

24.1-21.4

All of chapter 25

Chapter 24: Early Life and the Diversification of Prokaryotes

- **Prokaryotes** - An organism that has a prokaryotic cell; an informal term for an organism in either domain bacteria or domain archaea

24.1: Conditions on Early Earth made the Origin of Life Possible:

- They hypothesize that chemical and physical processes could have produced simple cells through a sequence of four main stages:
  - The abiotic (nonliving) synthesis of small organic molecules, such as amino acids and nitrogenous bases
  - The joining of these small molecules into macromolecules, such as proteins and nucleic acids
  - The packaging of these molecules into **protocells**, droplets with membranes that maintained an internal chemistry different from that of their surroundings
    - **Protocells** - A abiotic precursor of a living cell that had a membrane-like structure and that maintained an internal chemistry different from that of its surroundings
  - The origin of self-replicating molecules that eventually made inheritance possible

Synthesis of Organic Compounds on Early Earth:

- Russian chemist A. I. Oparin and British scientist J. B. S. Haldane independently hypothesized that Earth's early atmosphere was a reducing (electron-adding) environment, in which organic compounds could have formed from simpler molecules.
- Some evidence suggests that the early atmosphere was made up primarily of nitrogen and carbon dioxide and was neither reducing nor oxidizing (electron removing).

Abiotic Synthesis of Macromolecules:

- Abiotic synthesis of small organic molecules is possible under various conditions.
  - However, the presence of small organic molecules, such as amino acids and nitrogenous bases, is not sufficient for the emergence of life as we know it.
- The abiotic synthesis of RNA's four bases (A, C, G, U), can occur spontaneously from simple precursor molecules.

Protocells:

- All organisms must be able to carry out both reproduction and energy processing (metabolism).
- Self-replicating molecules and a metabolic source of building blocks may have appeared together in early protocells.
- The necessary conditions may have been met in *vesicles*, fluid-filled compartments enclosed by a membrane-like structure.
- Abiotically produced vesicles can "reproduce" on their own, and they can increase in size ("grow") without dilution of their contents.

Self-Replicating RNA:

- **Ribozymes** - An RNA molecule that functions as an enzyme, such as an intron that catalyzes its own removal during RNA splicing.
- Unlike double-stranded DNA, which takes the form of a uniform helix, single-stranded RNA molecules assume a variety of specific three-dimensional shapes mandated by their nucleotide sequences.

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**Wolfgang Guggemos**



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