#### Life on Earth

## Evolution of Eukaryotes to Multicellular Life

### Evolution of Eukaryotic Cells

- Several different specialized prokaryotes began to live together in a symbiotic relationship. These cell types took on specialized functions, and became organelles in a larger cell.
- A eukaryote is a cell that contains a separate nucleus to hold its DNA and RNA.

#### Multicellular Life

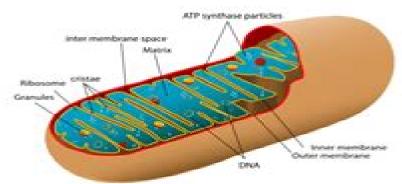
- Prokaryotes and Eukaryotes can both be multicellular.
- Multicellular life may have evolved several times throughout Earth's history.

## Why It Took So Long

- Evolutionary processes are generally slow
- No evolutionary advantage to being larger and more complex
- Harsh conditions during Earth's earlier years
  - Limited atmospheric oxygen
  - o Planet was too cold for complex life
  - Extinction due to global glaciations

#### Study Tip

To remember the difference between eukaryotes and prokaryotes, remember that you are a eukaryote. Humans are large, complex organisms whose eukaryotic cells have nuclei.



Eukaryotic cells formed as simpler, specialized prokaryotes began working together in cells.

## Concept Check

- What are the differences between eukaryotes and prokaryotes?
- How did one evolve into the other?
- · Why did complex life take so long to evolve?

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

- 5. Accessing Study Guide 5 4 Multicellular Life Free and Paid eBooks
  - Study Guide 5 4 Multicellular Life Public Domain eBooks
  - Study Guide 5 4 Multicellular Life eBook Subscription Services
  - Study Guide 5 4 Multicellular Life Budget-Friendly Options
- 6. Navigating Study Guide 5 4 Multicellular Life eBook Formats
  - ∘ ePub, PDF, MOBI, and More
  - Study Guide 5 4 Multicellular Life Compatibility with Devices
  - Study Guide 5 4 Multicellular Life Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Study Guide 5 4 Multicellular Life
  - Highlighting and Note-Taking Study Guide 5 4 Multicellular Life
  - Interactive Elements Study Guide 5 4 Multicellular Life
- 8. Staying Engaged with Study Guide 5 4 Multicellular Life
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Study Guide 5 4 Multicellular Life
- 9. Balancing eBooks and Physical Books Study Guide 5 4 Multicellular Life
  - Benefits of a Digital Library
  - $\circ\,$  Creating a Diverse Reading Collection Study Guide 5 4 Multicellular Life
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Study Guide 5 4 Multicellular Life
  - Setting Reading Goals Study Guide 5 4 Multicellular Life
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Study Guide 5 4 Multicellular Life
  - Fact-Checking eBook Content of Study Guide 5 4 Multicellular Life
  - 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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