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Environment Microorganisms and Their Enzymes with Biotechnological Application

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Message from the Guest Editor

Enzymes have been considered to be catalysts playing an important role in biochemical and metabolic reactions. Due to the efficient securement of massive microorganisms as sources of enzymes and the easy manipulation by genetic tools employed in microbial factories, the microbial enzymes have been applied to diverse biotechnological industries including white (industrial) as well as red (medical) and green (agricultural) biotechnologies.
This Special Issue focuses especially, but not only, on the following sub-topics:

- Isolation and characterization of novel microorganisms with potential biotechnological features based on genomic analysis
- Isolation and functional characterization of novel or useful microbial enzymes for the potential biotechnological application
- Production of biomaterials generated from the fermentation of wild-type microorganisms and/or recombinants harboring their interested enzymes
- Bioremediation and biodegradation of plastics, pollutants, and contaminants
- Enzyme profiling involved in the microbial responses to environmental changes (microbial community together with enzyme profiling)

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Message from the Editor-in-Chief

"Microorganism" merges the idea of the very small with the idea of the evolving reproducing organism is a unifying principle for the discipline of microbiology. Our journal recognizes the broadly diverse yet connected nature of microorganisms and provides an advanced publishing forum for original articles from scientists involved in high-quality basic and applied research on any prokaryotic or eukaryotic microorganism, and for research on the ecology, genomics and evolution of microbial communities as well as that exploring cultured microorganisms in the laboratory.

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