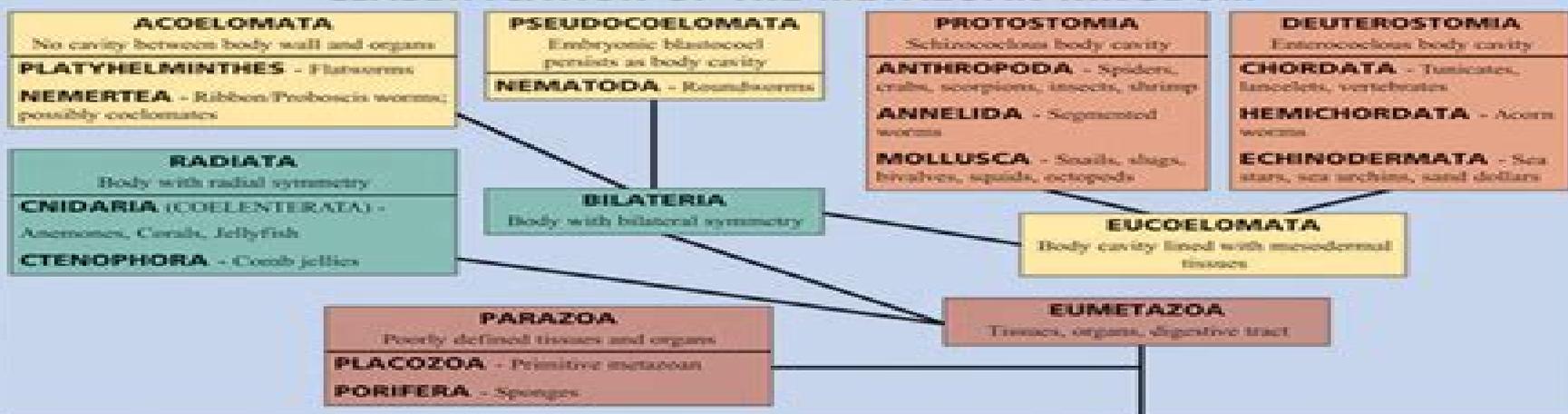


# ZOOLOGY

**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 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)

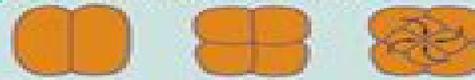


- Three germ layers (from which all tissues develop) in place during gastrula phase: Endoderm, Mesoderm, Ectoderm
- Diploblastic - Organisms produce only ectoderm and endoderm
- Triplloblastic - organisms produce all three layers

### 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)



- 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)
  - Pseudocoelomates - Embryonic blastocoel persists as body cavity (2)
  - Coelomates - Body cavity lined with mesodermal tissues (3)



# Zoology Study Guide

**Robert M. Brenner**



## **Zoology Study Guide:**

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## **Table of Contents Zoology Study Guide**

1. Understanding the eBook Zoology Study Guide
  - The Rise of Digital Reading Zoology Study Guide
  - Advantages of eBooks Over Traditional Books
2. Identifying Zoology Study Guide
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Zoology Study Guide
  - User-Friendly Interface
4. Exploring eBook Recommendations from Zoology Study Guide
  - Personalized Recommendations
  - Zoology Study Guide User Reviews and Ratings
  - Zoology Study Guide and Bestseller Lists
5. Accessing Zoology Study Guide Free and Paid eBooks
  - Zoology Study Guide Public Domain eBooks

- Zoology Study Guide eBook Subscription Services
- Zoology Study Guide Budget-Friendly Options
- 6. Navigating Zoology Study Guide eBook Formats
  - ePub, PDF, MOBI, and More
  - Zoology Study Guide Compatibility with Devices
  - Zoology Study Guide Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Zoology Study Guide
  - Highlighting and Note-Taking Zoology Study Guide
  - Interactive Elements Zoology Study Guide
- 8. Staying Engaged with Zoology Study Guide
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Zoology Study Guide
- 9. Balancing eBooks and Physical Books Zoology Study Guide
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Zoology Study Guide
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Zoology Study Guide
  - Setting Reading Goals Zoology Study Guide
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Zoology Study Guide
  - Fact-Checking eBook Content of Zoology Study Guide
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks

## 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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