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Nitrilases and Nitrile Hydratases

Guest Editors:

Prof. Dr. Ludmila Martínková

Institute of Microbiology of the Czech Academy of Sciences, Prague, Czech Republic

Dr. Margit Winkler

Institute of Molecular Biotechnology, Graz University of Technology, Petersgasse 14, 8010 Graz. Austria

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Message from the Guest Editors

The biotechnological impact of nitrilases and nitrile hydratases has become widely acknowledged since their discovery a few decades ago. The past 10 years or so have witnessed a tremendous increase in the number of the biochemically characterized enzymes of these types, but also in the number of sequences coding for their putative homologs. The long-lasting trend in the investigation of these enzymes is their improvement towards higher activities, selectivities, and stabilities, as well as exploring new resources of enzymes. Additionally, new biocatalytic uses are being constantly identified. All these approaches are necessary for a more intensive exploitation of the enzymes in the production of fine chemicals for the chemical, pharmaceutical, and food industries. This Special Issue will collect contributions on enhancing the biocatalytic potential of nitrilases and nitrile hydratases through, e.g., protein engineering, genome mining, metagenomic libraries screening, and new substrate and/or product identification.













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Editor-in-Chief

Prof. Dr. Thomas J. Schmidt Institute of Pharmaceutical Biology and Phytochemistry, University of Münster, Corrensstrasse 48, D-48149 Münster, Germany

Message from the Editor-in-Chief

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