### 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

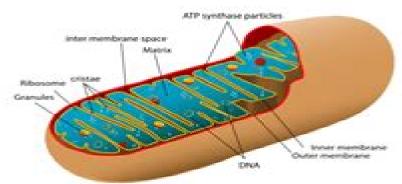
- Prokaryotes and Eukaryotes can both be multicellular.
- Multicellular life may have evolved several times throughout Earth's history.

## 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?

# **Multicellular Life Study Guide Answers**

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**Multicellular Life Study Guide Answers:** 

### Decoding Multicellular Life Study Guide Answers: Revealing the Captivating Potential of Verbal Expression

In a period characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its capability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "Multicellular Life Study Guide Answers," a mesmerizing literary creation penned by a celebrated wordsmith, readers set about an enlightening odyssey, unraveling the intricate significance of language and its enduring effect on our lives. In this appraisal, we shall explore the book is central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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