

ORIGIN OF LIFE

HISTORY OF LIFE

- Earth is 4.5 billion years old
- Oldest rock is 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

J Rink



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Report of the President of the Johns Hopkins University, Baltimore, Maryland Johns Hopkins University, 1877 **Global Perspectives on the Biology and Life History of the White Shark** Michael L. Domeier, 2012-02-03 Inspired by the International White Shark Symposium in 2010 Global Perspectives on the Biology and Life History of the White Shark incorporates the most important contemporary research findings into a single peer reviewed book This beautifully illustrated reference represents a historic change in the context of White Shark *Carcharodon carcharias* Invitation to Biology Helena Curtis, N. Sue Barnes, 1994-02-15 This clearly written accurate and well illustrated introduction to biology seamlessly integrates the theme of evolution while offering expanded up to date coverage of genetic engineering the immune response embryological development and ecological concerns *Annual Report of the President of the Johns Hopkins University, Baltimore, Maryland* Johns Hopkins University, 1874 Scientific and Technical Aerospace Reports, 1987 Lists citations with abstracts for aerospace related reports obtained from world wide sources and announces documents that have recently been entered into the NASA Scientific and Technical Information Database **AIAA Journal** American Institute of Aeronautics and Astronautics, 2002 **The Biology of the Laboratory Rabbit** Steven H. Weisbroth, Ronald E. Flatt, Alan L. Kraus, 2013-10-02 The Biology of the Laboratory Rabbit is a compendium of papers that discusses the use of the rabbit as an experimental substrate in the scientific process The collection describes normative biology research utilization and rabbit disease These papers emphasize naturally occurring diseases which affect the value of the rabbit as a research tool Some papers describe these effects and their impact for investigators engaged in laboratory experimental work on animal medicine Other papers tackle the value of certain rabbit diseases as models of considerable interest in comparative medicine Several papers discuss bacterial diseases viral diseases protozoal diseases arthropod parasites helminth parasites neoplastic diseases inherited diseases nutritional diseases metabolic traumatic mycotic and miscellaneous diseases of the rabbit One paper describes a number of diseases that man can acquire from domestic and laboratory rabbits These include tularemia which is endemic in wild rabbits and hares plague transmitted by fleas listeriosis rare in laboratory rabbit colonies salmonellosis from rabbit feces and *Pasteurella multocida* common in laboratory and domestic rabbits The paper notes that laboratory and domestic rabbits are not a major health hazard The compendium can benefit veterinarians the medically oriented investigator the biologist the medical and chemical researcher and others whose work involve laboratory animal care **Foundations of Space Biology and Medicine: Space medicine and biotechnology**, 1975 *Readers' Guide to Periodical Literature*, 1963 *Resources in Education*, 1996

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