

## Special Issue

# Design of Biocatalysts and Their Applications for Asymmetric Transformations, C-C Bond Formation and Biodegradation

### Message from the Guest Editor

Great progress is observed in enzyme applications for the synthesis of non-natural compounds and the construction of artificial enzymes. These achievements are based on fundamental knowledge of structure-function relationships in enzymes and a deep understanding of active site architecture. Despite high throughput methods for the design of enzymes and enzymatic cascades, the development of a stable effective biocatalyst is still a time-consuming task, that requires knowledge and skills in various fields of biochemistry, molecular biology, and organic chemistry. With this Special Issue, we aim to collect original research articles, review articles, and short communications dealing with the development of biocatalysts (both discovery of new enzymes and the design of enzymes for the process). Fundamental studies on the molecular basis of the stability of enzymes in harsh industrial environments, including water-organic solvent media are welcome.

### Guest Editor

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### Deadline for manuscript submissions

closed (30 April 2024)



## International Journal of Molecular Sciences

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### Message from the Editor-in-Chief

The International Journal of Molecular Sciences (*IJMS*, ISSN 1422-0067) is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, molecular biophysics, molecular medicine, and all aspects of molecular research in chemistry. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

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### Editor-in-Chief

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