

## Special Issue

# Bioprocesses and Biotechnology Related to Extremophiles—Molecular Aspects

### Message from the Guest Editors

Over the last decades, the number of isolated and sequenced extremophiles has drastically increased. Since extremophiles thrive in harsh environments, the study of their metabolic pathways and enzymes has gained interest owing to their ability to catalyze reactions under severe industrial conditions. Currently, extremozymes from thermophilic, psychrophilic alkaliphilic, acidophilic, and halophilic microorganisms are employed in several biotechnological processes. These cell biocatalysts or their enzymes are applied in different fields such as wastewater treatment, resource recovery, bioremediation, and for the production of biofuels and biochemicals. To date, metabolic engineering and synthetic biology technologies for high-efficiency bioprocess applications are also introduced. The aim of this Special Issue is to collect original research articles, review articles, and short communications dealing with the comprehensive application of extremophiles and extremozymes in biotechnological bioprocesses.

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### Guest Editors

Dr. Martina Aulitto

Department of Biology, Università degli Studi di Napoli Federico II,  
Napoli, Italy

Dr. Paola Imbimbo

Department of Chemical Sciences, University of Naples Federico II, Via  
Cinthia 21, 80126 Naples, Italy

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### Deadline for manuscript submissions

closed (20 September 2024)



## International Journal of Molecular Sciences

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Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[ijms@mdpi.com](mailto:ijms@mdpi.com)

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Prof. Dr. José L. Quiles  
Department of Physiology, Institute of Nutrition and Food Technology  
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Avda. Conocimiento s/n, 18100 Armilla, Granada, Spain

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