

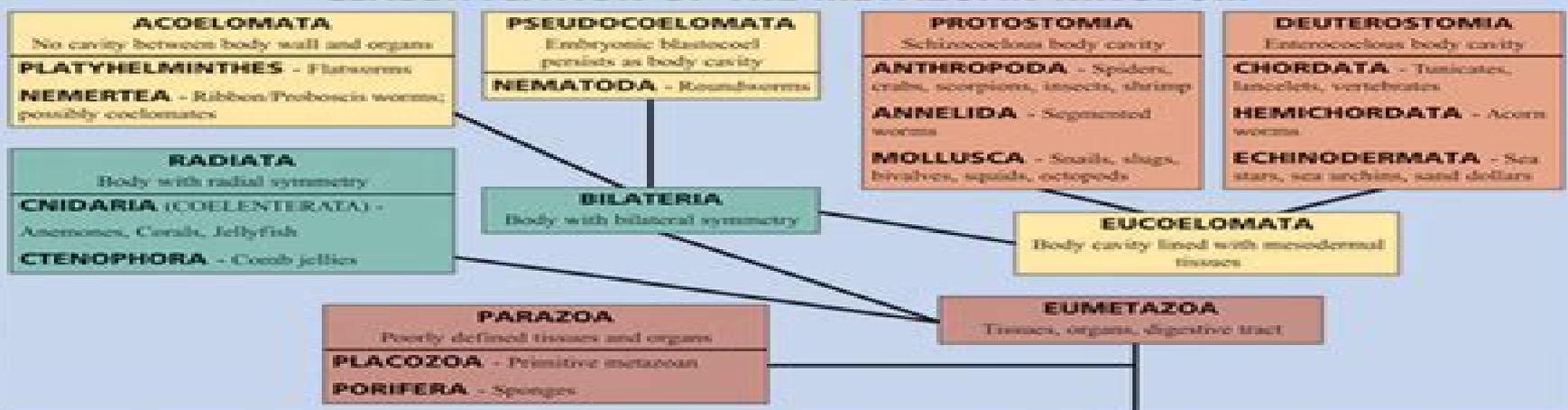
# ZOOLOGY

**Quick Study**  
**ACADEMIC**

parazoa

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

## CLASSIFICATION OF THE METAZOAN KINGDOM



## METAZOAN CHARACTERISTICS

### 1. 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: **Endoderm, Mesoderm, Ectoderm**

**Diploblastic** - Organisms produce only ectoderm and endoderm

**Triploblastic** - organisms produce all three layers

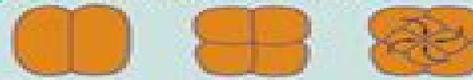
### 3. Protostome/deuterostome classification

#### 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

#### c. Coelom 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)

### 6 SCHIZOCOEL



### 7 ENTEROCOEL



#### d. Blastopore fate

**Mouth**; a second opening in embryo forms anus; protostome feature

**Anus**; a second opening in embryo forms mouth; deuterostome feature

#### e. Body plans

**Acoelomates** - No cavity between body wall and organs (1)

**Pseudocoelomates** - Embryonic blastocoel persists as body cavity (2)

**Coelomates** - Body cavity lined with mesodermal tissues (3)

#### ACOELOMATES



#### PSEUDOCOELOMATES



#### COELOMATES



# Zoology Study Guide

**Michael Brown**



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