



## Microbial Diversity in Cold Environments and Their Sustainable Use

Guest Editor:

### Message from the Guest Editor

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Over 80% of the Earth biosphere is continuously exposed to temperatures below 5 °C, including in the Polar Regions, deep sea, and the Alps. The changing microbial diversity affects material production in the environments. Therefore, it is important to understand the microbial diversity in the environments. In recent years, microorganisms inhabiting these environments have been attracting attention as microbial resources because they have characteristics such as cold-active enzymes and ice-binding protein (antifreeze proteins), material conversion abilities under low temperatures. This special issue will comprise a selection of papers presenting original and mini-review on the diversity of microorganisms inhabiting the cold environments, and the sustainable use of these microbes as microbial resources.





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