

BIOLOGY II CHAPTER NOTES

CHAPTER 25: The History of Life on Earth (1/26/21)

- How did the first living cells appear?
 - **Hypothesis:** abiotic (nonliving) synthesis of small organic (amino acids/nitrogenous bases) molecules. Joins with multiple organic molecules to form macromolecules (proteins/nucleic acids). Turns the packaging of the macromolecules into protocells (lipid-like vesicles) which makes it the stepping stone towards the origin of life. With the ability to self-replicate, inheritance is possible.
- *A.I. Oparin & J.B.S. Haldane* hypothesized that early Earth's atmosphere was a reducing environment which means that organic molecules could've been formed from simpler molecules. The energy needed for that came from lightning and UV radiation.
 - *Stanley Miller & Harold Urey* tested their hypothesis and came to the conclusion that the early atmosphere was primarily composed of nitrogen and CO₂ which wasn't reducing or oxidizing. So neutral atmospheres also produced organic molecules.
- Hydrothermal vents: areas on the seafloor where heated water and minerals (300–400°C) are released from Earth's interior into the ocean. Hypothesis proposed that unstable organic compounds may have formed there.
- Alkaline vents: released water at a high pH (9–11) at warm temperatures (40–90°C). This is a more suitable environment for the origin of life.
- Murchinson meteorite: landed in Australia billions of years ago and it contained more than 80 amino acids that consisted of D and L isomers (organisms only use L isomers). And it contained lipids, simple sugars, and nitrogenous bases (uracil). It could've been a source of organic molecules.
- Abiotically produced vesicles can exhibit certain properties of life (simple reproduction/metabolism) and the maintenance of an internal chemical different from that of their surroundings.
 - Vesicles can form when lipids are added to water. When this happens, the molecules have both a hydrophilic and hydrophobic bilayer which can further organize with a lipid bilayer of a plasma membrane.
 - Some vesicles have a selectively permeable bilayer and can perform metabolic reactions using an external source of reagents (another prerequisite for life).
 - Adding montmorillonite (mineral clay) increases vesicle formation.
- Vesicles exhibit some of the properties of life such as, reproduction, metabolism, simple growth without dilution of contents, and maintenance of internal environment different from surroundings.

Emmanuel Biology 2chapter Answers

Sebastian Brünink



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Table of Contents Emmanuel Biology 2chapter Answers

1. Understanding the eBook Emmanuel Biology 2chapter Answers
 - The Rise of Digital Reading Emmanuel Biology 2chapter Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Emmanuel Biology 2chapter Answers
 - 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 Emmanuel Biology 2chapter Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Emmanuel Biology 2chapter Answers
 - Personalized Recommendations
 - Emmanuel Biology 2chapter Answers User Reviews and Ratings
 - Emmanuel Biology 2chapter Answers and Bestseller Lists
5. Accessing Emmanuel Biology 2chapter Answers Free and Paid eBooks
 - Emmanuel Biology 2chapter Answers Public Domain eBooks
 - Emmanuel Biology 2chapter Answers eBook Subscription Services
 - Emmanuel Biology 2chapter Answers Budget-Friendly Options
6. Navigating Emmanuel Biology 2chapter Answers eBook Formats

- ePub, PDF, MOBI, and More
- Emmanuel Biology 2chapter Answers Compatibility with Devices
- Emmanuel Biology 2chapter Answers Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Emmanuel Biology 2chapter Answers
 - Highlighting and Note-Taking Emmanuel Biology 2chapter Answers
 - Interactive Elements Emmanuel Biology 2chapter Answers
- 8. Staying Engaged with Emmanuel Biology 2chapter Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Emmanuel Biology 2chapter Answers
- 9. Balancing eBooks and Physical Books Emmanuel Biology 2chapter Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Emmanuel Biology 2chapter Answers
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Emmanuel Biology 2chapter Answers
 - Setting Reading Goals Emmanuel Biology 2chapter Answers
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Emmanuel Biology 2chapter Answers
 - Fact-Checking eBook Content of Emmanuel Biology 2chapter Answers
 - 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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