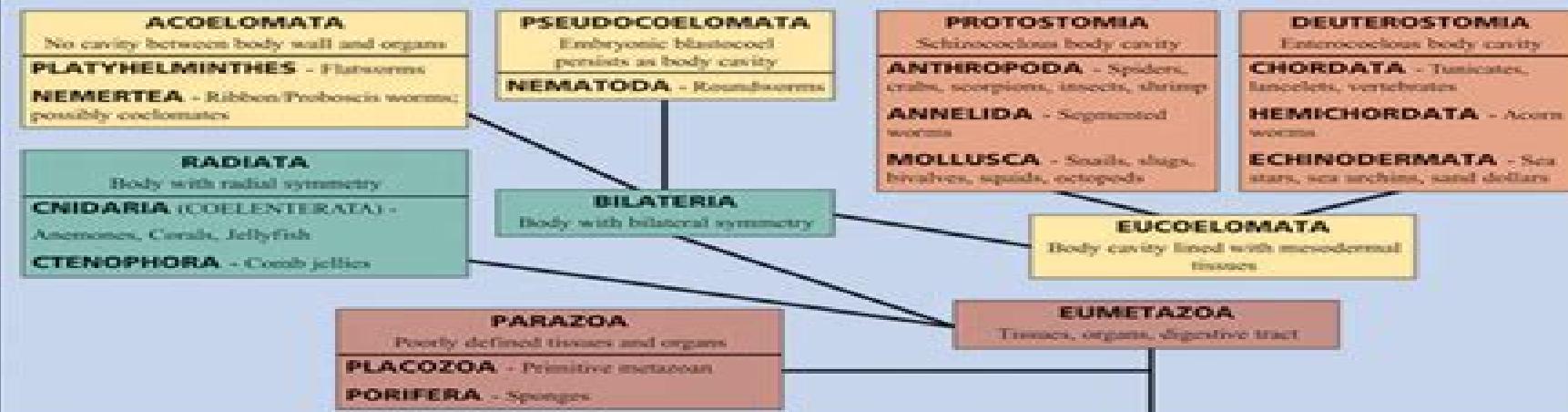


# ZOOLOGY



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 → 2 cell → 4 cell → 8 cell → 16 cell → Morula (solid ball of cells) → Blastula → Blastocoel chamber → Gastrula with blastopore 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
- Triloblastic - organisms produce all three layers

### 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)

### 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; protostomous feature
  - Indeterminate** - Fate of cells determined relatively late; separated early cells can develop into entire organism; allows for "twining"; 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)



- Holopluteus stage:** Mouth, a second opening in embryo forms anterior protostomous feature
- Ammocoete:** a second opening in embryo forms mesial deuterostomous 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)

### ACOELOMATES



### PSEUDOCOELOMATES



### COELOMATES



Star field

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**Charles Benedict Davenport, Gertrude  
Anna Crotty Davenport**

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