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The Influence of Space Parameters like Solar Ultraviolet Radiation on the Survival of Microorganisms; Bacterial Paleontology; Paleobiological and Biogeochemical Vestiges of Early Terrestrial Biota: Baseline for Evaluation of Extraterrestrial Evidence; Formation of Ordered Structures of Charged Grains in Gas-Dusty Atmospheres of Planets and Comets during Lightning Discharge; Exobiology of Titan; The Role of Living and Nonliving Organic Matter in Volkonskoite Formation;

Astrobiotechnology: Alternative Concepts for Astrobiology Solar System Exploration

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Sommario/riassunto

Astrobiology is the multi-disciplinary field devoted to the investigation of the origin; physical, chemical and environmental limitations; and the distribution in space and time of life on Earth and in the Cosmos. Astrobiology seeks an answer to one of the most fundamental of all questions: - Is Life Restricted to Planet Earth or is Life a Cosmic Imperative? Understanding the characteristics, properties, habits and diversity of living organisms on Earth is crucial to determine where and how to search for evidence of life elsewhere.
