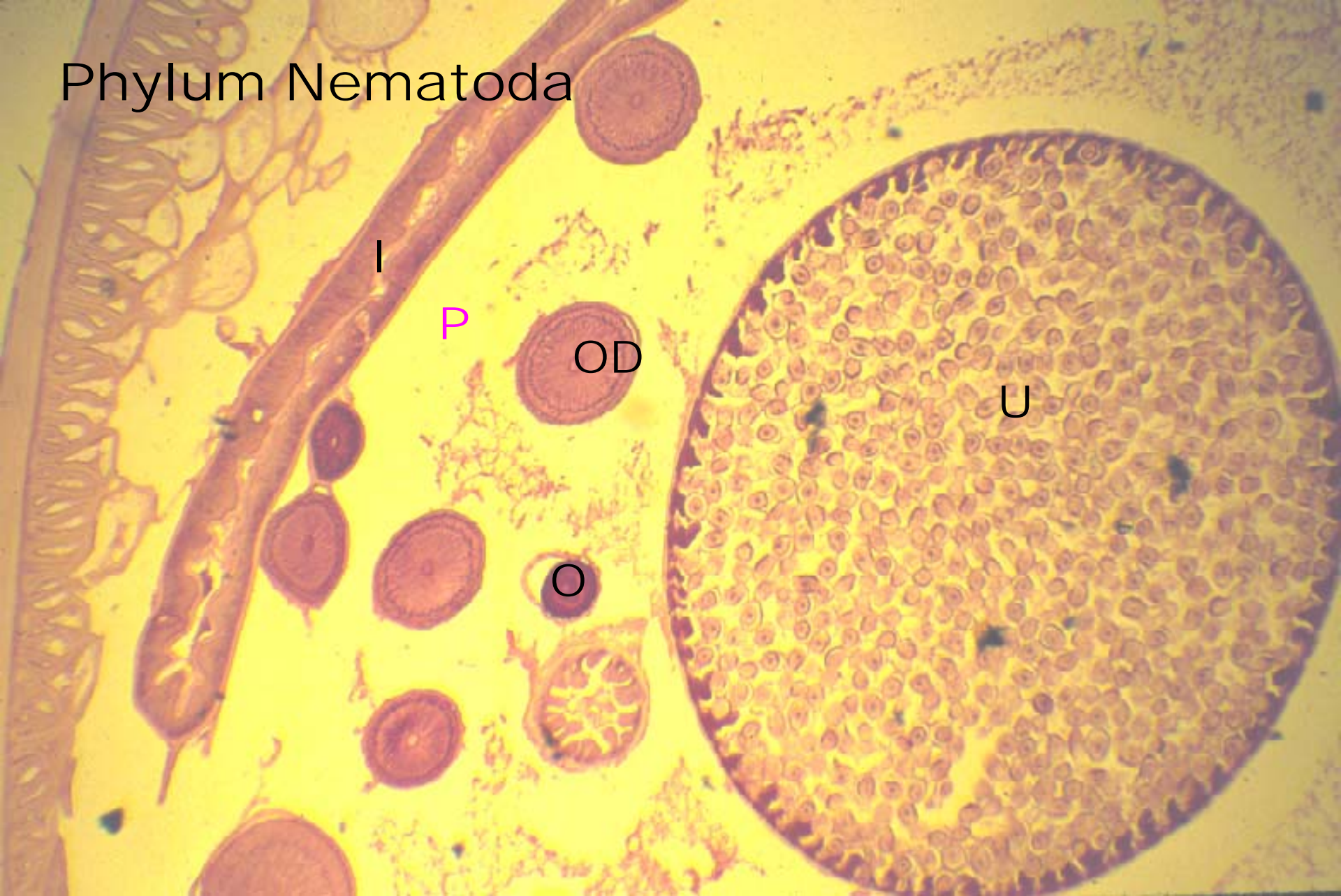
c.s. through female (A) & male (B) nematode worms. Notice the 2 large round structures in the female (uteri) and the thick cuticles on both the male and female worms. [fig 5.3]

# Phylum Nematoda



Male or female? How many different sizes of gonads do you see?

# Phylum Nematoda



c.s. of female Note intestine (I), pseudocoel (P), ovaries (O), oviducts (OD), & one of the 2 LARGE uteri (U) [fig 5.3]



PHYLUM

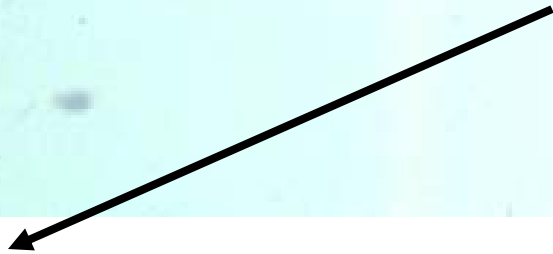
# ROTIFERA

- Cirri, corona & trochus bring in water currents and therefore aid in feeding, respiration and locomotion
- Mastax & trophi = internal feeding apparatus
- Pedal glands and spurs (toes) – attachment
- Flame bulb/protonephridia-excretion
- Parthenogenesis/amictic, mictic, viviparous



PHYLUM Rotifera

Name  
another we  
studied



A pseudocoelomate. Note corona (for feeding, locomotion & respiration), mastax/trophi, pedal glands & spurs (toes) [fig 5.5]