

Special Issue

Thermophilic and Hyperthermophilic Microbes and Enzymes 3.0

Message from the Guest Editor

Thermophilic and hyperthermophilic microbes represent a fascinating class of microorganisms, not only because of their resilience to thrive at elevated temperatures and in harsh environments, but also because of the enzymes that they harbor. In order to thrive in such harsh environments, these microorganisms have evolved robust enzymes that are able to function at peak activity in these harsh conditions. These microorganisms represent a rich source of enzymes with an increased stability, which are purposely modified by protein engineering and can excel in harsh industrial conditions, making them especially appealing for biotechnological applications. Sometimes, they display promiscuous activities that represent a peculiar basis for evolution. Bioprospecting for enzymes in these microbes has gained popularity in the last two decades, as they also represent ideal templates and strategies for re-engineering essential but less stable enzymes, catalyzing reactions that do not exist in thermophiles.

This Special Issue seeks original research articles, perspectives, and reviews on the topic of thermophilic and hyperthermophilic microbes and enzymes.

Guest Editor

Prof. Dr. Chengying Jiang

Institute of Microbiology, Chinese Academy of Sciences, Beijing, China

Deadline for manuscript submissions

closed (31 July 2023)



International Journal of Molecular Sciences

an Open Access Journal
by MDPI

Impact Factor 4.9
CiteScore 9.0
Indexed in PubMed



mdpi.com/si/158176

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

[mdpi.com/journal/
ijms](https://mdpi.com/journal/ijms)





International Journal of Molecular Sciences

an Open Access Journal
by MDPI

Impact Factor 4.9
CiteScore 9.0
Indexed in PubMed



[mdpi.com/journal/
ijms](https://mdpi.com/journal/ijms)



About the Journal

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 (Organic Chemistry)