

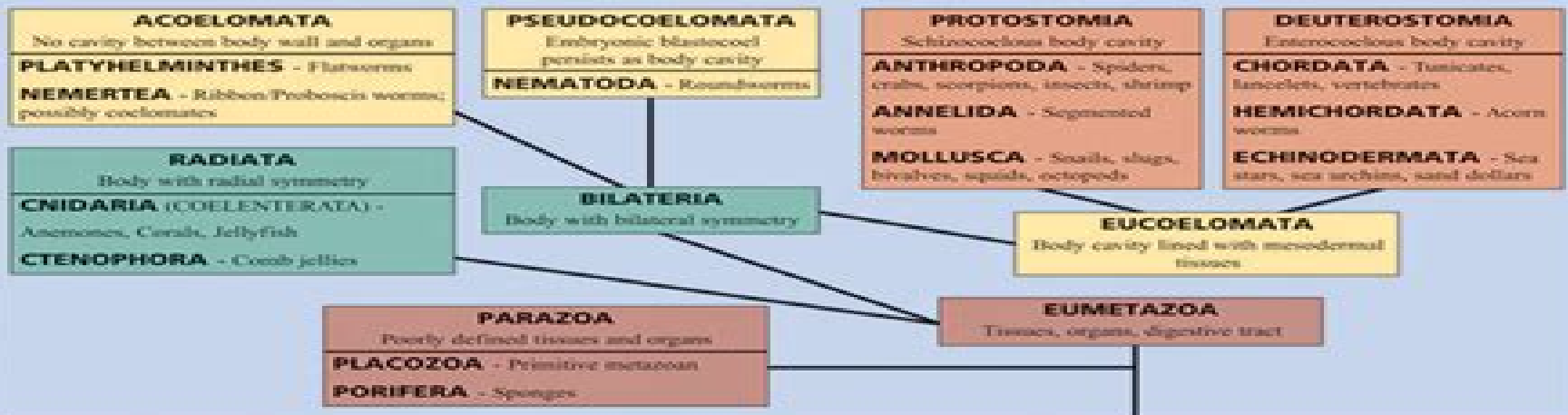
# ZOOLOGY

**Quick  
Study  
ACADEMIC**

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 locomotion
  - Relative independence from environment

### Symmetry

- Radial - Circular arrangement with numerous planes creating equal halves; no front/back or left/right sides; possess 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 head for orientation

#### 1. RADIAL



#### 2. BILATERAL



### Embryology

- Zygote → 2 cell → 4 cell → 8 cell → 16 cell → Morula (solid ball of cells) → Blastula w/ blastocoel chamber → Gastrula w/ blastopore and archenteron (embryonic gut) (3)



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

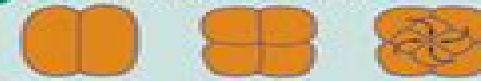
### 3. Protostome/deuterostome classification

#### a. Cleavage patterns

**Spiral cleavage** - New cells placed at junction between previous cells; protostome feature (4)

**Radial cleavage** - New cells placed directly beside or on top of previous cells; deuterostome 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; protostome feature
  - Indeterminate** - Fate of cells determined relatively late; separated early cells can develop into entire organism; allows for "twinning" or genetically identical individuals; deuterostome feature

- Coelem 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)



- Blastopore fate
  - Mouth**: a second opening in embryo forms anus; protostome feature
  - Anus**: a second opening in embryo forms mouth; deuterostome feature

#### c. Body plans

- Acoelomates** - No cavity between body wall and organs (1a)
- Pseudocoelomates** - Embryonic blastocoel persists as body cavity (1b)
- Coelemates** - Body cavity lined with mesodermal tissues (1c)

#### ACOELOMATES



#### PSEUDOCOELOMATES



#### COELOMATES



# Zoology Study Guides

**Heather Wilson Ashworth**



## **Zoology Study Guides:**

**Student Study Guide to Accompany General Zoology** Jane Aloï, Gina Erickson, 1999 Provides students with a tool for self study and can be used with any zoology text

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internal transport and circulatory system interspecific competition interspecific interactions invertebrates nervous system invertebrates sensory reception mammalian digestive system meiosis basis of sexual reproduction mineralized tissues and invertebrates mitosis cytokinesis and cell cycle molecules of animals muscular system of invertebrates muscular system of vertebrates mutations neurons basic unit of nervous system non muscular movement organization of DNA and protein scientific methods sex chromosomes and autosomes sexual reproduction in vertebrates zoology worksheets for competitive exams preparation

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