

## 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.

### Study Tip

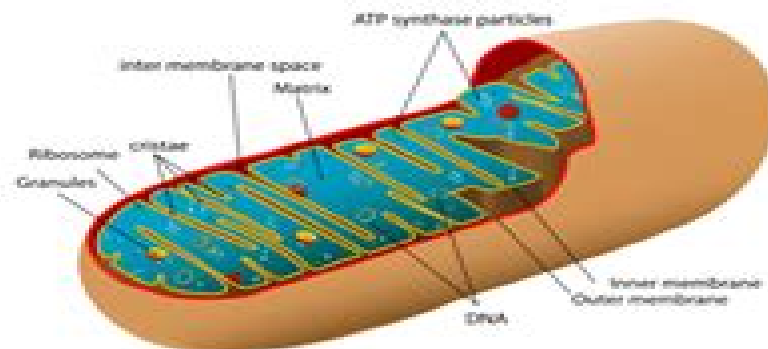
To remember the difference between eukaryotes and prokaryotes, remember that **you** are a **eukaryote**. Humans are large, complex organisms whose eukaryotic cells have nuclei.

## 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
  - Planet was too cold for complex life
  - Extinction due to global glaciations



*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?

# Section 5 Multicellular Life Study Guide A

**Jessica J Manson**



## **Section 5 Multicellular Life Study Guide A:**

## Section 5 Multicellular Life Study Guide A Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Section 5 Multicellular Life Study Guide A**," published by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we will delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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