

ZOOLOGY

parazoa

What is an animal? A multicellular, eukaryotic, heterotrophic organism lacking cell walls

CLASSIFICATION OF THE METAZOAN KINGDOM



METAZOAN CHARACTERISTICS

1. 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)



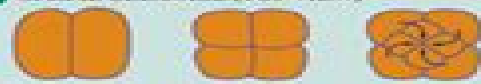
- Three germ layers (from which all tissues develop) in place during gastrula phase: **Ectoderm, Mesoderm, Endoderm**
- Diploblastic** - Organisms produce only ectoderm and endoderm
- Triploblastic** - organisms produce all three layers

3. Protostome/deuterostome classification

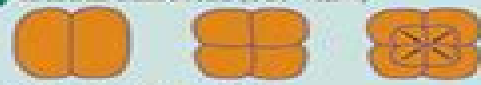
a. Cleavage patterns

- Spiral cleavage** - New cells placed at juncture 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)

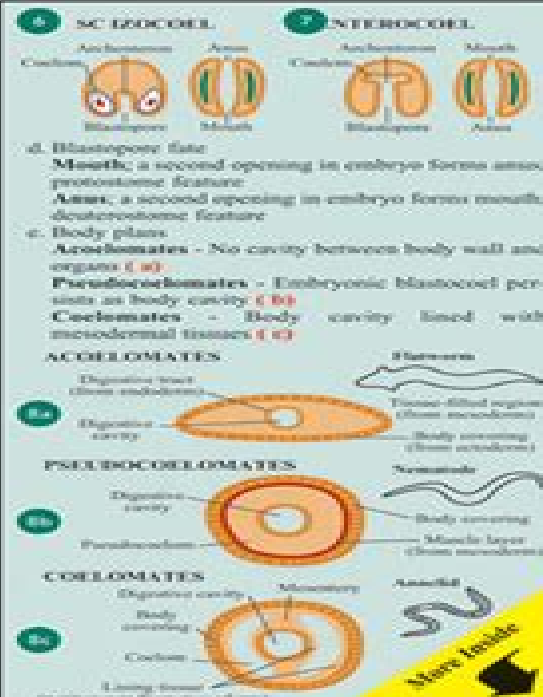


5. RADIAL CLEAVAGE (TOP VIEW)



- 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



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