Special Issue

Thermophilic and Hyperthermophilic Microbes and Enzymes

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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Deadline for manuscript submissions

closed (31 August 2020)



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Message from the Editor-in-Chief

The International Journal of Molecular Sciences (*IJMS*, ISSN 1422-0067) is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, molecular biophysics, molecular medicine, and all aspects of molecular research in chemistry. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

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