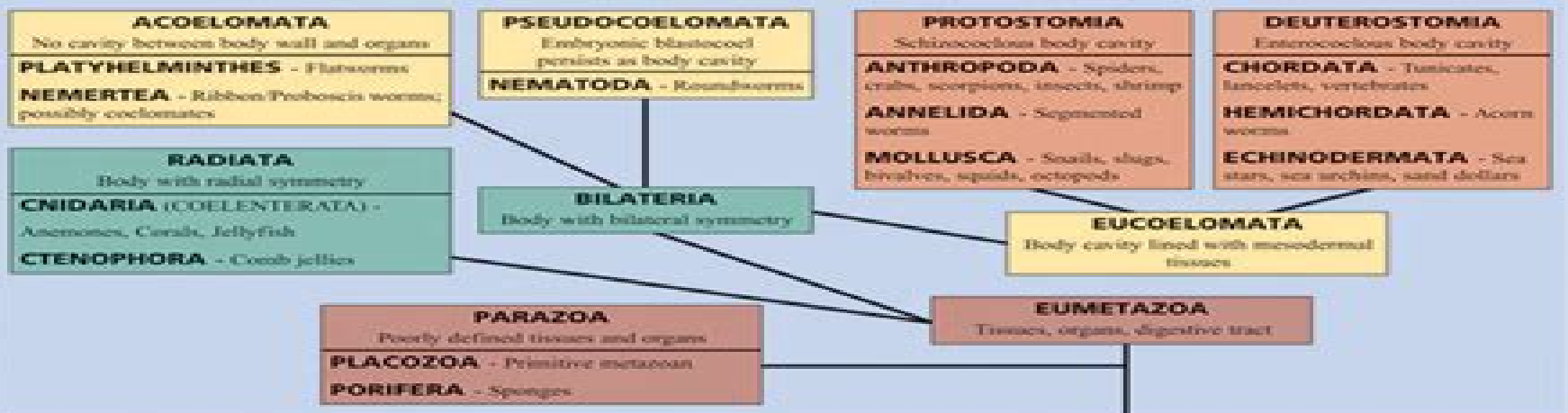


# ZOOLOGY

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 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

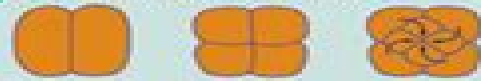
### 3. Protostome/deuterostome classification

#### a. Cleavage patterns

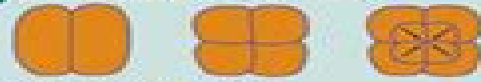
**Spiral cleavage** - New cells placed at junction between previous cells; protostome feature (4)

**Radial cleavage** - New cells placed directly beside or on top of previous cells; deuterostome feature (5)

#### 4. SPIRAL CLEAVAGE (TOP VIEW)

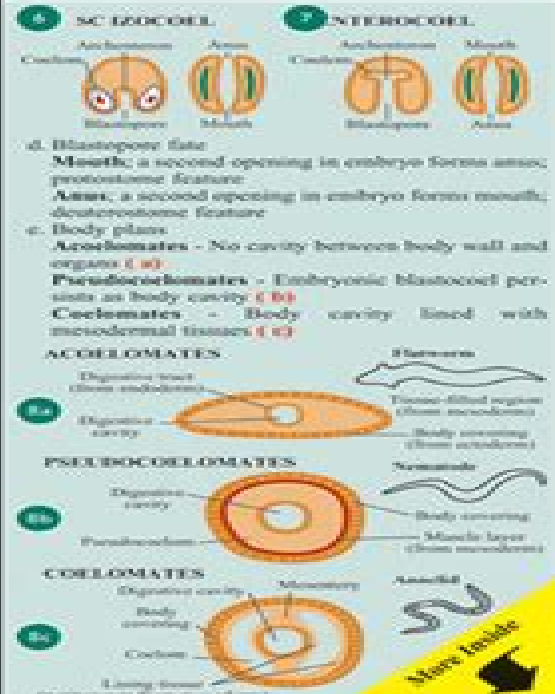


#### 5. RADIAL CLEAVAGE (TOP VIEW)



- 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

- 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)



# Zoology Study Guide

**Robert M. Brenner**



## **Zoology Study Guide:**

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