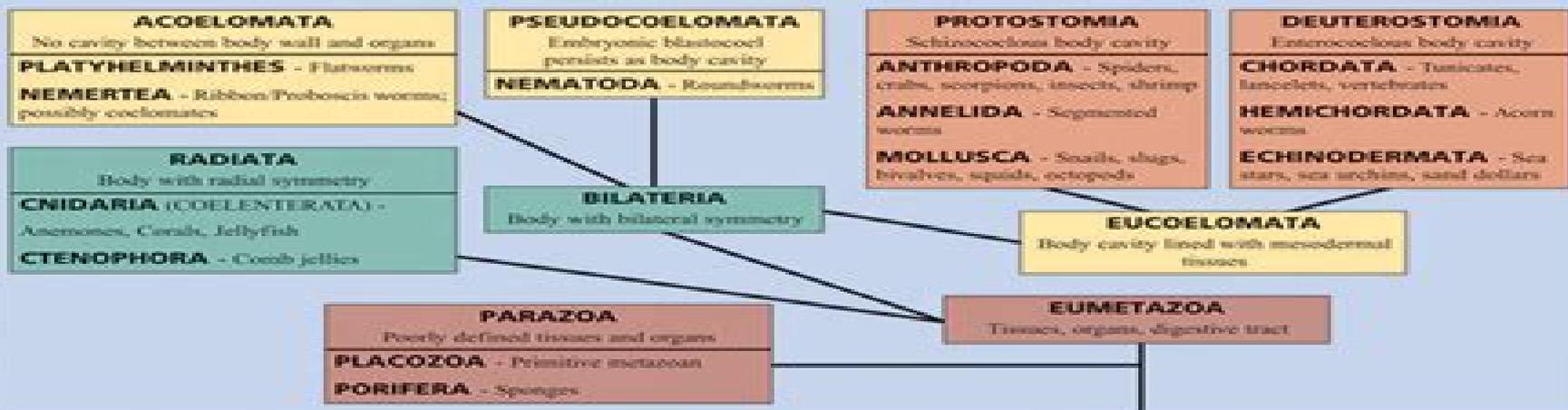


# ZOOLOGY

**Quick Study**  
**ACADEMIC**

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
- Triploblastic - 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)



- 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, 8)



Many inside

# Zoology Study Guides

**L Cohen**



## **Zoology Study Guides:**

This book delves into Zoology Study Guides. Zoology Study Guides is a crucial topic that must be grasped by everyone, from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Zoology Study Guides, encompassing both the fundamentals and more intricate discussions.

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  - Chapter 1: Introduction to Zoology Study Guides
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  - Chapter 5: Conclusion
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4. In chapter 3, this book will examine the practical applications of Zoology Study Guides in daily life. The third chapter will showcase real-world examples of how Zoology Study Guides can be effectively utilized in everyday scenarios.
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6. In chapter 5, the author will draw a conclusion about Zoology Study Guides. This chapter will summarize the key points that have been discussed throughout the book.

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