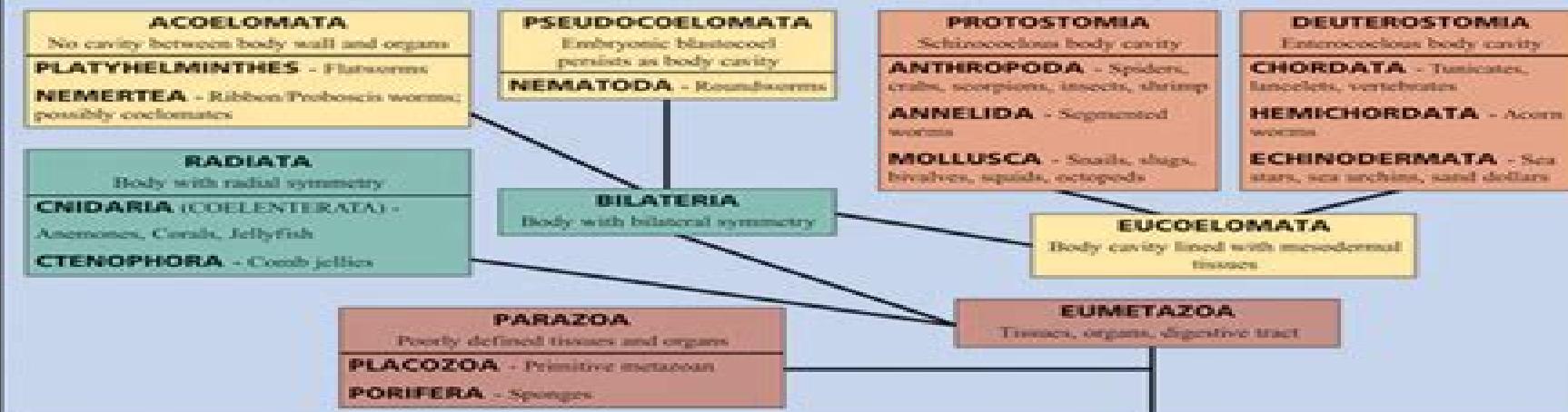


# ZOOLOGY



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  $\rightarrow$  2 cell  $\rightarrow$  4 cell  $\rightarrow$  8 cell  $\rightarrow$  16 cell  $\rightarrow$  Morula (solid ball of cells)  $\rightarrow$  Blastula  $\rightarrow$  Blastocoel (body cavity)  $\rightarrow$  Gastrula (digestive 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

### Protostome/Deuterostome classification

- Cleavage patterns
  - Spiral cleavage - New cells placed at juncture between previous cell; protostome feature (4)
  - Radial cleavage - New cells placed directly beside or on top of previous cell; deuterostome 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; protostome feature
  - Indeterminate - Fate of cells determined relatively late; separated early cells can develop into entire organism; allows for "twins" or genetically identical individuals; deuterostome feature
  - Cochlear 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 (6)
  - Mesothel - a second opening in embryo forms mesoderm feature
  - Ammothel - a second opening in embryo forms muscle; deuterostome feature
- Body plan
  - Ascohaemato - No cavity between body wall and organs (8)

- Paracelomates - Embryonic blastocoel persists as body cavity (9)
- Cocelomates - Body cavity lined with mesodermal tissues (10)

### ACOELOMATES



### PSEUDOCOELOMATES



### COELOMATES



Star field

# Zoology Study Guide

**W. Holt Harner**

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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 Villee Walker and Barnes General Zoology W. Holt Harner,1978-05 **Zoology** ,1966 **Human Physiology - Zoology 2420** ,2015 **Study Guide for Principles of Zoology** Kate Blackler,1969 *Life of Pi (Study Guide)* BookCaps Study Guides Staff,2011 The perfect companion to Yann Martel's *Life of Pi* this study guide contains a chapter by chapter analysis of the book a summary of the plot and a guide to major characters and themes BookCap Study Guides do not contain text from the actual book and are not meant to be purchased as alternatives to reading the book We all need refreshers every now and then Whether you are a student trying to cram for that big final or someone just trying to understand a book more BookCaps can help We are a small but growing company and are adding titles every month

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