

## Special Issue

# Thermodynamic Inversion at the Origins of Life: A Comprehensive Approach

### Message from the Guest Editor

This Issue proposes to consider the processes that occur during the transition of prebiotic systems to life through a strong increase in the level of free energy in them. The topics considered include: - Thermodynamic transformations during the origin of life;

- Hydrothermal and related systems, which create energy conditions conducive to the thermodynamic inversion necessary for the emergence of life;

- Energetics of life and a need for the establishment of an out-of-equilibrium (bifurcate) state when life emerges;

- Models for the emergence of life, which are amenable to the establishment of an out-of-equilibrium state;

- The known and hypothesized mechanisms by which the energy from the environment converts into chemical energy that life utilizes.

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### Guest Editor

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### Deadline for manuscript submissions

closed (30 November 2023)



## Life

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### Message from the Editor-in-Chief

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### Editor-in-Chief

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