# 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

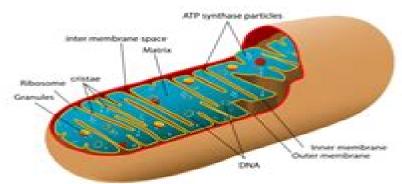
- Prokaryotes and Eukaryotes can both be multicellular.
- Multicellular life may have evolved several times throughout Earth's history.

# 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?

# **Section 5 Multicellular Life Study Guide**

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Orians, Craig Heller, William K. Purves

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Excel Science Study Guide, Years 7-8 Nicholas Pefani, 2005 Summary & Study Guide - Microbia Lee Tang, 2019-06-01 Microbes connect all living and nonliving things on Earth This book is a summary of Microbia A Journey into the Unseen World Around You by Eugenia Bone New discoveries about how microbes affect our lives occur every day but it seems to require an advanced degree in biology to understand how they impact us Journalist Eugenia Bone returned to college in her fifties to help make sense of these creatures What she learned is that microbes connect to all living things They also connect nonliving things to living things They maintain the balance of chemicals on the planet and convert carbon dioxide into food that travels up the food chain Inside our cells are the remnants of ancient bacteria called mitochondria that convert the oxygen we breathe into energy In Microbia Bone chronicles what she learned in her year of studying biology It begins with the origin of life and how microbes affect the atmosphere and soil connecting nonliving things to living things She explores how microbes influence the evolution of all living things and why plants and animals evolve with their microbes Read this primer to understand the entwined worlds of microbes and the rest of life on Earth This guide includes Book Summary helps you understand the key concepts Online Videos cover the concepts in more depth Value added from this guide Save time Understand key concepts Expand your knowledge Life Study Guide David E. Sadava, Gordon H. Orians, Craig Heller, William K. Purves, 2006-12-22 Especially helpful for AP Biology students each chapter of the study guide offers a variety of study and review tools The contents of each chapter are broken down into both a detailed review of the Important Concepts covered and a boiled down Big Picture snapshot The guide also covers study strategies common problem areas and provides a set of study questions both multiple choice and short answer Excel Science Study Guide, Years 9-10 Will Marchment, 2004 The book contains coverage of five major topic areas in the NSW School Certificate test Energy Force and Motion Atoms Elements and Compounds Structure and Function of Liv ing Things Earth and Space Ecosystems Resources and T echnology a chapter on Investigations and Problem Solving in Sc ience to help with practical skills revision questions and chap ter tests to help you remember important information a glossary and summary in each section of the book diagrams and illustrat ions to help your understanding a section to help you prepare f or the School Certificate test a sample School Certificate test paper with answers answers to all questions Self Study Guide for PVT 2022 Arihant Experts, 2021-09-02 1 All India Pre Veterinary Test Entrance Examination is prepared for the entrance of the VET 2 The Guide is divided into 4 main sections 3 Complete Study Material as per prescribed syllabus Pattern by AIPVT 4 Previous Years Solved Papers for practice 5 Division of chapters strictly based on the latest syllabus 6 Step by step guidance is provided for better understanding of the concepts To succeed in the AIPVT Examination grab your copies of Self Study Guide PVT All India Pre Veterinary Test a revised edition that has been prepared exactly on the lines of pattern Level and syllabi of the exam Its approach has been kept simple and lucid presented in a Step by Step manner for complete grasp of the content This guide

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