## **Star Chemistry Gives Life Time to Evolve**

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Star chemistry gives life time to evolve, according to arxiv.org 19 July 2012 and Science Shots 26 July 2012. Scientists at the School of Earth and Space Exploration, Arizona State University now claim it takes 1) the right temperature for a planet to have the liquid water considered essential for life to evolve, and 2) this is determined by how hot its star is, and 3) how far the planet is from the star, but 4) it also requires the right mix of elements in the star.

These experts state stars vary in temperature as they age, which means the zone of suitable temperature changes during a star's life. After carrying out a series of simulations of the life cycle of stars with various chemical compositions, they concluded that a star is more likely to have life-inhabited planets if it has an abundance of carbon, sodium, magnesium, and silicon and oxygen. Why? According to ScienceShots, "That's because the abundance of these elements make the star cooler and cause it to evolve more slowly, thereby giving planets in its habitable zone more time to develop life as we know it. The stellar abundance of oxygen, in particular, seems crucial in determining how long newly formed planets stay in the habitable zone around their host star, the researchers report. If our own sun had a lower abundance of oxygen, for example, Earth would have left the habitable zone a billion years ago, well before complex organisms evolved."

## arxiv

**Editorial Comment**: Notice the assumption – the right length of time can produce life if it has the right chemicals at the right temperature. Not the real world though folks. We all know from experience and observation that the more time you have, the more you get all naturally possible random chemical reactions, and the products fall apart just as quickly as they are made.

Although living cells work by complex chemical reactions, the chemistry of life is not random. The chemical reactions in living things are under the control of genetic information. Therefore, to create life you need to create information. Time and chemistry will not produce information. In fact, our observations are that random chemical reactions destroy the genetic information that already exists, and cannot produce new genetic information from nothing. Therefore, if a correctly warmed planet does not have life on it to start with, it will not develop any by itself. Life requires an intelligent Creator to invent genetic information and apply it to suitable chemicals.

Many people believe that given enough time anything can happen, but this is the equivalent of

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believing that time can work miracles, when the same theorists believe a Creator God can't. It makes far more sense to believe Genesis, which tells us the all-wise Creator made the earth, complete with liquid water, at the correct temperature from the beginning, filled it with life, and placed at the right distance from the sun needed to maintain the correct temperature for life.

Furthermore, life on earth will not die out because our planet has "left the habitable zone". Life on earth will end only at the time the Creator Christ has already declared that He will come to gather his people and take them to be with Him in a new Heaven and Earth. Make sure you are ready to meet him by accepting him as your Creator, Saviour and Lord. (Ref. abiogenesis, astronomy, astrobiology)

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