

High yield Facts from Origin of Life

1. Theory of Biogenesis was put forward by Louis Pasteur in 1862 to explain the origin of life. It states that life originates only from pre-existing life.
2. **Protobionts** are aggregates of artificially produced pre-biotic molecules in experimental conditions. It shows the capacity to maintain internal environment but lacks the ability of division.
3. **Coacervate** is a mixture of proteins and polysaccharides surrounded by a film of water. Since a lipid bilayer is absent, it lacks the ability to divide.
4. **Congogeny** refers to the evolution of perception, expression and communication in the primitive organism (Eiobionts). Congogeny marked the diversification and evolution of photosynthesis.
5. The primitive atmosphere was reducing without oxygen. Oxygen was bound in the water molecules and in metallic oxides. Ozone layer was also absent in the primitive atmosphere.
6. The energy for the chemical reactions in the primitive earth was obtained from UV radiation.
7. Urey and Miller used a mixture of Water, Methane, Ammonia and Hydrogen in the Spark chamber to conduct experiment to prove chemical origin of life. They obtained amino acids and peptides after the experiment.
8. The first photosynthetic organisms were Cyanobacteria.
9. Galapagos Islands are a group of 14 islands in the Pacific Ocean near South America.
10. Darwin observed variations among the plants and animals inhabiting the Galapagos Islands.