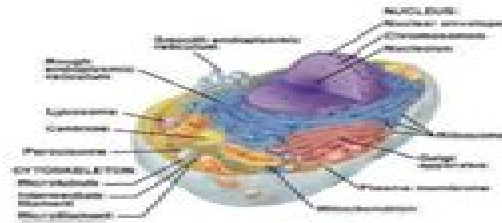
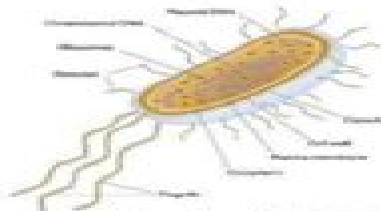


Unit 2: Cell Biology Study Guide

prokaryotic vs eukaryotic cells

- prokaryotic cells
 - bacteria and archaea
 - have a nucleoid but no nucleus and no true organelles
- eukaryotic cells
 - membrane-bound nucleus and organelles



compartmentalization in eukaryotes

- why are eukaryotic cells so large?
 - compartmentalization: the ability to section off/compartmentalize functions
 - membrane-separated spaces are known as organelles
- why is it important?
 - efficiency: multiple parts of the cell aren't doing the same thing and each part is doing a function they are specialized in
- how did it occur?
 - eukaryotic cells first appeared 2.5 billion years ago
 - internal membranes allow for the compartmentalization of functions
 - endosymbiont theory
 - a prokaryotic cell was engulfed by a larger cell → organelles
 - evidence: mitochondria have their own DNA, and it resembles bacterial DNA; mitochondria undergo binary fission (cell division) to reproduce; mitochondria and chloroplasts have a double membrane indicating one membrane engulfed another
- difference between animal and plant cells
 - lysosomes are not found in plant cells
 - plant cells have cell walls, chloroplasts, and a central vacuole

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Jiyuan Zhang



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Table of Contents Biology Study Guide Old Syllabus

1. Understanding the eBook Biology Study Guide Old Syllabus
 - The Rise of Digital Reading Biology Study Guide Old Syllabus
 - Advantages of eBooks Over Traditional Books
2. Identifying Biology Study Guide Old Syllabus
 - 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 Biology Study Guide Old Syllabus
 - User-Friendly Interface
4. Exploring eBook Recommendations from Biology Study Guide Old Syllabus
 - Personalized Recommendations
 - Biology Study Guide Old Syllabus User Reviews and Ratings

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