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Altri autori (Persone)	DionPatrice <1953-> NautiyalChandra Shekhar
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Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Principles of Extreme Soil Microbiology -- The Microbiological Promises of Extreme Soils -- Microbial Diversity, Life Strategies, and Adaptation to Life in Extreme Soils -- Extreme Views on Prokaryote Evolution -- Biodiversity: Extracting Lessons from Extreme Soils -- Natural Extreme Soils -- Halophilic and Halotolerant Micro-Organisms from Soils -- Atacama Desert Soil Microbiology -- Microbial Communities and Processes in Arctic Permafrost Environments -- Aerobic, Endospore-Forming Bacteria from Antarctic Geothermal Soils -- Peatland Microbiology -- Subsurface Geomicrobiology of the Iberian Pyritic Belt -- The Potential for Extant Life in the Soils of Mars -- Anthropogenic Extreme Soils -- Bacteriology of Extremely Cold Soils Exposed to Hydrocarbon Pollution -- Microbiology of Oil-Contaminated Desert Soils and Coastal Areas in the Arabian Gulf Region -- Microbial Communities in Fire-Affected Soils -- Endophytes and Rhizosphere Bacteria of Plants Growing in Heavy Metal-Containing Soils -- Interactions of Fungi and Radionuclides in Soil.
Sommario/riassunto	My auxiliaries are the dews and rains which water this dry soil, and what fertility is in the soil itself, which for the most part is lean and

effete. – Henry David Thoreau, Walden Pond The concerns that Thoreau had about his beans were nothing to those that would face a similarly conscientious gardener in the Atacama Desert or on the planet Mars, where dews are rare, or frozen, and rains are extremely rare – or absent altogether. Yet we live in a time when an appreciation of the differences and similarities among soils (or regolith: no organics detected on Mars, as yet!) can provide a perspective on life at its most fundamental level: that of microbiology. Microbes are the Earth's finest chemists, and most prodigious chemical engineers. Beyond pure chemistry, they know tricks with electrons that would make any Silicon Valley chip designer blush with pride. And yet their size and association with human food (good) and diseases (bad) has for more than a century obscured their essential place in making the Earth a habitable planet for humans. One of the most interesting facets of this book is that we are shown those chemists at work in one of their most important habitats. Soils comprise both a pervasive environment on our planet and one of the most important (even most fruitful!) of habitats with respect to human survival.
