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

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Message from the Guest Editors

physical environment shapes the microbial communities by evolutionary adaptation and acclimation responses to long- and short-term variations. Raising temperatures and freezing-thawing phenomena 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 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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