

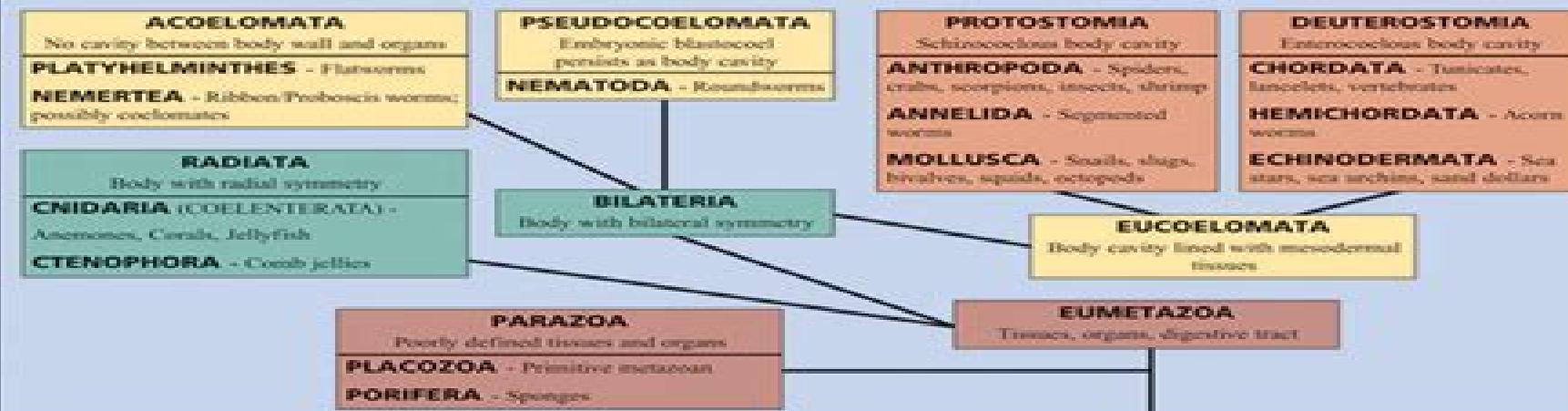
ZOOLOGY



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 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 chamber \rightarrow Gastrula \rightarrow Gastrula 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
- Triloblastic - 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)

SPIRAL 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)

ACOELOMATES



PLACOZOA



PORIFERA



ACOELOMATES



PSUEDOCOELOMATES



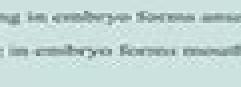
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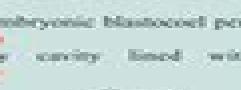
ENTEROCOEL



DEUTEROSTOMIA



PROTOSTOMIA



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PLACOZOA



PORIFERA



Zoology Study Guides

Heather Wilson Ashworth

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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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Zoology ,1966 **Study Guide for Principles of Zoology** Kate Blackler,1969 *Introduction to Zoology* Charles Benedict Davenport, Gertrude Anna Crotty Davenport,1900 **Introduction to Zoology** Charles Benedict

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