

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

Scott C. Dulebohn



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