

## Special Issue

# Extremophiles Breakthrough: Hot Topics and Current Issues in Their Isolation, Identification and Biotechnological Applications—2nd Edition

### Message from the Guest Editors

Over the last few decades, the study of extremophiles has led to many discoveries that are useful in understanding how life evolved in particular ecological niches, as many enzymes derived from extremophilic microorganisms have had significant impacts on our lifestyle. The search for new extremophiles is crucial not only from an ecological point of view but also from a biotechnological point of view. Extremophiles are considered to be factories of high-value molecules that are able to retain their biological activities under harsh conditions, often employed in industrial processes. Moreover, recent studies have focused on the exploitation of these microorganisms for the isolation of enzymes to be used for sustainable bio-energy and bio-fuel production. As the of this Special Issue, we are pleased to invite you to submit your cutting-edge research articles and reviews related to extremophiles.

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### Guest Editors

Dr. Martina Aulitto  
Dr. Giovanni Gallo  
Dr. Emanuela Maresca

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### Deadline for manuscript submissions

30 October 2026



## Life

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