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Microbial Life in the Cold: A Focus on Extreme Aquatic Environments

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Deadline for manuscript submissions: closed (20 December 2022)

Message from the Guest Editors

physical environment shapes the microbial The communities by evolutionary adaptation and acclimation responses to long- and short-term variations. Raising temperatures and freezing-thawing phenomena are among main environmental stressors acting on the microbiota in a global change scenario. With this Special Issue of Water we intend to explore the diversity and survival strategies of cold-adapted microorganisms (bacteria, archaea, viruses, and eukaryotes), the ecological role played by the microbial communities in biogeochemical cycling (impacting community dynamics at seasonal and spatial scales), and the challenges for life encountered by microorganisms. Therefore, we are looking for experimental studies, reviews, and distributional surveys relating to any aspect of microbial diversity, including origin of life, ecology, astrobiology, molecular biology, physiology, and biotechnology, related to eukaryotes and prokaryotes in liquid cold matrices. Comparative studies on Arctic and Antarctic microbiology will be also welcome.[...]

For further reading, please follow the link to the Special Issue Website at:

https://www.mdpi.com/journal/water/special_issues/polar_microbiology









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Message from the Editor-in-Chief

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