

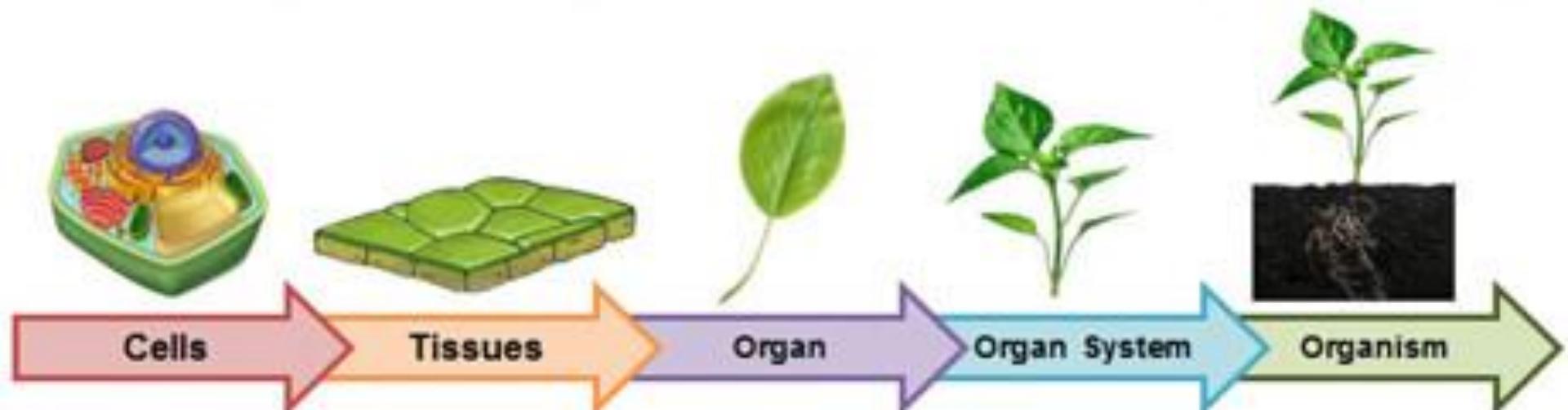
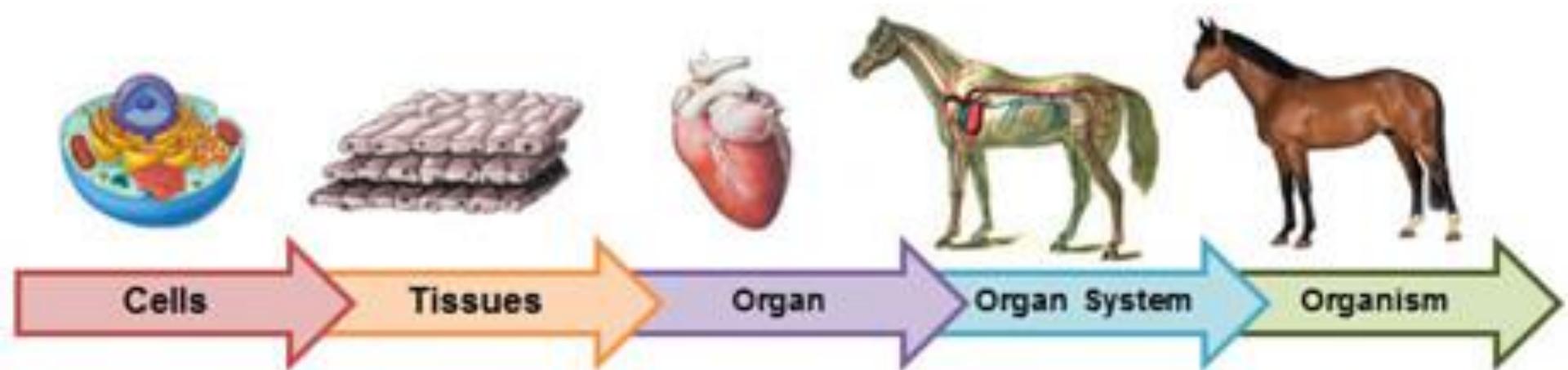
Classification fundamental of Animal kingdom

Classification of Animal Kingdom

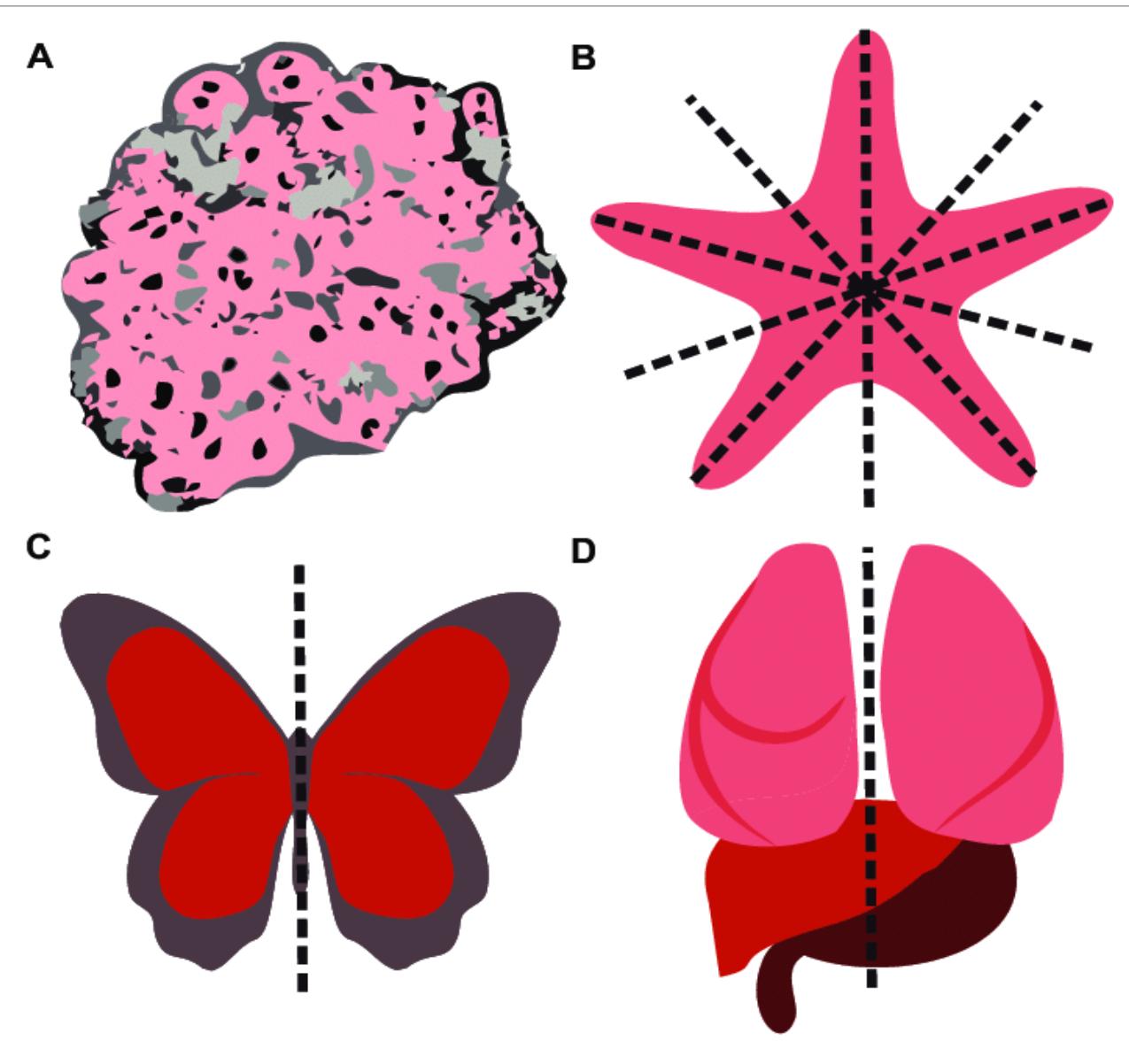
- Animal kingdom including Phylum (Porifera, Coelenterata, Platyhelminthes, Aschelminthes, Annelida, Arthropoda, Mollusca, Echinodermata, Chordata)

Classification of Animal Kingdom is based on various fundamental features like

- Levels of Organization,

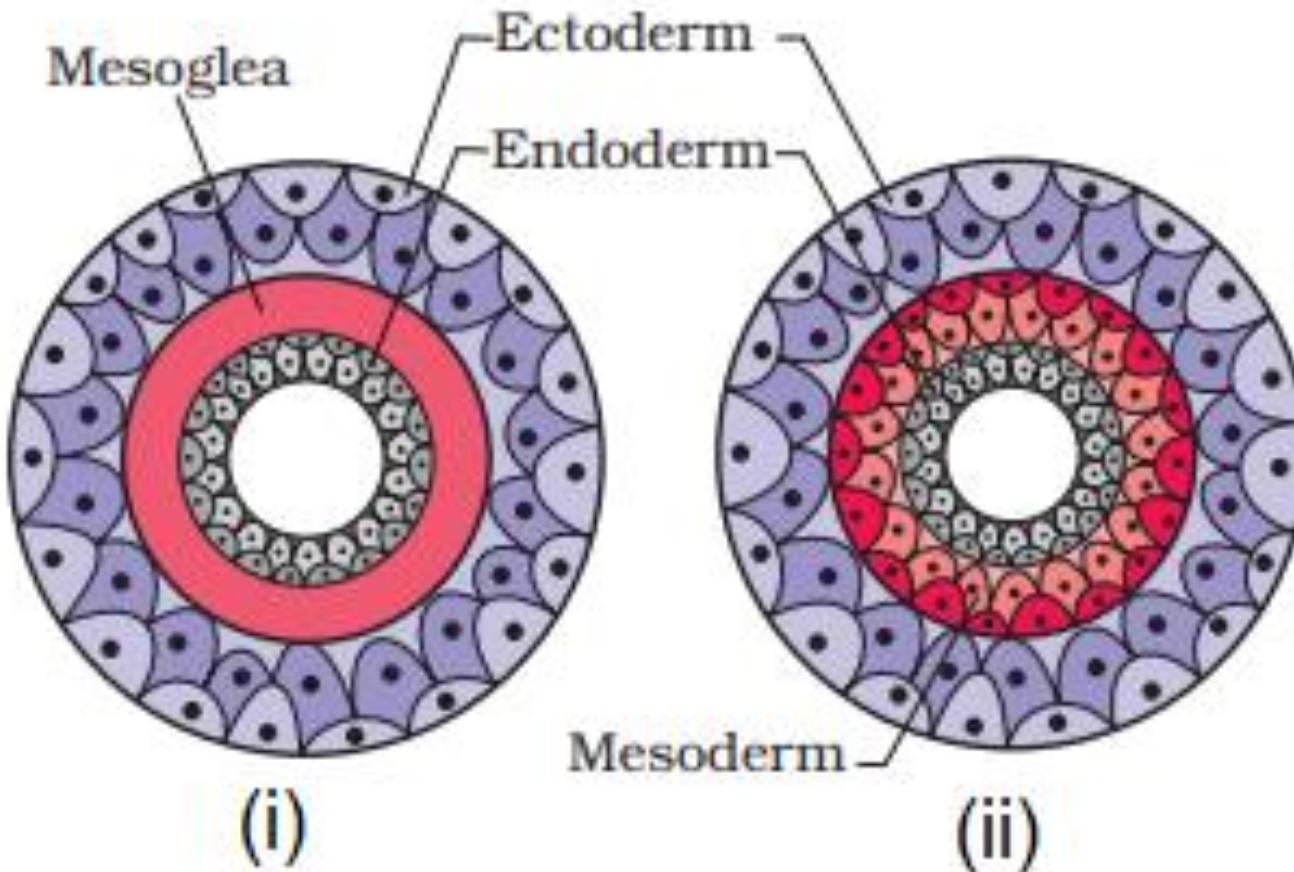


Symmetry

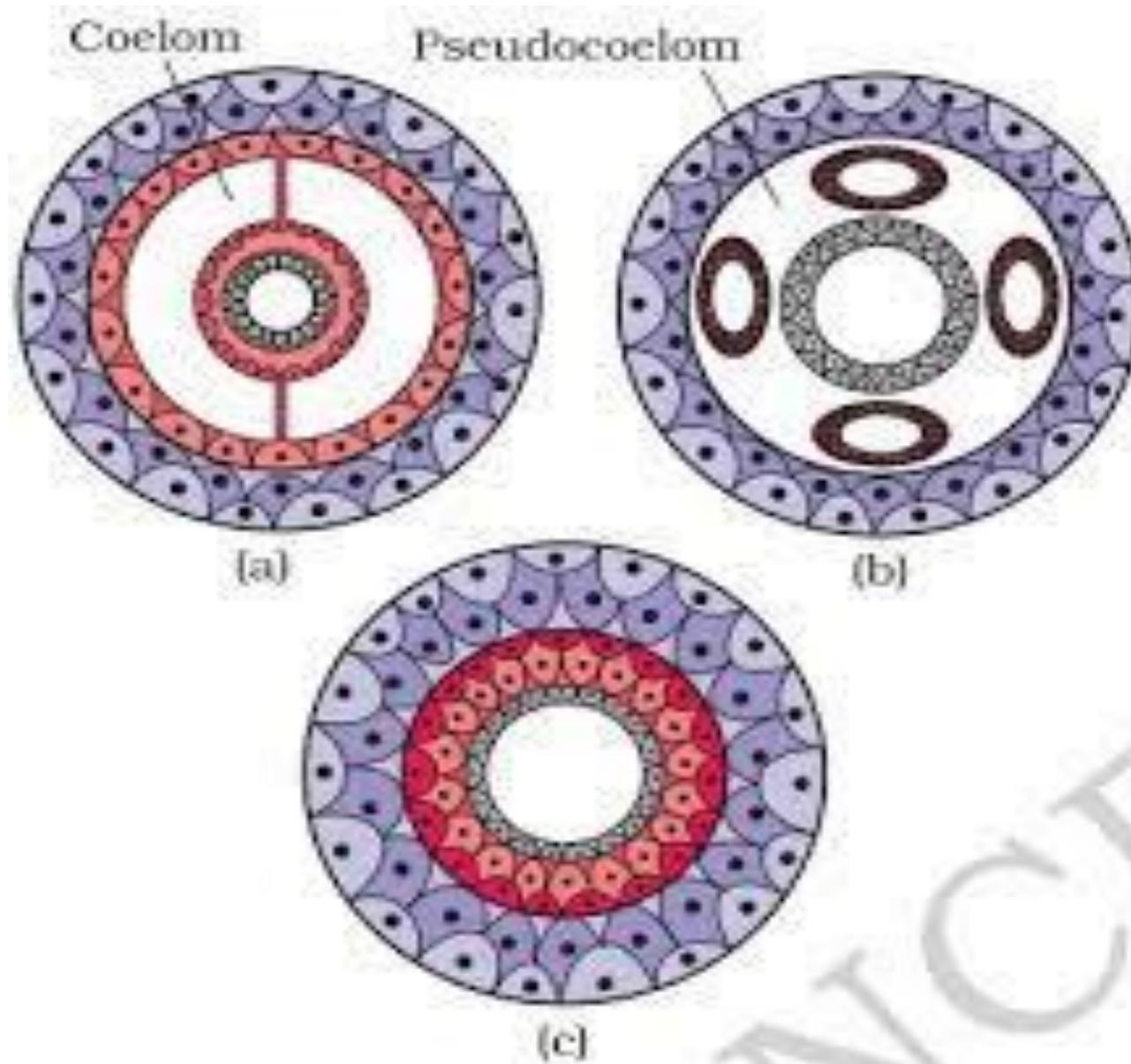


Embryonic development

- Diploblastic and Triploblastic Organisation



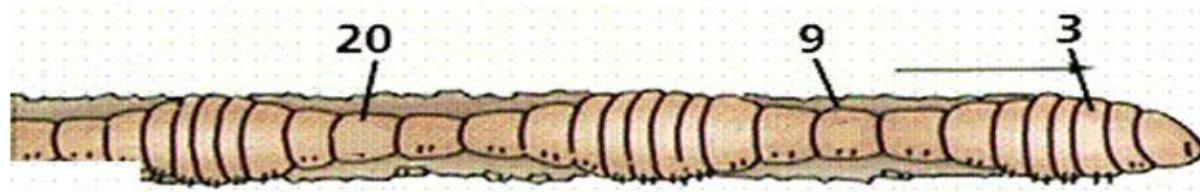
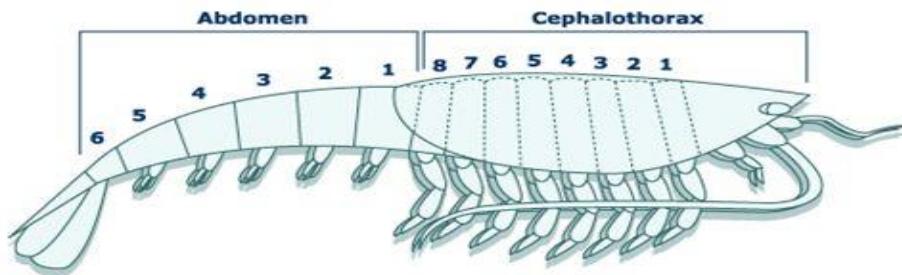
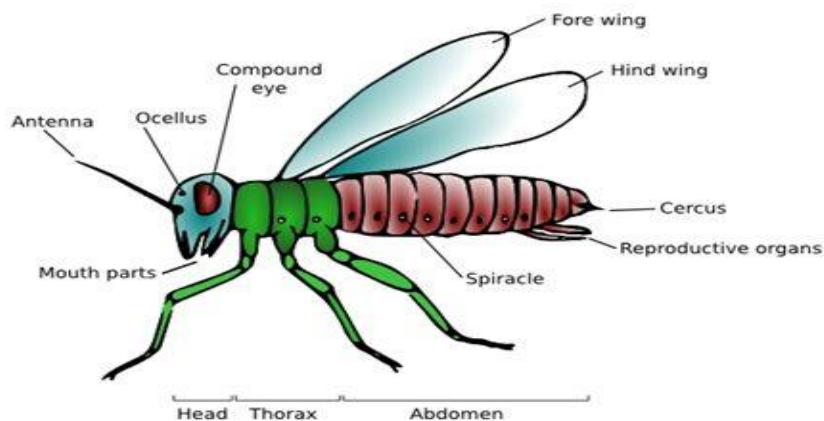
Coelom



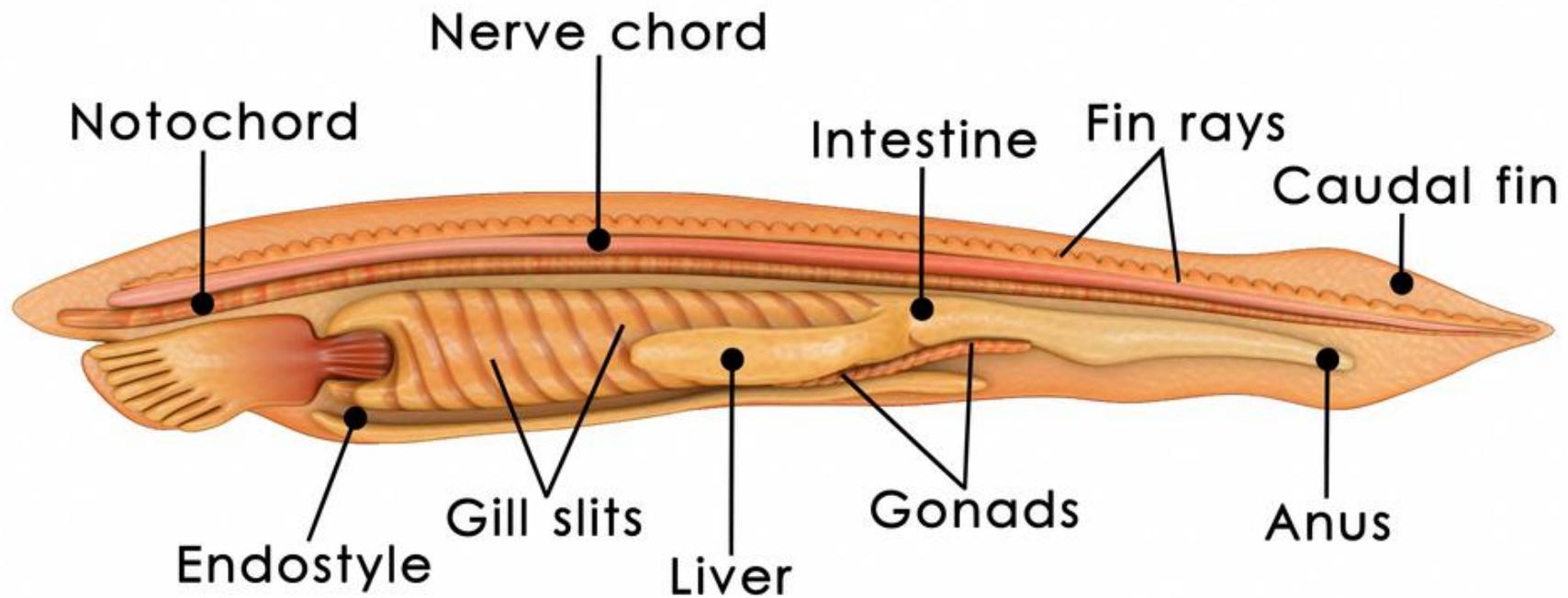
Segmentation

Animal Diversity

- Segmentation

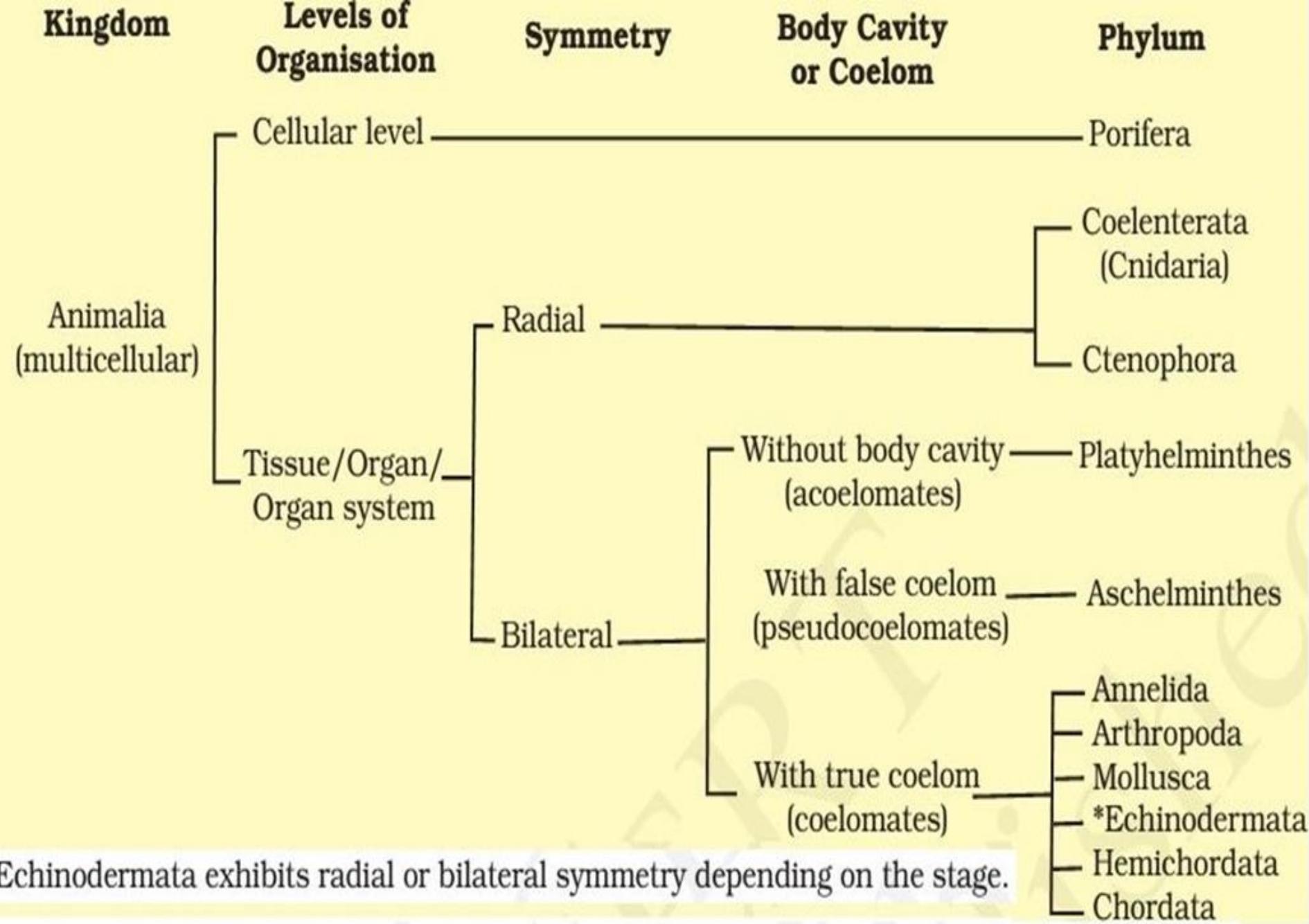


Notochord



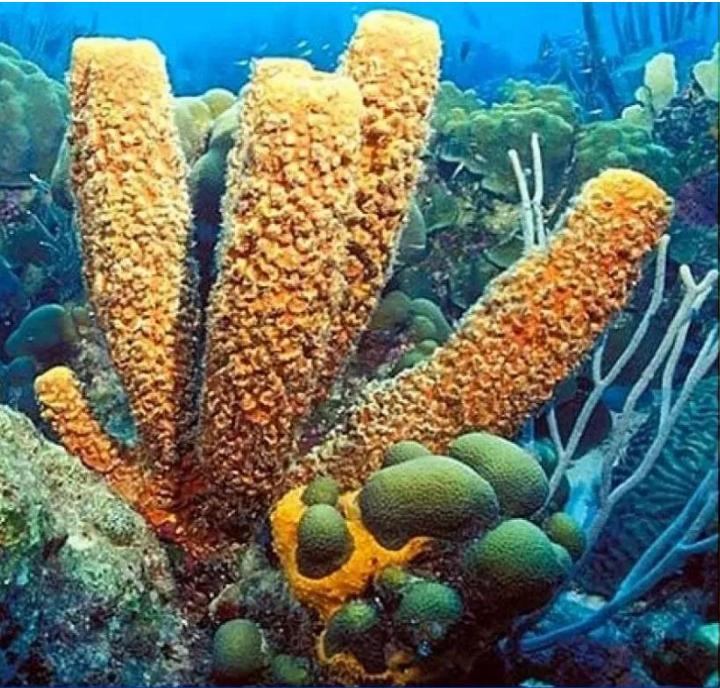
Animal Kingdom is classified into

- **Phylum – Porifera**
- **Phylum – Coelenterata (Cnidaria)**
- **Phylum – Ctenophora**
- **Phylum – Platyhelminthes**
- **Phylum – Aschelminthes (Nemotoda) Annelida**
- **Phylum – Arthropoda**
- **Phylum – Mollusca**
- **Phylum – Echinodermata**
- **Phylum – Hemichordata**
- **Phylum – Chordata**

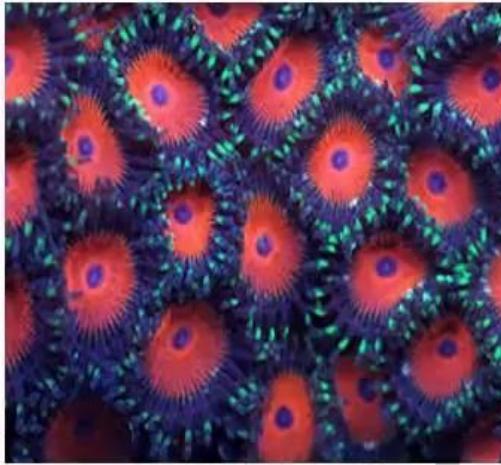


Broad classification of Kingdom Animalia based on common fundamental features

Phylum – Porifera



Phylum – Coelenterata (Cnidaria)



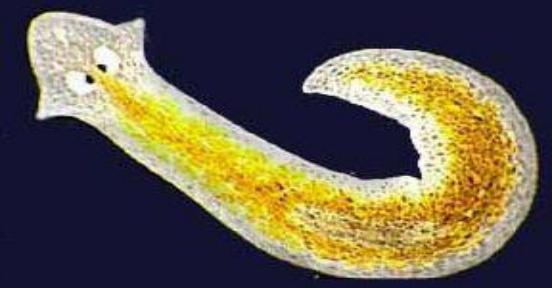
PHYLUM - COELENTERATA

Phylum – Ctenophora



Phylum – Platyhelminthes

Class Turbellaria
includes: Planarians



Phylum – Aschelminthes (Nemotoda)

Phylum Nematoda



Phylum – Annelida



Alitta succinea



Glycera sp.



Earthworm

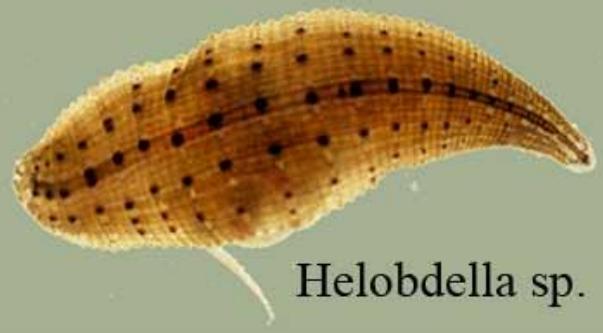
Phylum Annelida



Hirudo medicinalis



Urechis caupo



Helobdella sp.

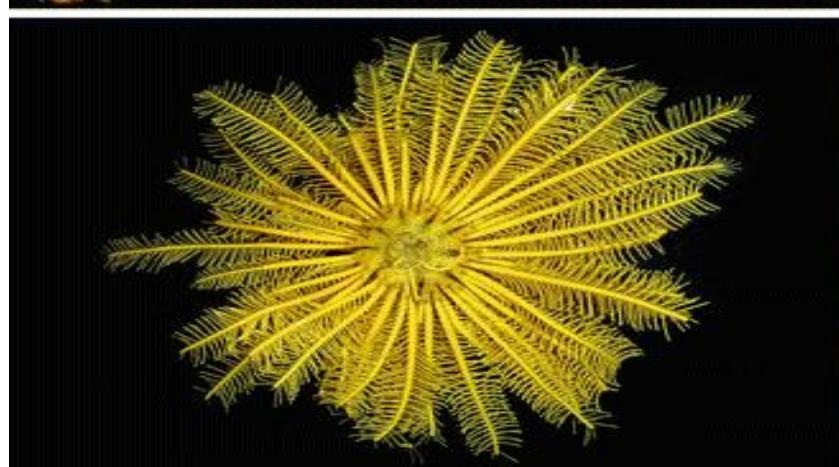
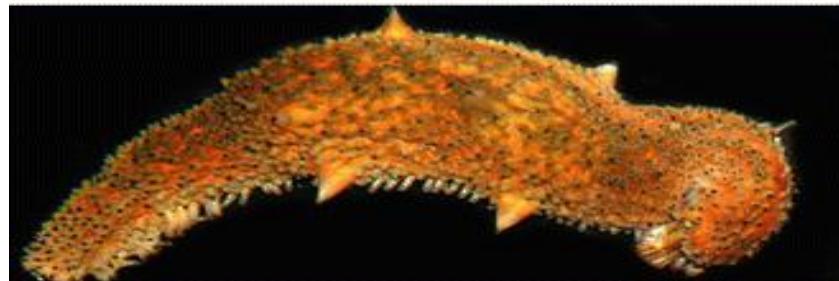
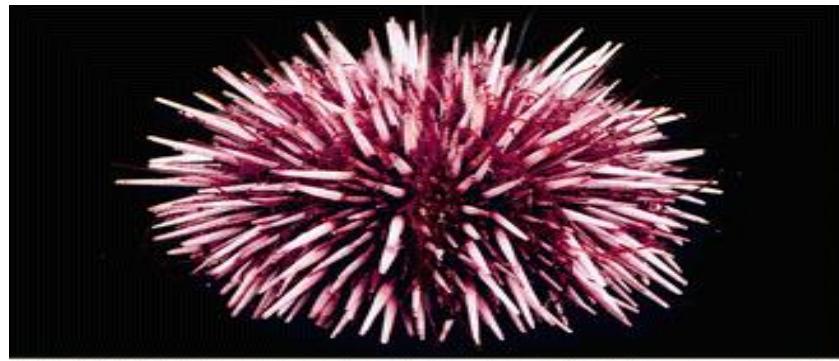
Phylum – Arthropoda



Phylum –Mollusca



Phylum –Echinodermata



Phylum – Hemichordat

Early Deuterostomes and their modern counterparts



Shankouclava anningense
Tunicata
Early Cambrian
Maotianshan Shale, China



Modern Sea squirt
(*Ciona intestinalis*)
Tunicata Ascidiacea



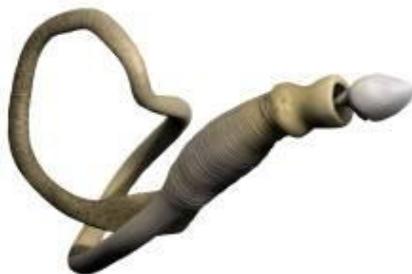
Pikaia gracilens
Cephalochordata
Middle Cambrian Burgess
Shale, Canada



Modern Lancelet
(*Branchiostoma lanceolatum*)
Cephalochordata
Amphioxiformes



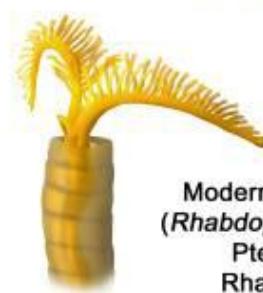
Tetragraptus fruticosus
Graptolithina
Ordovician, Canada



Spartobranchus tenuis
Enteropneusta
Middle Cambrian Burgess Shale,
Canada



Modern Acorn Worm
(*Saccoglossus* sp.)
Enteropneusta Harrimaniidae



Modern Rhabdopleura
(*Rhabdopleura compacta*)
Pterobranchia
Rhabdopleurida