



Extremophilic Microorganisms and Their Communities

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Message from the Guest Editors

It is generally appreciated that microorganisms thriving in extreme environments with physical-chemical conditions hostile to common life are taxonomically, genetically, and metabolically diverse and exhibit a plethora of exiting, often counterintuitive, mechanisms of adaptation of a fundamental and applied significance. Environmental parameters where these microorganisms thrive include extreme (high or low) temperatures, pH values, elevated salinities, high hydrostatic pressure, low water activity, high levels of ionizing radiation, and high concentrations of heavy metals or organic solvents. Although extremophilic microbiology is quickly expanding, many aspects still need to be explored and understood, and new microorganisms inhabiting extreme environments still await their isolation and characterization.

The aim of this Special Issue is to inform a broader readership on recent studies on extremophilic microorganisms and their communities examined through a range of approaches, from in silico to wet lab investigations and cultivation. As the Guest Editors, we are looking forward to receiving your valuable contributions in the form of either original research or review papers.





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Message from the Editor-in-Chief

"Microorganism" merges the idea of the very small with the idea of the evolving reproducing organism is a unifying principle for the discipline of microbiology. Our journal recognizes the broadly diverse yet connected nature of microorganisms and provides an advanced publishing forum for original articles from scientists involved in high-quality basic and applied research on any prokaryotic or eukaryotic microorganism, and for research on the ecology, genomics and evolution of microbial communities as well as that exploring cultured microorganisms in the laboratory.

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