

# Chapter 25- History of Life

## Conditions on Early Earth

Stages of Chemical and Physical Processes:

1. Abiotic syntheses of small organic compounds-AA, nitrogenous bases
2. Joining of small molecules- macromolecules
3. Packing of molecules into protocells
  - a. Protocells: abiotic precursor of living cell with membrane like structure and maintained internal chemistry different from surroundings
4. Origin of self-replicating molecules that made inheritance possible

Synthesis of Organic Compounds:

Protocells:

- Self-replicating molecules plus metabolic source of building blocks appeared in protocells
- Recent experiments—abiotically produced vesicles can exhibit certain properties of life (reproduction and metabolism) and maintain internal environment

Self-replicating RNA:

- RNA came first
  - o Needed in protein synthesis
  - o Ribozymes: RNA catalysts

## Fossil Record

Fossil Records reveals changes in history of life on Earth, sedimentary rocks are richest source

Fossil Record is biased favour of species that:

- Existed for long time
- Abundant and widespread
- Had hard body parts

Fossil discoveries can be a matter of chance/prediction

Record is based on order in which fossils have accumulated in strata

- Incomplete chronicle of evolutionary change

Dating:

- Sedimentary strata reveal relative ages of fossils
- Radiometric dating: based on radioactive decay of isotopes expressed by half-life, not affected by temperature/pressure
  - o But radioisotopes from surrounding environment can get trapped and disturb
  - o Radioactive 'parent' isotope decays to 'daughter' isotope at constant rate

Solving problems:

1. Calculate remaining parent isotope ( $1000 - 750 = 250$ )
2. Calculate number of half-lives that happened ( $1hl = 1000/2$ ,  $2hl = 500/2 = 250$ )
3. Half-lives \* isotope half-life ( $2 * 500,000 = 1,000,000$ )

# Chapter 25 The History Of Life On Earth Reading Guide Answers

**Sally Smith**



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