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Scaling law of the biological evolution and the hypothesis of the self-consistent Galaxy origin of life

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Abstract

It is supposed that the sequence of the Earthâ \in TMs biospheric revolutions obeys the scaling law. An estimation of the duration of the prebiological chemical evolution as $(5\hat{a}\in$ "7) × 10^9 years is obtained by an extrapolation of the scaling law of the biospheric evolution. The expected scale of time of interstellar prebiological panspermia $(\hat{a}^1/40.2\hat{A})$ × 10^9 yr) is much shorter then the estimated duration of the prebiological chemical evolution. The hypothesis of the long prebiological chemical evolution implies that: (a) the prebiological evolution and the origin of life may be a self-consistent Galaxy process and not a process localized on single planets and (b) life has the same chemical base and the same chirality everywhere in the Galaxy.

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Keywords

Biological evolution; Prebiological chemical evolution; Scaling law; Panspermia

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