

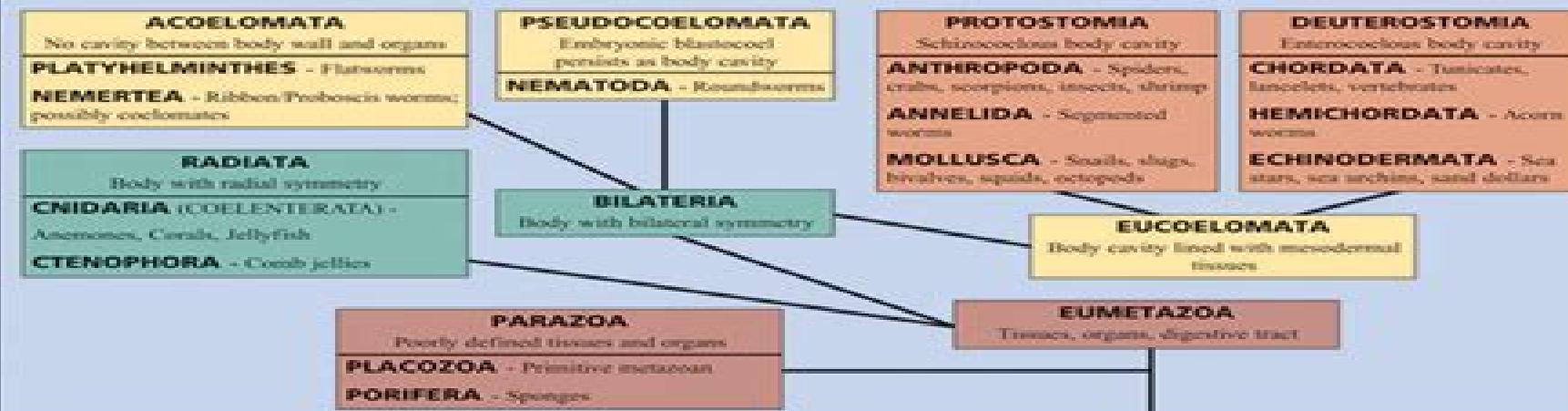
# ZOOLOGY



parazoa

What is an animal? A multicellular, eukaryotic, heterotrophic organism lacking cell walls.

## CLASSIFICATION OF THE METAZOAN KINGDOM



## METAZOAN CHARACTERISTICS

- Advantages
  - Larger size
  - Increased mobility
  - Internal homeostasis
  - Relative independence from environment

### Symmetry

- Radial - Circular arrangement with numerous planes creating equal halves; no front/back or left/right sides; possesses top/bottom or oral/aboral surfaces (1).
- Sessile or pelagic forms.

- Bilateral - Possess left/right sides (2).
  - "Cephalization" or concentration of sensory structures in the head
  - Unidirectional, active movement using front for orientation

### Embryology

- Zygote  $\rightarrow$  2 cell  $\rightarrow$  4 cell  $\rightarrow$  8 cell  $\rightarrow$  16 cell  $\rightarrow$  Morula (solid ball of cells)  $\rightarrow$  Blastula  $\rightarrow$  Blastocoel chamber  $\rightarrow$  Gastrula  $\rightarrow$  Gastrula pore and archenteron (embryonic gut) (3).



- Three germ layers (from which all tissues develop) in place during gastrula phase: Endoderm, Mesoderm, Ectoderm.
- Diploblastic - Organisms produce only ectoderm and endoderm.
- Triploblastic - organisms produce all three layers.

### Protostome/Deuterostome classification

- Cleavage patterns.
  - Spiral cleavage** - New cells placed at juncture between previous cell; protostome feature (4).
  - Radial cleavage** - New cells placed directly beside or on top of previous cell; deuterostome feature (5).

### SPRiAL CLEAVAGE (TOP VIEW)

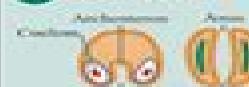


### RADiAL CLEAVAGE (TOP VIEW)



- Developmental fate of cells.
  - Determinate** - Fate of cells determined early; separated early cells incapable of developing into entire organism; protostome feature.
  - Indeterminate** - Fate of cells determined relatively late; separated early cells can develop into entire organism; allows for "twins" or genetically identical individuals; deuterostome feature.
  - Cochlear formation** - Body cavity lined by mesodermal tissues.
  - Schizocoely** - Derived from split in mesoderm; protostome feature (6).
  - Enterocoely** - Derived from outgrowth of archenteron; deuterostome feature (7).

### ACOELOMATE



### PLACOZOA



### PORIFERA



### ACOELOMATES



### PSEUDOCOELOMATES



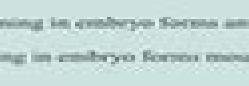
### COELOMATES



### ENTEROCOEL



### NEOCOEL



### DEUTEROSTOMIA



### CHORDATA



### HEMICORDATA



### ECHINODERMATA



# Zoology Study Guide

**Heather Wilson Ashworth**

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