

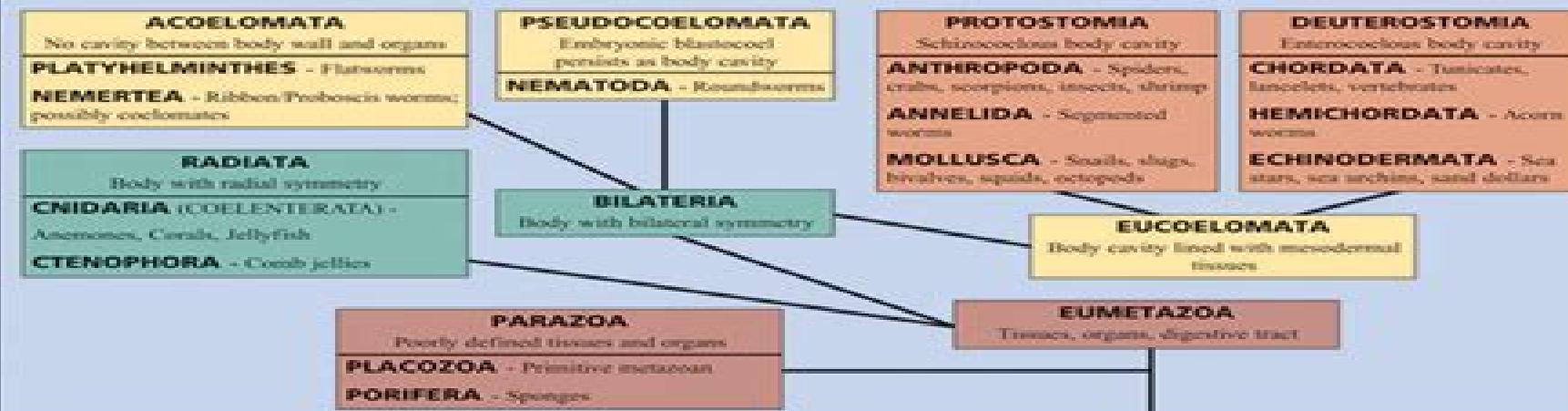
ZOOLOGY



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 fixed set of 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.
- 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)

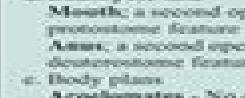


- Developmental fate of cells:
 - Determinate** - Fate of cells determined early; separated early cells incapable of developing into entire organism; protostome feature.
 - Indeterminate** - Fate of cells determined relatively late; separated early cells can develop into entire organism; allows for "twins" 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).

ACOELOMATES



PSUDEOCOELOMATES



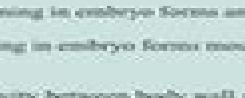
COELOMATES



ENTEROCOEL



SPRiAL CLEAVAGE



RADiAL CLEAVAGE



DEUTEROSTOMIA



PROTOSTOMIA



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Zoology Study Guide

Richard A. Boolootian

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