

Special Issue

The Biological Activities of Curcumin and Its Analogues

Message from the Guest Editor

Our research mainly focused on an analogue of curcumin, namely CMC 2.24. This substance demonstrates all of the properties of its parent, but extends much beyond that, not only in suppressing inflammation but in inverting macrophage activity from the M1 to the M2 state, thereby reversing their more usual activity of tissue debridement to tissue reconstruction. There is evidence that even replacement of eroded tissue may occur. A singular feature of CMC2.24 is its enhanced solubility in the bloodstream vs. curcumin itself, which is extremely insoluble and virtually useless as an oral medication. The publication of this Special Issue offers authors a chance to engage with a wide audience and gain high visibility within the biological activities of curcumin and its analogues. Original research and review articles which provide insights are welcome.

Guest Editor

Prof. Dr. Francis Johnson

Department of Chemistry, Stony Brook University, Stony Brook, NY
11790-3400, USA

Deadline for manuscript submissions

31 December 2025



International Journal of Molecular Sciences

an Open Access Journal
by MDPI

Impact Factor 4.9
CiteScore 9.0
Indexed in PubMed



mdpi.com/si/245140

*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)