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Thermophilic and Hyperthermophilic Microbes and Enzymes

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Deadline for manuscript submissions:
closed (31 August 2020)

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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Message from the Editor-in-Chief

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