

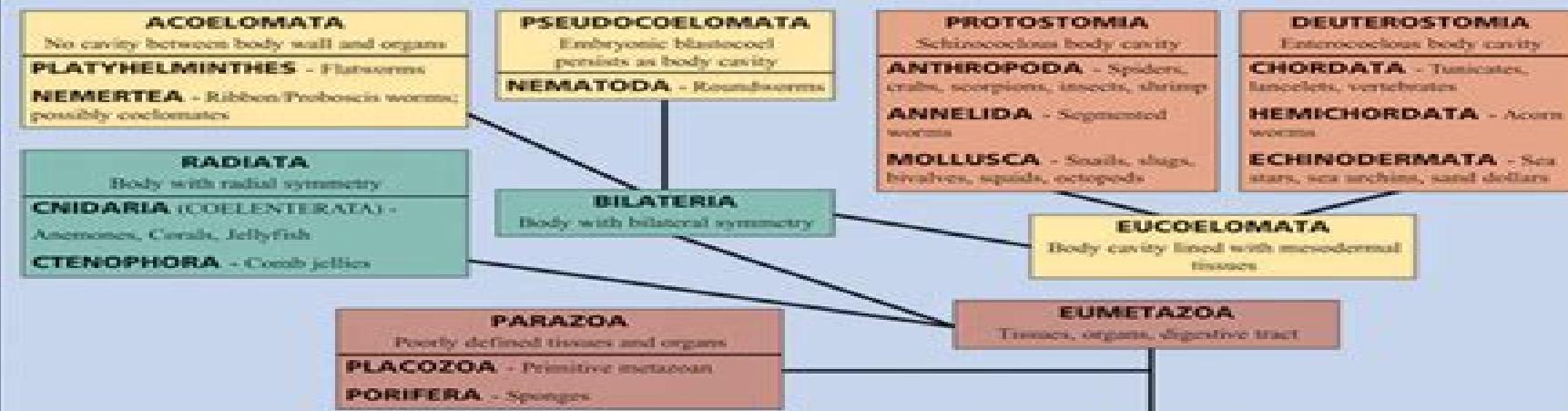
# ZOOLOGY



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 fixed set of orientation

### 1. RADIAL



### 2. BILATERAL



## 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

### 3. PROTOSTOMIA/DEUTEROSTOMIA CLASSIFICATION

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

### 4. SPIRAL CLEAVAGE (TOP VIEW)



### 5. RADIAL CLEAVAGE (TOP VIEW)



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

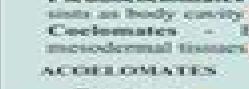
### 6. ACOELOMATE



### 7. PSEUDOCOELOMATE



### 8. COELOMATE

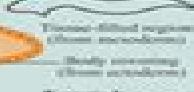


### 9. INTERCOELOMATE



- Blastopore fate
  - Mesothel - a second opening in embryo forms mesothelium feature
  - Allotel - a second opening in embryo forms mesothelium feature
- Body plan
  - Acoelomates - No cavity between body wall and organs (6)
  - Pseudocoelomates - Embryonic blastocoel persists as body cavity (6)
  - Cochelomates - Body cavity lined with mesodermal tissues (7)

### 10. COELOMATE



### 11. INTERCOELOMATE



# Zoology Study Guides

**Heather Wilson Ashworth**

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