1. Record Nr. UNINA9910574098403321 **Titolo** Polar microbiology [[electronic resource]]: life in a deep freeze // edited by Robert V. Miller and Lyle G. Whyte Pubbl/distr/stampa Washington, D.C., : ASM Press, c2012 **ISBN** 1-68367-094-9 1-55581-718-1 Descrizione fisica 1 online resource (333 p.) Altri autori (Persone) MillerRobert V <1945-> (Robert Verne) WhyteLyle G Disciplina 577.5/8 Soggetti Extreme environments - Microbiology Microbial ecology - Polar regions Microbiology - Research - Polar regions Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Description based upon print version of record. Note generali Nota di bibliografia Includes bibliographical references and index. ""Cover"": ""Copyright"": ""Contents"": ""Contributors"": ""Preface"": ""I Nota di contenuto Microbial Diversity in Polar Environments"; ""1. Bacterial Diversity in Polar Habitats"; ""Introduction""; ""Antarctica""; ""The Arctic"; ""Microbial Mats""; ""Sea Ice Microbial Communities""; ""Effects of Climate Change on Polar Regions""; ""Conclusions and Future Work""; ""References""; ""2. Archaea""; ""Introduction and Overview""; ""Antarctic Environments""; ""Arctic Environments""; ""Polar Comparisons of Archaeal Diversity""; ""Highlights of Recent Findings"" ""Archaea in Polar Environments and Climate Change"""Future Work Needed""; ""Summary""; ""References""; ""3. Bacteriophages at The Poles""; ""Life Choices""; ""Nutrient Availability""; ""Phages at The Poles""; ""Conclusions""; ""References""; ""4. Fungi in Polar Environments"; ""Introduction"; ""Fungi in Various Extremely Cold Environments""; ""Indigenous Groups of Fungi in Polar Environments"" ""Conclusions""; ""References""; ""II Adaptations and Physiology of Cold-Adapted Microorganisms in Polar Environments"; ""5. General Characteristics of Cold-Adapted Microorganisms"" ""Introduction""""Kinetic and Biochemical Challenges at Low

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