



Advanced Biotechnology of Microbial Enzymes

Guest Editors:

Prof. Dr. Dietmar Haltrich

Department of Food Sciences
and Technology, BOKU University
of Natural Resources and Life
Sciences, Muthgasse 18, A-1190
Wien, Austria

Dr. Daniel Kracher

Institute of Molecular
Biotechnology, Graz University of
Technology, 8010 Graz, Austria

Deadline for manuscript
submissions:

closed (31 July 2021)

Message from the Guest Editors

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.





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Editor-in-Chief

Dr. Nico Jehmlich

Department of Molecular
Systems Biology, UFZ-Helmholtz
Centre for Environmental
Research, 04318 Leipzig,
Germany

Message from the Editor-in-Chief

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Microorganisms Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

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