



## Thermophilic and Hyperthermophilic Microbes and Enzymes

Guest Editors:

**Prof. Dr. Giuseppe Manco**

Institute of Biochemistry and Cell  
Biology, National Research  
Council, Via Pietro Castellino 111,  
80131 Naples, Italy

**Dr. Yannick J. Bomble**

Biosciences Center, National  
Renewable Energy Laboratory,  
15013 Denver West Parkway,  
Golden, CO 80401, USA

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### Message from the Guest Editors

Thermophilic and hyperthermophilic microbes represent a fascinating class of microorganisms, not only because of their resilience to thrive at elevated temperatures and in harsh environments, but also because of the enzymes that they harbor. These microorganisms fall mainly in the bacteria and archaea domains, and exist in many habitats including hot springs, hydrothermal vents, or volcanic ash sediments, among others. These habitats all exhibit thermophilic or hyperthermophilic temperatures, but can also be acidic, alkaline, or contain high levels of salts. In order to thrive in such harsh environments, these microorganisms have evolved robust enzymes that are able to function at peak activity in these harsh conditions.

This Special Issue encourages original research articles, perspectives, and reviews on the topic of thermophilic and hyperthermophilic microbes and enzymes. Topics of interest include, but are not limited to, the following:

- Bioprospecting
- Enzyme characterization
- Microbial phenotypes
- Novel metabolic pathways
- Novel metabolic enzymes
- Bioremediation
- Enzyme evolution and engineering
- Proteomics approach
- Microbial ecology
- Microbial consortia





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## Editor-in-Chief

### Prof. Dr. Maurizio Battino

Department of  
Odontostomatologic and  
Specialized Clinical Sciences,  
Sez-Biochimica, Faculty of  
Medicine, Università Politecnica  
delle Marche, Via Ranieri 65,  
60100 Ancona, Italy

## Message from the Editor-in-Chief

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*International Journal of Molecular  
Sciences* Editorial Office  
MDPI, St. Alban-Anlage 66  
4052 Basel, Switzerland

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