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Microbial Biocatalysis and Biodegradation

Guest Editor:

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Deadline for manuscript submissions:
closed (30 June 2021)

Message from the Guest Editor

Microbial biocatalysis and biodegradation reflect facets of the global biogeochemical carbon cycle; each can have useful/valuable practical applications in microbial biotechnology, for instance, in chemoenzymatic synthesis and bioremediation, respectively. The goal of this Special Issues is to provide some current insights in these areas of microbiology, from the molecular level of individual enzymes to the level of whole ecosystems.

Case studies to be covered could include the role of microbial biocatalysis in the production of bulk chemicals (e.g., acrylamide), fine chemicals (e.g., flavours and fragrances), pharmaceuticals (e.g., esomeprazole and simvastatin), and drug metabolites for pharmacokinetic studies, in addition to the relative merits of biostimulation and bioaugmentation as different strategies to promote bioremediation and/or waste recycling.

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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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