

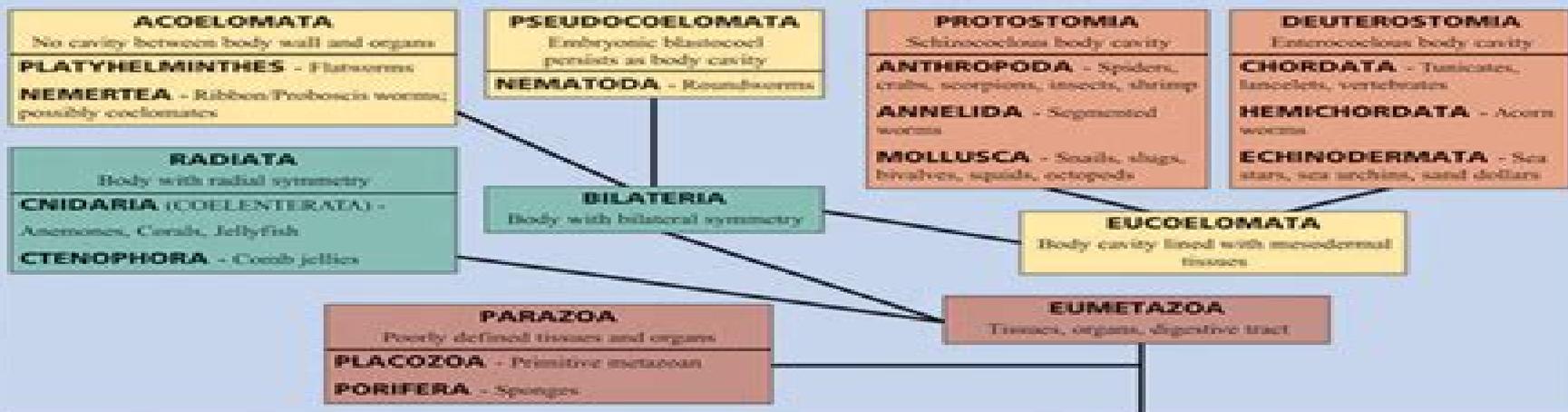
ZOOLOGY

Quick Study
ACADEMIC

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; 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
- Triplloblastic - organisms produce all three layers

3. Protostome/deuterostome classification

- 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)

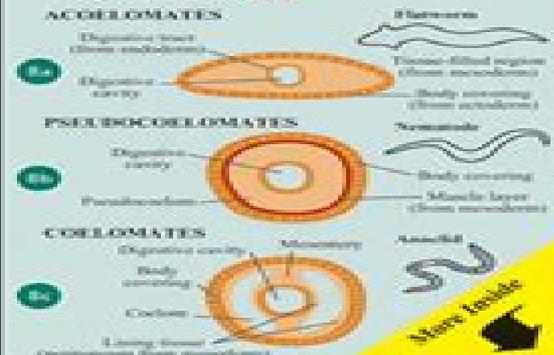


- Developmental fate of cells
 - Determinate - Fate of cells determined early; separated early cells incapable of developing into entire organism; protostome feature
 - Indeterminate - Fate of cells determined relatively late; separated early cells can develop into entire organism; allows for "twinning" or genetically identical individuals; deuterostome feature
- 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 SC (SCHIZOCEL) 7 ENTEROCOEL



- Blastopore fate
 - Mouth; a second opening in embryo forms anus; protostome feature
 - Anus; a second opening in embryo forms mouth; deuterostome feature
- Body plans
 - Acoelomates - No cavity between body wall and organs (1, 8)
 - Pseudocoelomates - Embryonic blastocoel persists as body cavity (1, 8)
 - Coelomates - Body cavity lined with mesodermal tissues (1, 9)



Zoology Study Guide

R Sandford



Zoology Study Guide:

Zoology Study Guide Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has become apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Zoology Study Guide**," published by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound affect our existence. Throughout this critique, we will delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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