## **Special Issue**

## Biocatalysis and Bioactive Molecules: Future and Development

## Message from the Guest Editor

Biocatalysis has increasingly been used for synthesising compounds to make manufacturing processes greener and more sustainable. Bioactive molecules produced biocatalytically can improve the quality of life, having beneficial impacts on the health of the human body in the prevention and treatment of various chronic diseases, and are environmentally friendly. However, improving existing techniques and developing new methodologies are necessary to increase their synthesis. Furthermore, studies of strategies to reduce economic impacts have received attention, such as the search for new enzymes, new supports for enzyme immobilisation, biocatalysts reuse, reactor configuration, process optimisation and use of alternative substrates, mainly agro-industrial waste, and these must be evaluated. This research topic encourages article publication related to enzyme production and immobilisation and enzymatic synthesis, mainly through valuing renewable resources, with an interest in the cosmetic, pharmaceutical, nutraceutical and food industries. Herewith, the development and trends of biocatalysis for active biomolecules producing industrial interest are highlighted.

#### **Guest Editor**

Dr. Lindomar Alberto Lerin

Department of Chemistry, Pharmaceutical and Agricultural Sciences, University of Ferrara, Via Luigi Borsari, 46, 44121 Ferrara, Italy

### Deadline for manuscript submissions

20 April 2025



# International Journal of Molecular Sciences

an Open Access Journal by MDPI

Impact Factor 4.9 CiteScore 8.1 Indexed in PubMed



mdpi.com/si/155318

International Journal of Molecular Sciences MDPI, Grosspeteranlage 5 4052 Basel, Switzerland Tel: +41 61 683 77 34 ijms@mdpi.com

mdpi.com/journal/ ijms





# International Journal of Molecular Sciences

an Open Access Journal by MDPI

Impact Factor 4.9 CiteScore 8.1 Indexed in PubMed





## 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.

## Editor-in-Chief

#### Prof. Dr. Maurizio Battino

Department of Odontostomatologic and Specialized Clinical Sciences, Sez-Biochimica, Faculty of Medicine, Università Politecnica delle Marche, Via Ranieri 65, 60100 Ancona, Italy

### **Author Benefits**

## **Open Access:**

free for readers, with article processing charges (APC) paid by authors or their institutions.

## **High Visibility:**

indexed within Scopus, SCIE (Web of Science), PubMed, PMC, MEDLINE, Embase, CAPlus / SciFinder, and other databases.

#### Journal Rank:

JCR - Q1 (Biochemistry and Molecular Biology) / CiteScore - Q1 (Inorganic Chemistry)

