

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.

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