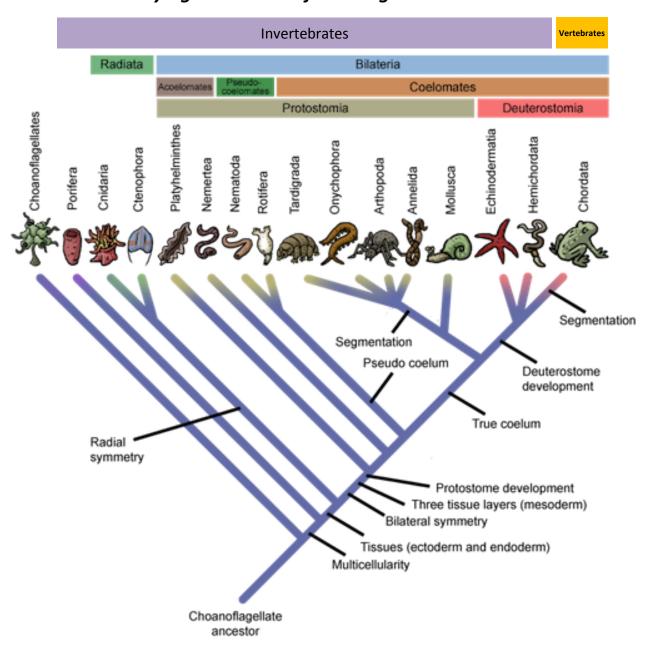
Kingdom Animalia

It is believed that the ancestor of all animals was a multicellular species of protist (similar to chanoflagellates).

What key characteristic did these multicellular protists develop in their body plan?

Phylogenetic Tree of the Kingdom Animalia



Key Characteristics Used to Distinguish Animal Phyla

	First Phylum to Show this key Characteristic
1) Symmetry	,
Radial symmetry:	_
	_
Bilateral symmetry:	_
2) Germ Layers (Tissues)	First to have ectoderm and endoderm
Digestive cavity	First to have all three germ layers including mesoderm
3) Coelom	
What is a true coelom?	First Acoelomates
	First Pseudocoelomates
ectoderm————————————————————————————————————	
endoderm mesoderm endoderm coelom	First Coelomates
a. Acoelomate b. Pseudocoelomate c. Coelomate molluscs annelids	
arthropods echinoderms chordates	
4) Embryonic Development	First Protostome
Protostome = anus develops first	
Deuterostome = mouth develops first	First Deuterostome
	1

The Chordates

What is a notochord?

