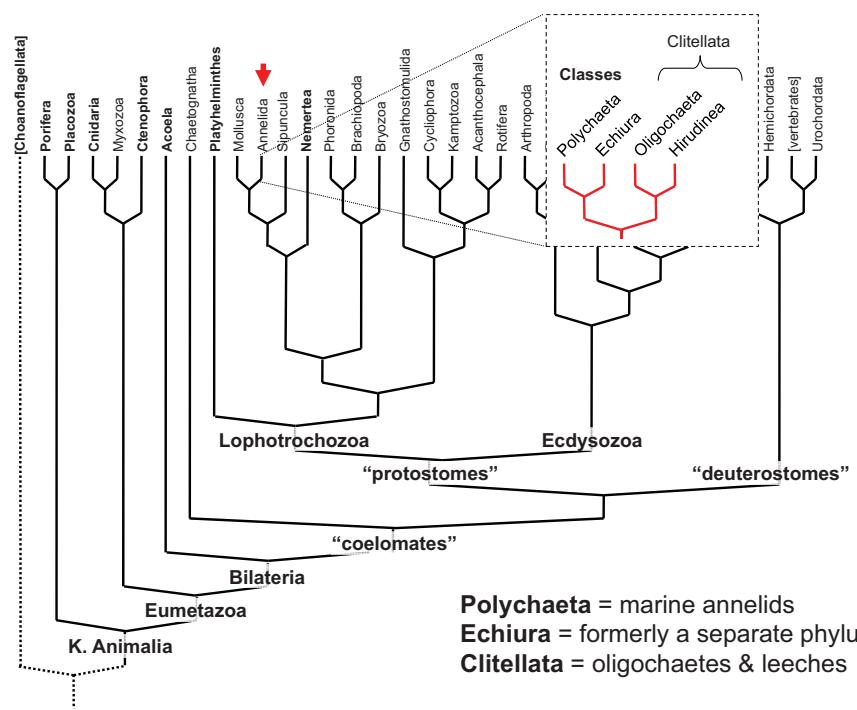


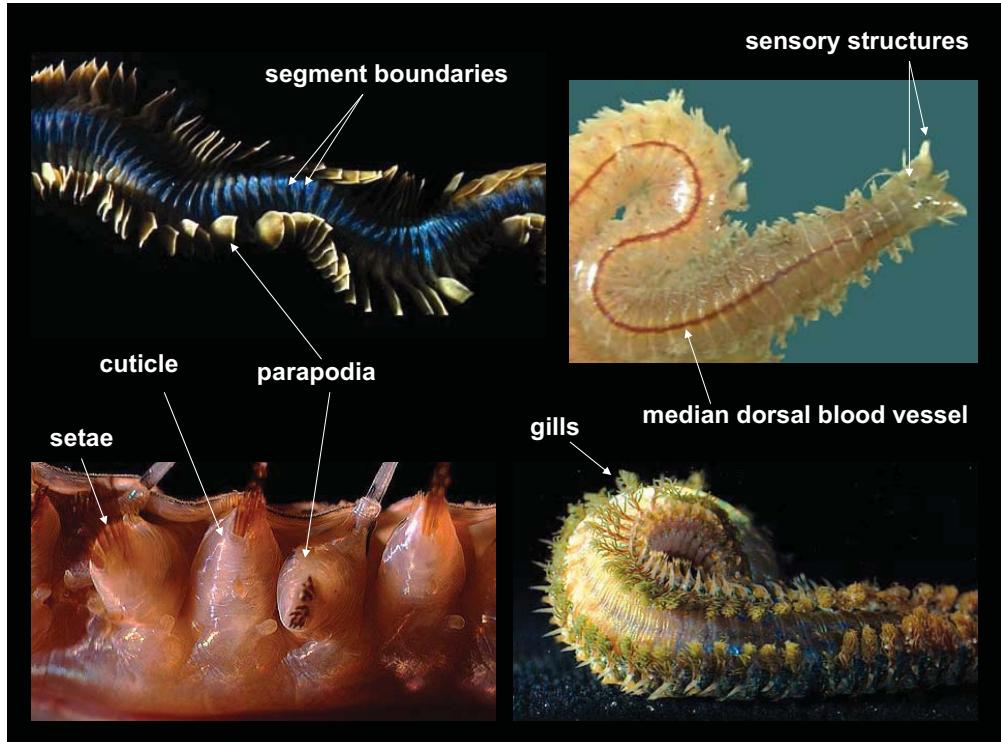
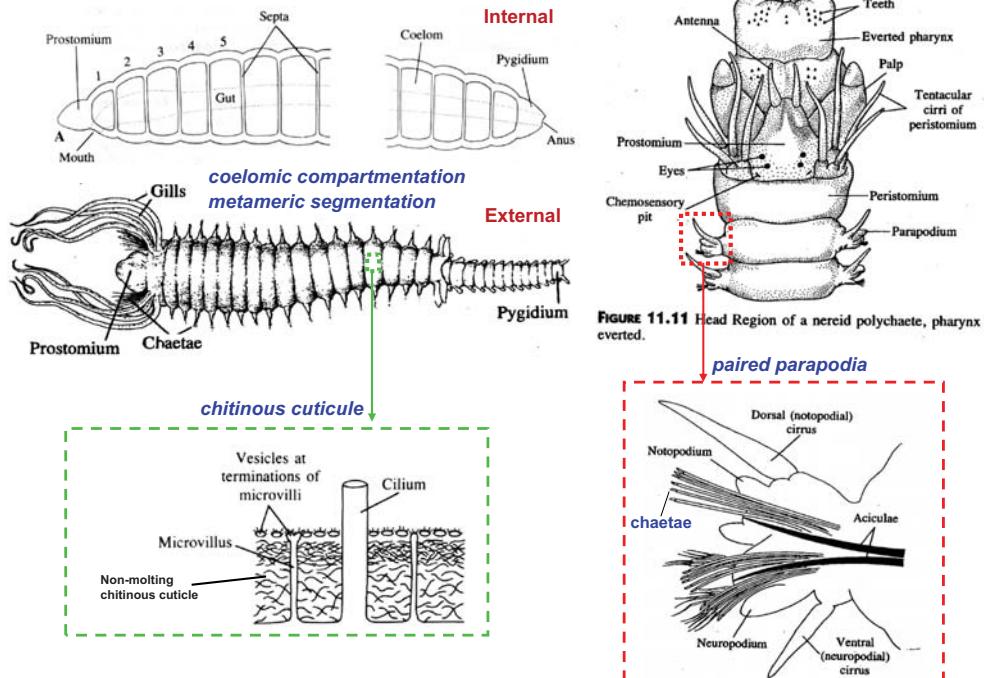
Ph. Annelida

Cl. Polychaeta

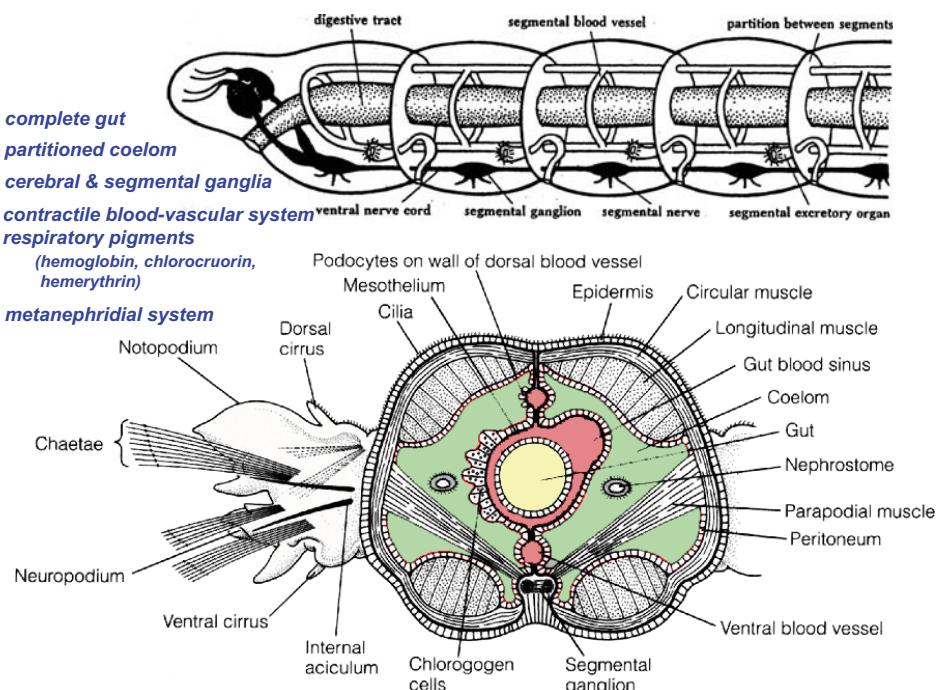


Polychaeta = marine annelids
Echiura = formerly a separate phylum
Clitellata = oligochaetes & leeches

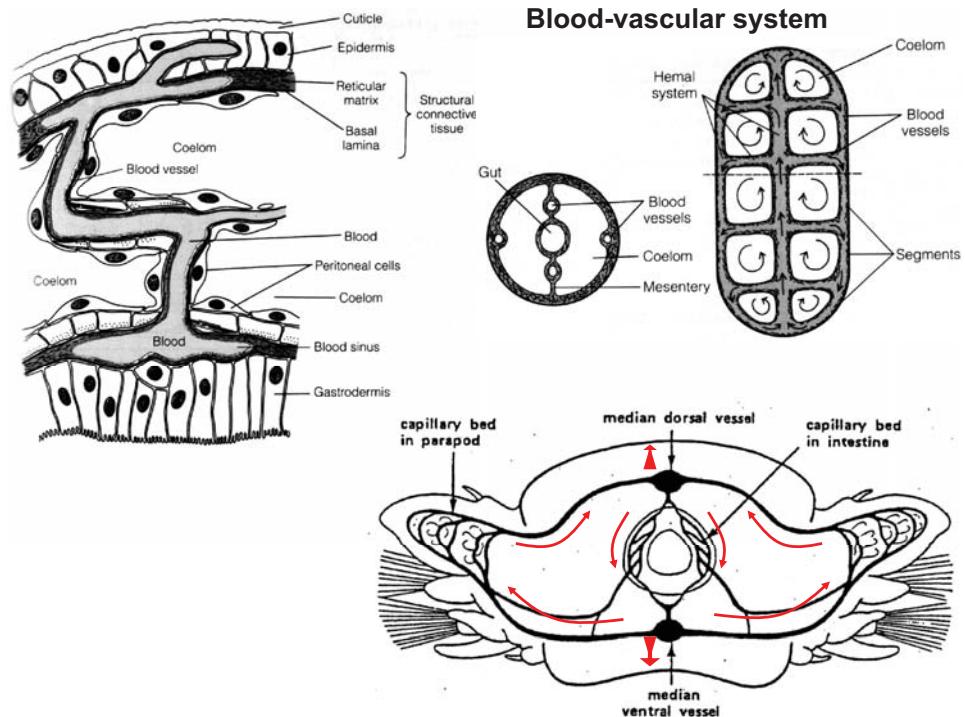
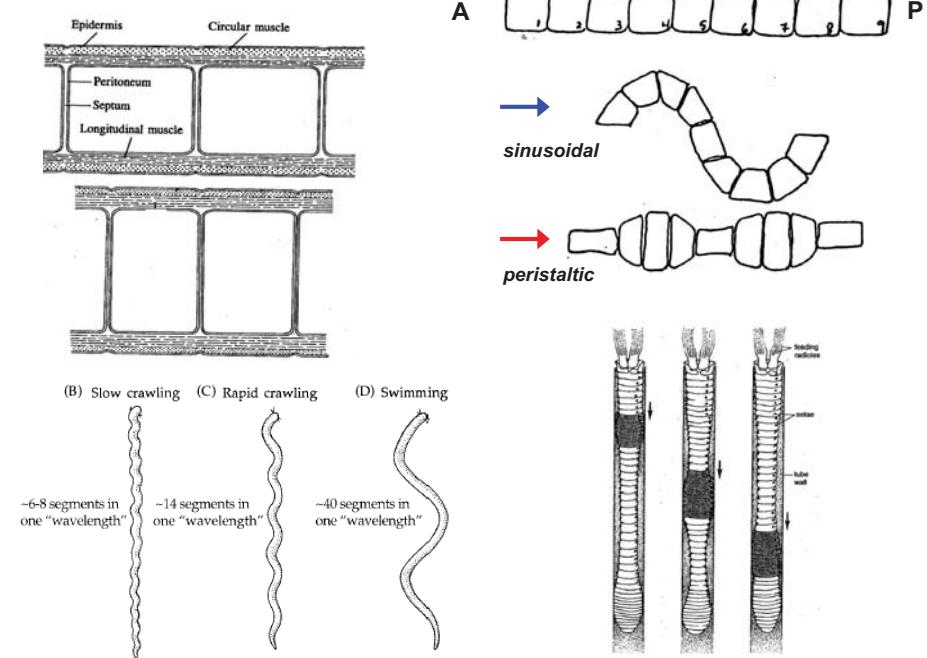
Polychaete: external features



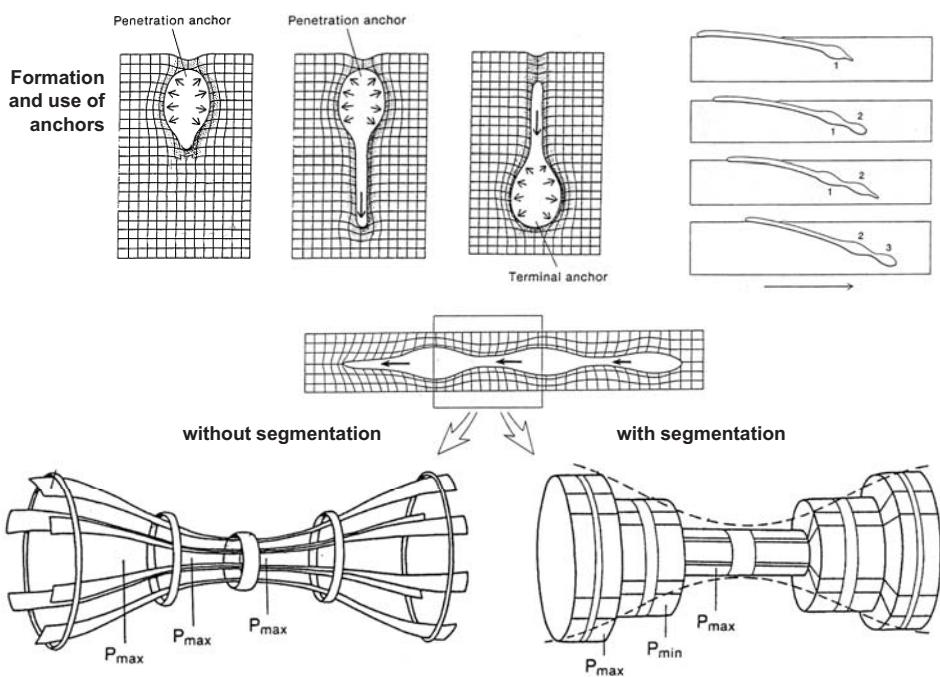
Polychaete: internal features



Coelom: locomotion

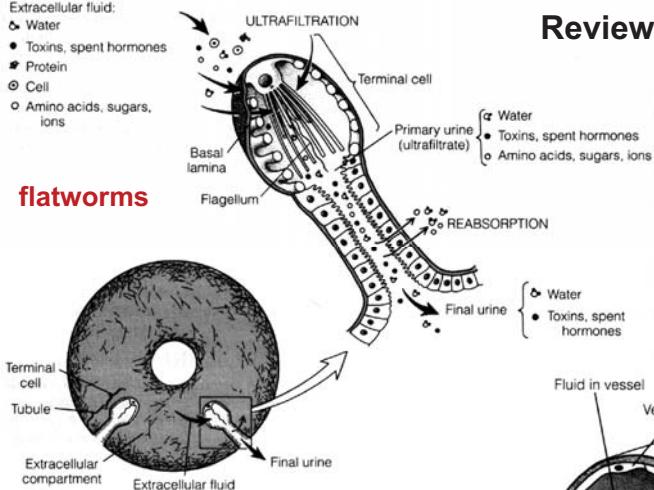


How do worms burrow?

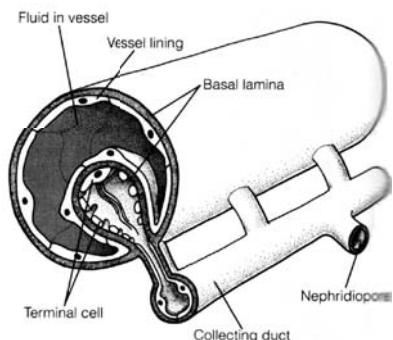


Extracellular fluid:
 & Water
 • Toxins, spent hormones
 ♦ Protein
 ◊ Cell
 ○ Amino acids, sugars, ions

flatworms

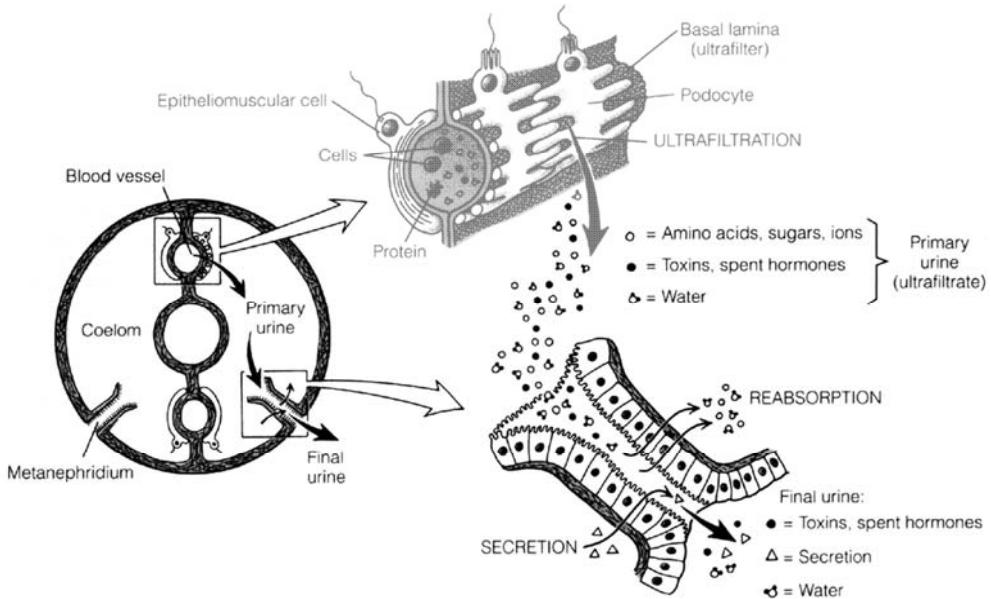


nemerteans

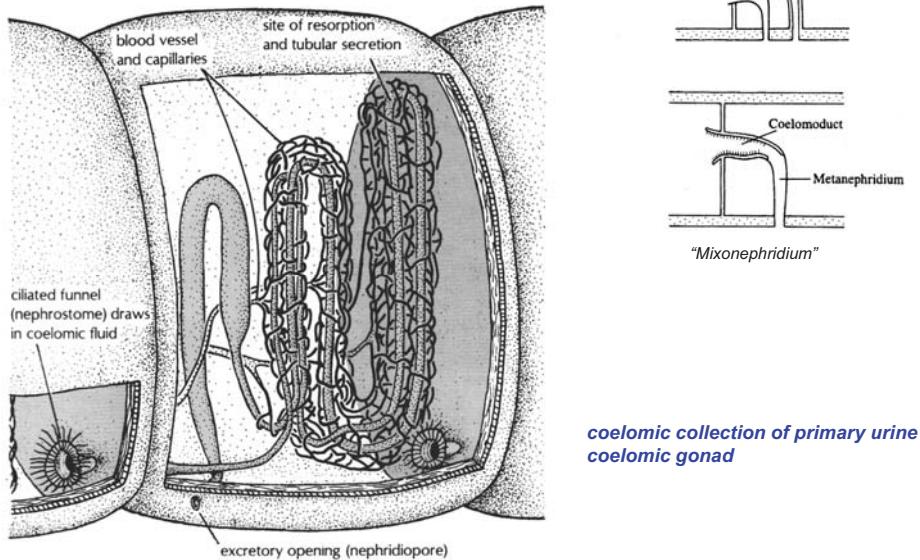


Review: protonephridia

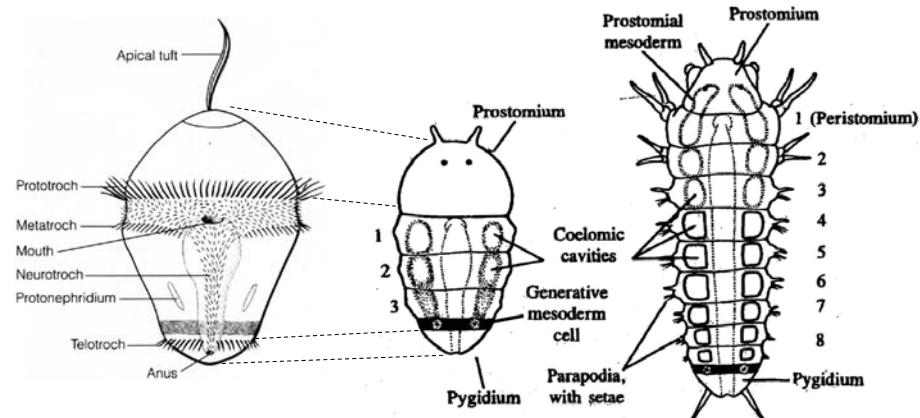
Metanephridia (large coelomate organisms)



Metanephridia (large coelomate organisms)



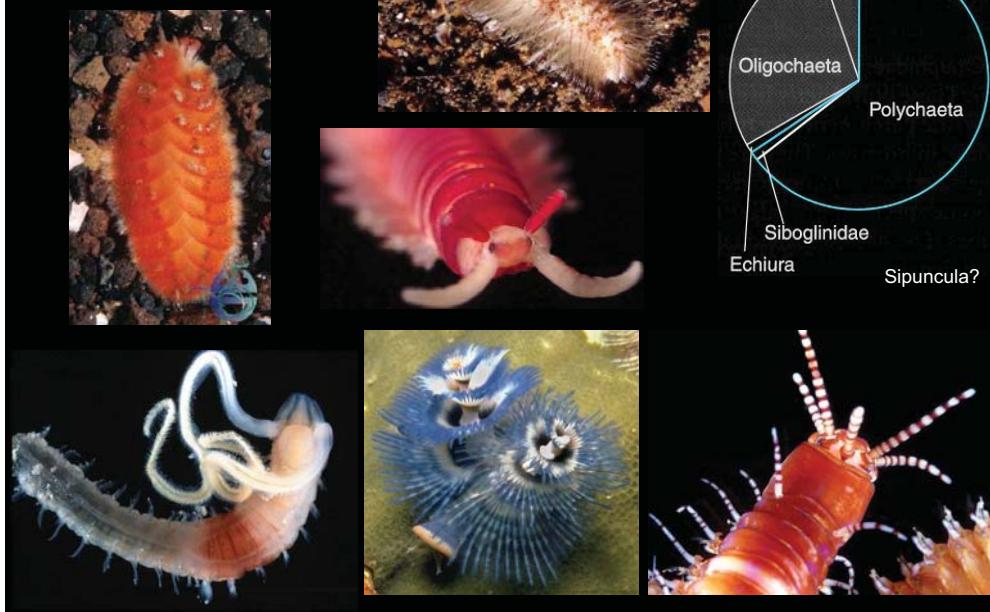
Larval biology and development



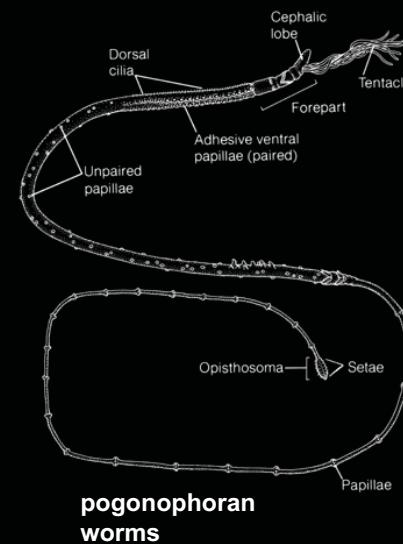
"Trochophore-type" larva

- polychaete annelids ("trochophore")
- molluscs ("trochophore")
- sipunculans ("planktosphaera")
- nemerteans ("pilidium larva")

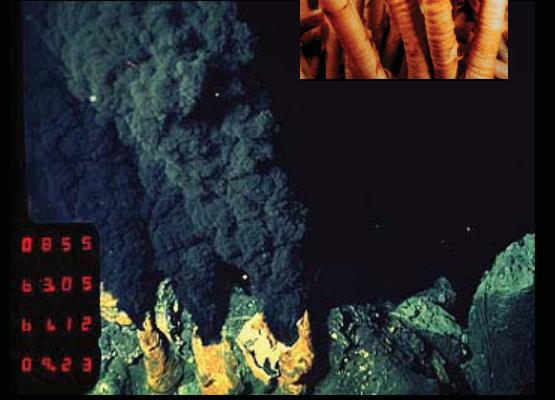
Ph. Annelida Cl. Polychaeta



Ph. Annelida, Cl. Polychaeta F. Siboglinidae

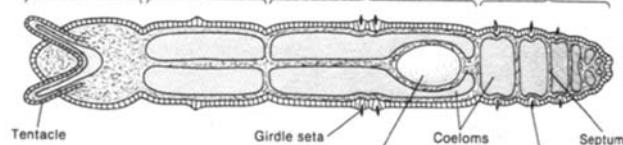
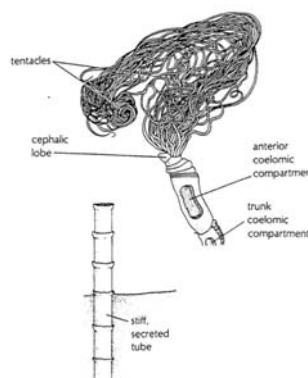
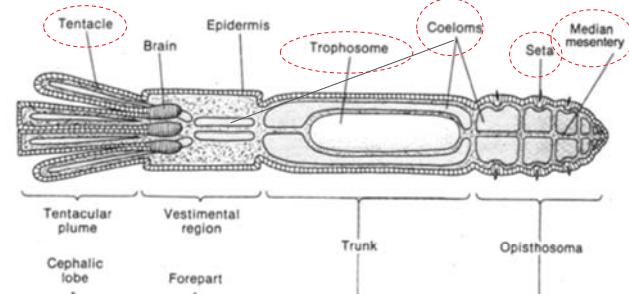


vestimentiferan worms

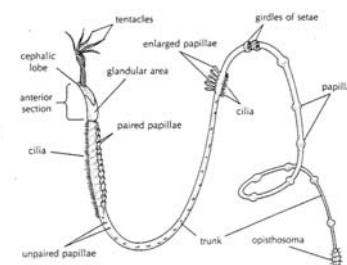


Ph. Annelida, Cl. Polychaeta F. Siboglinidae

vestimentiferans (large gutless worms, live at hydrothermal vents)

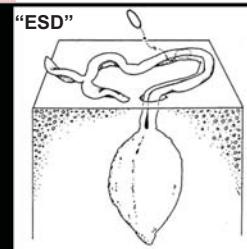
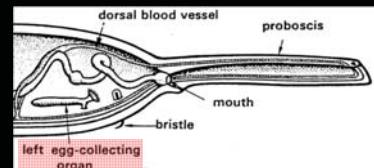


pagonophrants (long thin gutless worms, live in anoxic basins)



Ph. Annelida, Cl. Echiura "spoon worms"

Bonellia viridis



Urechis caupo



The Sipunculans

"peanut worms"

* According to Pechenik 6th Ed.:
= Ph. Annelida, Cl. Sipuncula

