

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)

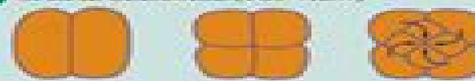


- Three germ layers (from which all tissues develop) in place during gastrula phase: Endoderm, Mesoderm, Ectoderm
- Diploblastic - Organisms produce only ectoderm and endoderm
- Triploblastic - organisms produce all three layers

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



Zoology Study Guide

Alfred Marlyn Elliott



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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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