

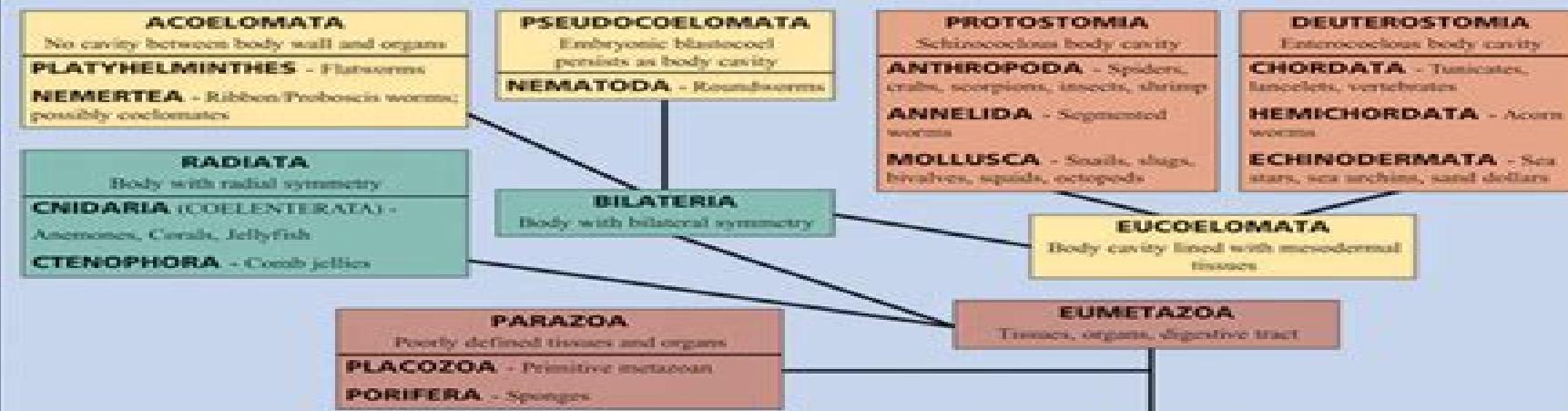
ZOOLOGY



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; 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 fixed set of orientation

Embryology

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

PROTOSTOMIA/DEUTEROSTOMIA CLASSIFICATION

- Cleavage patterns
 - Spiral cleavage - New cells placed at juncture between previous cell; protostomous feature (1)
 - Radial cleavage - New cells placed directly beside or on top of previous cell; deuterostomous feature (2)

SPRiAL CLEAVAGE (TOP VIEW)



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
 - Cochlear formation - Body cavity lined by mesodermal tissues
 - Schizocoely - Derived from split in mesoderm; protostomous feature (1)
 - Enterocoely - Derived from outgrowth of archenteron; deuterostomous feature (2)

ACOELOMATES



PSUEDOCOELOMATES



COELOMATES



ENTEROCOEL



SC COELOM



INTERCOEL



Zoology Study Guide

Heather Wilson Ashworth

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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