Special Issue

Feature Papers in Biotechnology of Microbial Enzymes

Message from the Guest Editor

Microbial enzymes play an integral and important role in a number of different biotechnological applications. Microbial enzymes and, especially, biocatalysis have developed enormously in the last decade and now offer solutions for the sustainable production of chiral and highly functionalized molecules. Recent advances in oxidative enzymes have furthermore boosted research towards biorefineries and biofuels. This enormous progress is based on new approaches for the screening and identification of novel microbial enzymes, various methods to efficiently (over)produce enzymes in an economic way, various techniques to tailor enzymes with respect to desired or novel properties, as well as a wealth of structural data on enzymes. The successful use of enzymes in industry and biocatalysis requires a transdisciplinary expertise, and thus provides a dynamic environment, which will fuel new applications and future innovations. This dynamic interplay between different scientific areas will also be reflected in this Special Issue on the structure, function, and discovery of microbial enzymes, both in traditional fields and in novel industrial applications.

Guest Editor

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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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