

BIO 4TH PDF

The Primordial Atmosphere

The atmosphere of primitive Earth was a reducing atmosphere (lacking oxygen).

Organic molecules that formed building blocks of life could have been formed given conditions that prevailed on primitive Earth.

Polymers from Monomers

- It is thought that polymerization reactions could have occurred on solid surfaces.
- Example: Clay

Scenario for Evolution of Flow of Information

Living cells required the development of a system based on nucleic acids that could store and pass on the information required to make proteins.

Proteins and DNA

- Proteins became the dominant structural and functional macromolecules of all cells.
- Greater diversity
- Much higher rate of catalysis
- DNA is more structurally complex and stable than RNA and thus evolved as a better repository of genetic information.

The first three eons in the geologic record—the Hadean, the Archaean, and the Proterozoic—together lasted about 4 billion years.

- The Phanerozoic eon, roughly the last half billion years, encompasses most of the time animals have existed on Earth.

- The Phanerozoic eon is divided into 3 eras: - Paleozoic, Mesozoic, Cenozoic

Each era represents a distinct age in the history of Earth and its life.

- For example, the Mesozoic era is sometimes called the “age of reptiles” because of its abundance of reptilian fossils, including those of dinosaurs.
- The boundaries between the eras correspond to major extinction events, when many forms of life disappeared and were replaced by forms that evolved from the survivors.

The First Single-Celled Organisms

Earth's first organisms were single-celled prokaryotes that lived in the ocean.

- The earliest direct evidence of these organisms, dates from 3.5 billion years ago.
- The evidence of these organisms, comes from fossilized stromatolites.
- Stromatolites are layered rocks that form when certain prokaryotes bind thin films of sediment together.

First organisms:

1. Anaerobic chemoheterotrophs (prokaryotes): Metabolized pre-existing organic molecules.
$$C_6H_{12}O_6 \longrightarrow 2 C_2H_5OH + 2 CO_2 + \text{energy}$$

(glucose) (ethanol)

As the organic molecules in prebiotic soup were made very slowly, the anaerobic heterotrophs would have gradually exhausted the supply of these organic molecules.

Cells that evolved the ability to synthesize organic molecules from the inorganic sources would have had a growth advantage.

Photosynthesis and the Oxygen Revolution

Most atmospheric oxygen gas (O_2) is of biological origin, produced during the water-splitting step of photosynthesis (2.7 billion years ago).

- Photosynthesis first evolved—in photosynthetic prokaryotes similar to today's cyanobacteria (blue-green algae).
- The free O_2 it produced probably dissolved in the surrounding water until it reached a high enough concentration to react with elements dissolved in water.

- When the water became saturated with O_2 , the O_2 began to “gas out” of the water and enter the atmosphere.

The First Eukaryotes

The oldest widely accepted fossils of eukaryotes are of single-celled organisms that lived 1.8 billion years ago.

- Eukaryotic cells have more complex organization than prokaryotic cells.
- Eukaryotic cells have a nuclear envelope, mitochondria, endoplasmic reticulum, and other internal structures that prokaryotes lack.
- Eukaryotic cells have a well-developed cytoskeleton.

Mitochondria are membrane-bound organelles in which cellular respiration occurs.

➤ Cellular respiration is the process by which energy-rich food molecules (sugars, fats, and other fuels) are broken down to water and carbon dioxide, and energy is captured in ATP.

➤ Mitochondria require oxygen for cellular respiration; breathing supplies oxygen for mitochondrial reactions.

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Nikki Moustaki



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