

Pdf free Biology life on earth 10th edition Full PDF

good life on earth the history of life on earth traces the processes by which living and fossil organisms evolved from the earliest emergence of life to present day earth formed about 4.5 billion years ago abbreviated as ga for gigaannum and evidence suggests that life emerged prior to 3.7 ga the similarities among all known present day species indicate that they earth is about 4.5 billion years old scientists think that by 4.3 billion years ago earth may have developed conditions suitable to support life the oldest known fossils however are only 3.7 billion years old during that 600 million year window life may have emerged repeatedly only to be snuffed out by catastrophic collisions life on earth inhabits a shockingly diverse range of conditions from deep cold to caustic boiling pools but all appear to require liquid water scientists expect water to be essential to life on other worlds as well venus otherwise earth's twin in size and rocky composition orbits too close to the sun just inside the inner edge of the habitable zone brought to earth by outer space amino acids as well as some of the other key building blocks of life such as carbon and water may have been brought to early earth from outer space according to life evolution history earth the evidence is overwhelming that all life on earth has evolved from common ancestors in an unbroken chain since its origin darwin's principle of evolution is summarized by the following facts all life tends to increase more organisms are conceived born hatched germinated from seed the spectacular success of biochemistry and molecular biology in the 20th century suggests that laws of biology are derived from the interaction of atoms thermodynamic principles and life's chemistry which has persisted with faithful continuity since its origin some 3.7 billion to 3.5 billion years ago life evolution diversity in the 1950s the iconic miller urey experiment which zapped a mixture of water and simple chemicals with electric pulses to simulate the impact of lightning demonstrated that amino acids the galileo was due to skim past earth just 960 kilometres above the surface the tickling became an itch that sagan had to scratch he talked nasa into pointing the spacecraft life forms present on earth today have evolved from ancient common ancestors through the generation of hereditary variation and natural selection although some studies state that life may have begun as early as 4.1 billion years ago it can be traced to fossils dated to 3.5-3.7 billion years ago which is still only slightly younger

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