

Special Issue

New Insights into the Diversity and Characterization of Extremophiles

Message from the Guest Editors

In recent decades, extremophilic microorganisms have gained increasing attention in biotechnological applications and bioremediation processes due to their unique metabolic capabilities, the production of stable enzymes under extremely hostile conditions, and unique biomaterials and secondary metabolites. The diversity in extreme environments is usually low, but the few species that colonize them have become highly adapted as a result of their enormous variety of strategies. The biological characteristics of extremophiles and the adaptation mechanisms developed for their molecular machinery may have great economic potential in many industrial processes, including environmental applications in food, agriculture and pharmaceuticals, among others. In this Special Issue of *Microorganisms*, we welcome contributions (original articles as well as reviews) related to microorganism diversity in extremophilic environments, microbial community dynamics, metagenomics, physiological characterization of microorganisms, stress response, and molecular biology. Prof. Dr. María-José Bonete

Guest Editors

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Deadline for manuscript submissions

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About the Journal

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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