

Genesis - in the beginning: precursors of life, chemical models and early biological evolution

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Abstrak

Genesis – in the beginning deals with the origin and diversity of Life and early biological evolution and discusses the question of where (hot or cold sources) and when the beginning of Life took place. Among the sections are chapters dealing with prebiotic chemical processes and considering self-replication of polymers in mineral habitats. One chapter is dedicated to the photobiological regime on early Earth and the emergence of Life. This volume covers the role of symmetry, information and order (homochiral biomolecules) in the beginning of Life. The models of protocells and the genetic code with gene transfer are important topics in this volume. Three chapters discuss the panspermia hypothesis (to answer “are we from outer space?”). Other chapters cover the astrobiological aspects of life in the Universe in extraterrestrial planets of the solar system and deal with cometary hydrosphere (and its connection to earth). Conclude with the history and frontiers of Astrobiology.