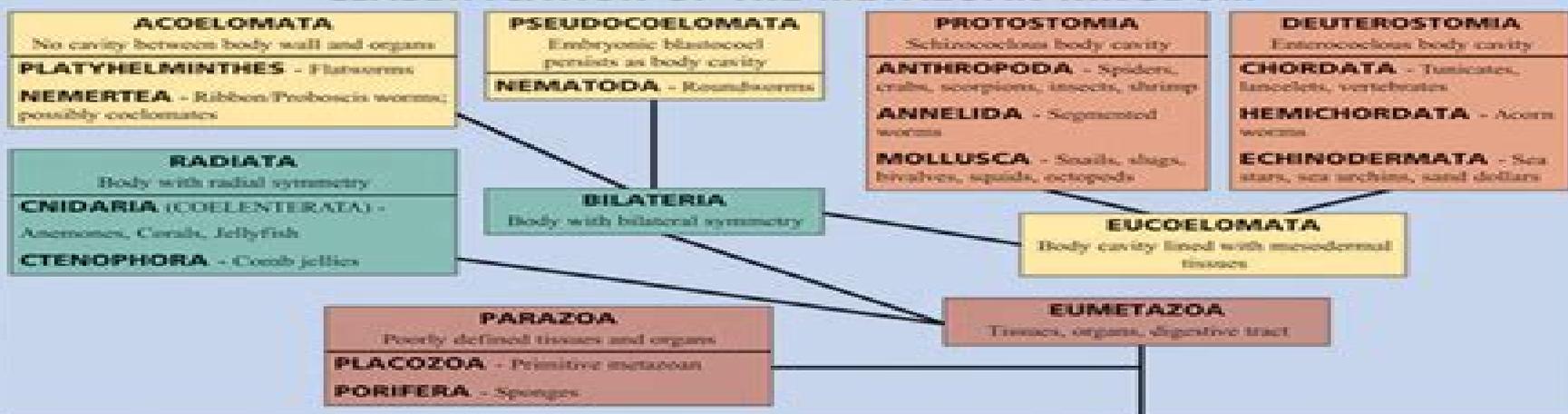


ZOOLOGY

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)

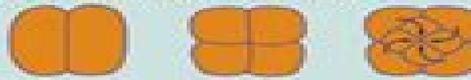


- Three germ layers (from which all tissues develop) in place during gastrula phase: Endoderm, Mesoderm, Ectoderm
- Diploblastic - Organisms produce only ectoderm and endoderm
- Triploblastic - organisms produce all three layers

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)

6 SCHIZOCOEL



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, 8)



Many inside

Zoology Study Guide

Alfred Marlyn Elliott



Zoology Study Guide:

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digestive system meiosis basis of sexual reproduction mineralized tissues and invertebrates mitosis cytokinesis and cell cycle molecules of animals muscular system of invertebrates muscular system of vertebrates mutations neurons basic unit of nervous system non muscular movement organization of DNA and protein scientific methods sex chromosomes and autosomes sexual reproduction in vertebrates zoology worksheets for competitive exams preparation **Zoology**, 1966

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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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