

COULD LIFE ARRIVE FROM THE UNIVERSE?

Summary

When life could appear and from where it arrived on Earth? Recent investigations bring nearer answers to some of such important questions as the age of the Universe and of our solar system, chemical composition of meteorites and comets, more detailed information of Earth history. Also the discovery of planets in other solar systems, recognition of molecular composition of living organisms, discovery of hyperthermophiles and fossils of living bacteria dated to millions years BP, as well as search of life on other planets can help in explanation of life origin. Old hypothesis of panspermia that life

come to Earth from comets and meteorites has been championed by J. J. Berzelius, H. von Helmholtz, Lord Kelvin, Sir F. Hoyle, F. Crick and others. Also time elapsed between the period of the Late Heavy Bombardment and the appearance of first bacterial fossils on the Earth seems to be too short to evolve by Nature complex protein structures and various controlled by them life processes. Therefore, panspermia hypothesis finds more and more supporters. There are also reported related hypotheses such as necropanspermia, lithopanspermia directed panspermia and inverted panspermia