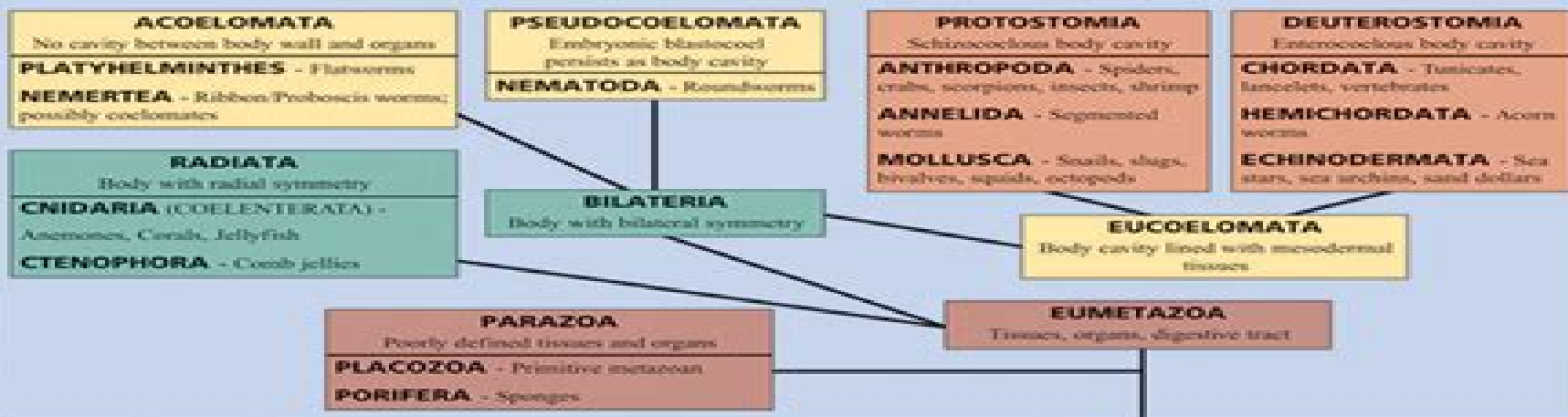


ZOOLOGY

parazoa

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 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)



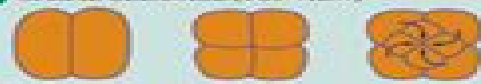
- Three germ layers (from which all tissues develop) in place during gastrula phase: **Ectoderm, Mesoderm, Endoderm**
- Diploblastic** - Organisms produce only ectoderm and endoderm
- Triploblastic** - organisms produce all three layers

3. Protostome/deuterostome classification

a. Cleavage patterns

- Spiral cleavage** - New cells placed at juncture 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

- Coelem 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

c. Body plans

- Acoelomates** - No cavity between body wall and organs (1a)
- Pseudocoelomates** - Embryonic blastocoel persists as body cavity (1b)
- Coelemates** - Body cavity lined with mesodermal tissues (1c)

ACOELOMATES



PSEUDOCOELOMATES



COELOMATES



More inside

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Richard A. Boolootian



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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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