

Muriel Gargaud
Hervé Martin · Philippe Claeys
Editors

Lectures in Astrobiology

VOLUME II

With a Foreword
by Antonio Lazcano



Springer

Lectures In Astrobiology

**Muriel Gargaud, Hervé Martin, Philippe
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world biodiversity consists of an inestimable amount of living forms that at all levels from genes to biomes from individuals to populations from species to communities are in constant pursuit of the best strategies to react to the natural and anthropic environmental changes The arrangement of new and dynamic ecosystems balanced by the formation and the vanishing of species is the direct consequence of these changes This book contains comprehensive overviews and original studies focused on ecological and ecosystem functioning studies hazards and conservation management assessment of environmental variables affecting species diversity also considering species richness and distribution in order to identify the best management strategies to face and solve the conservation problems **Planets and Life** Woodruff T. Sullivan, III, John Baross, 2007-09-13 Astrobiology involves the study of the origin and history of life on Earth planets and moons where life may have arisen and the search for extraterrestrial life It combines the sciences of biology chemistry palaeontology geology planetary physics and astronomy This textbook brings together world experts in each of these disciplines to provide the most comprehensive coverage of the field currently available Topics cover the origin and evolution of life on Earth the geological physical and chemical conditions in which life might arise and the detection of extraterrestrial life on other planets and moons The book also covers the history of our ideas on extraterrestrial life and the origin of life as well as the ethical philosophical and educational issues raised by astrobiology Written to be accessible to students from diverse backgrounds this text will be welcomed by advanced undergraduates and graduates who are taking astrobiology courses

Extremophiles as Astrobiological Models Joseph Seckbach, Helga Stan-Lotter, 2021-01-13 The data in this book are new or updated and will serve also as Origin of Life and evolutionary studies Endospores of bacteria have a long history of use as model organisms in astrobiology including survival in extreme environments and interplanetary transfer of life Numerous other bacteria as well as archaea lichens fungi algae and tiny animals tardigrades or water bears are now being investigated for their tolerance to extreme conditions in simulated or real space environments Experimental results from exposure studies on the International Space Station and space probes for up to 15 years are presented and discussed Suggestions for extraterrestrial energy sources are also indicated Audience Researchers and graduate students in microbiology biochemistry molecular biology and astrobiology as well as anyone interested in the search for extraterrestrial life and its technical preparations

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