

ZOOLOGY

Quick Study
ACADEMIC

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 homeostasis
- 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: **Endoderm, Mesoderm, Ectoderm**

Diploblastic - Organisms produce only ectoderm and endoderm

Triploblastic - organisms produce all three layers

3. Protostome/deuterostome classification

a. Cleavage patterns

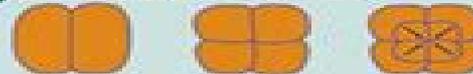
Spiral cleavage - New cells placed at junction between previous cells; protostome feature (4)

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

c. Coelom 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)

6 SCHIZOCOELE



7 ENTEROCOELE



d. Blastopore fate

Mouth; a second opening in embryo forms anus; protostome feature

Anus; a second opening in embryo forms mouth; deuterostome feature

e. Body plans

Acoelomates - No cavity between body wall and organs (1, 6)

Pseudocoelomates - Embryonic blastocoel persists as body cavity (1, 6)

Coelomates - Body cavity lined with mesodermal tissues (1, 6)

ACOELOMATES



PSEUDOCOELOMATES



COELOMATES



Many inside

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Ian Pickup



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 $\text{a q so } 2 \text{ 4 a q x al oh } 3 \text{ s al } 3 \text{ a q } 3 \text{ oh a q x pb oh cl s pb } 2 \text{ a q oh a q cl a q x}$

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