

ORIGIN OF LIFE

HISTORY OF LIFE

- Earth is 4.5 billion years old
- Oldest rock o 3.8 billion years old o Contains isotopes of carbon o Indicates metabolic activity
- Oldest fossils
 - 3.5 billion years old
 - Stromatolites
 - Banded domes of sedimentary rock
 - Resemble layered mats of cyanobacteria today
- Probably photosynthetic o Probably not first life forms
- First life forms were NOT photosynthetic

ONE HYPOTHESIS

CONDITIONS ON EARTH	SCENARIO
• Atmosphere had little O₂ • Intense o Lightning • Volcanic activity • Meteorite bombardment • UV radiation	1. Abiotic synthesis of organic monomers 2. Abiotic synthesis of polymers 3. Formation of protobionts 4. Origin of hereditary material

ABIOTIC SYNTHESIS OF ORGANIC MONOMERS

OPARIN & HALDANE 1920S	MILLER & UREY 1953
• Worked independently • Postulated • Conditions on primitive Earth favored abiotic synthesis of organic material - o Atmosphere ▪ Contained less O₂ ▪ Less oxidizing than today's ▪ More reducing than today's	• Tested Oparin & Haldane hypothesis • Created conditions on early Earth in lab • Atmosphere - H₂O, H₂, CH₄, NH₃ • Added spark • Created organic material • Other labs have created - o All 20 AA - o Some sugars & lipids - o Purine & pyrimidine bases - o ATP

Origin Of Life Ap Biology Lab Answers

Jianjun Gao



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