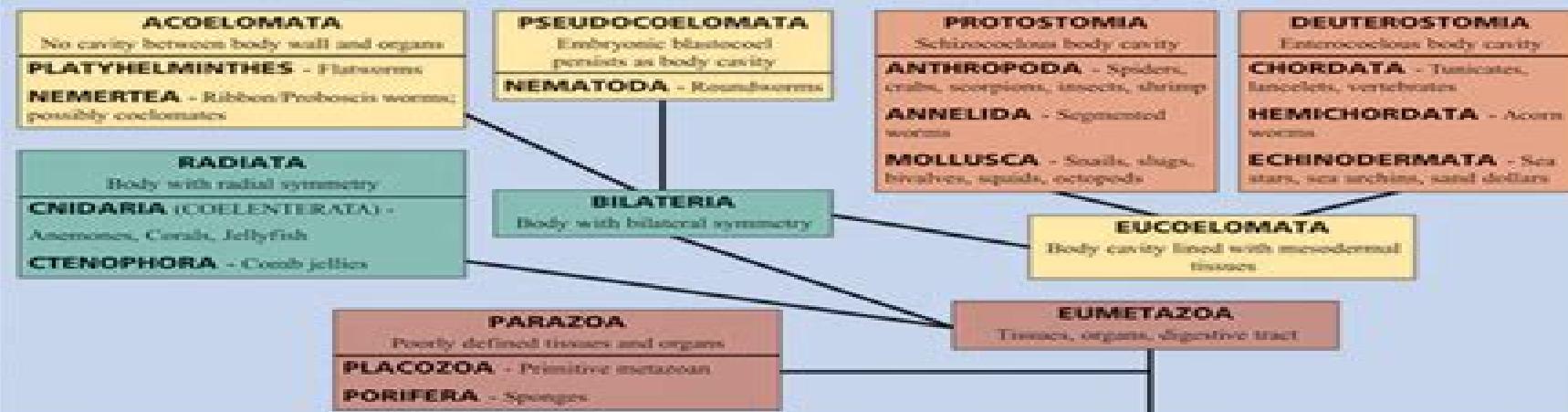


ZOOLOGY



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; 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

1. RADIAL



2. BILATERAL



Embryology

- Zygote \rightarrow 2 cell \rightarrow 4 cell \rightarrow 8 cell \rightarrow 16 cell \rightarrow Morula (solid ball of cells) \rightarrow Blastula \rightarrow Blastocoel (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

- Protostomes/deuterostomes 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).

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; 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.

- Coeelom formation - Body cavity lined by mesodermal tissues

Schizocoelous - Derived from split in mesoderm; protostomous feature (6).

Enterocoelous - Derived from outgrowth of archenteron; deuterostomous feature (7).

6. SCHIZOCOEL



7. ENTEROCOEL

8. BLASTOPORE

Mouth - A second opening in embryo forms mouth; protostomous feature.

Anus - A second opening in embryo forms mouth; deuterostomous feature.

9. BODY PLANES

Acocoelous - No cavity between body wall and organs (8).

Paracoeelous - Embryonic blastocoel persists as body cavity (9).

Coeelomates - Body cavity lined with mesodermal tissues (10).

ACOELOMATES



PSEUDOCOELOMATES



COELOMATES



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Alfred Marlyn Elliott

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