

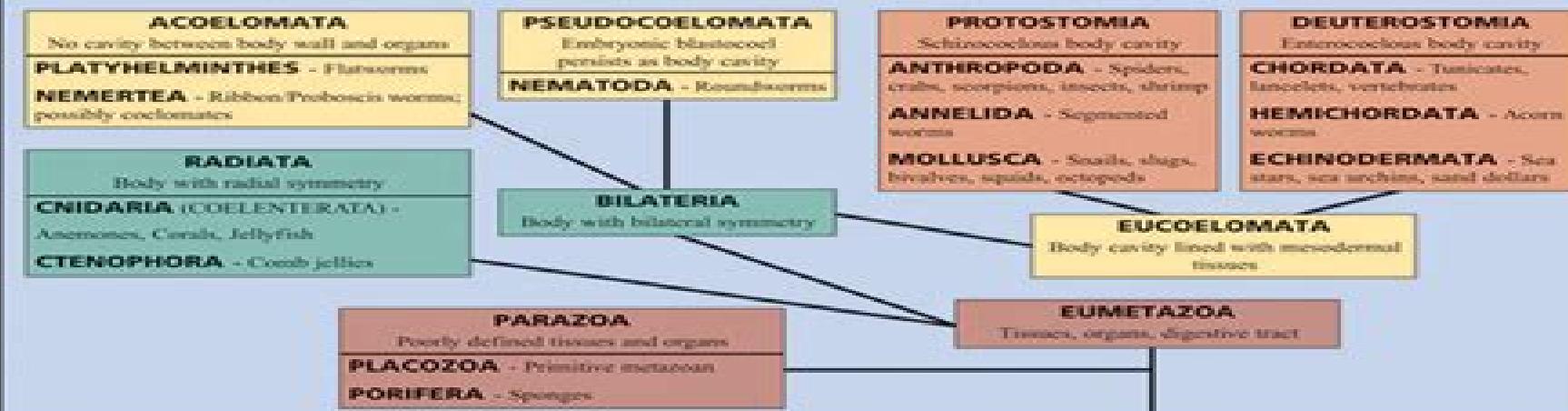
ZOOLOGY



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 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 with 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

PROTOSTOMIA/DEUTEROSTOMIA CLASSIFICATION

- Cleavage patterns
 - Spiral cleavage - New cells placed at juncture between previous cell; protostomous feature (4)
 - Radial cleavage - New cells placed directly beside or on top of previous cell; deuterostomous 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; protostomous feature
 - Indeterminate - Fate of cells determined relatively late; separated early cells can develop into entire organism; allows for "twins" or genetically identical individuals; deuterostomous feature
 - Cochlear formation - Body cavity lined by mesodermal tissues
 - Schizocoely - Derived from split in mesoderm; protostomous feature (6)
 - Enterocoely - Derived from outgrowth of archenteron; deuterostomous feature (7)

ACOELOMATE



PARAZOCA

- Blastopore (6)
 - Mouth - a second opening in embryo before anterior protostomous feature
 - Anus - a second opening in embryo before mesial deuterostomous feature

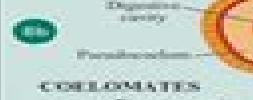
DEUTEROSTOMIA



ACOELOMATES



PSEUDOCOELOMATES



COELOMATES



ENTEROCOEL



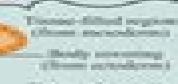
SPRiAL CLEAVAGE

- Body plan
 - Acoelomates - No cavity between body wall and organs (6)
 - Paracelomates - Embryonic blastocoel persists as body cavity (7)
 - Cochelomates - Body cavity lined with mesodermal tissues (8)

DEUTEROSTOMIA



ACOELOMATE



PSEUDOCOELOMATE



COELOMATE



Starfish
Star fish

Zoology Study Guide

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