

Special Issue

Bioactive Compounds in Microbial Communities and Non-Target Organisms

Message from the Guest Editors

According to the WHO, resistance to commercial antibiotics is one of the great challenges facing humanity in this century. Therefore, the search for new antimicrobial products and strategies that minimize the impacts of antibiotics on the environment is of great interest. This Special Issue focuses on molecules and compounds with antimicrobial activity on microbial communities with clinical, veterinary, or agri-food applications and/or their ability to generate resistance. Also of interest is the study of the environmental impact of these compounds on water and soil communities, as well as on other non-target bioindicator organisms. We welcome submissions of original research and review articles about the following topics:

- Molecules and compounds (or combinations of both) with antimicrobial activity in microbial communities of clinical, veterinary, or agri-food interest.
- Ecotoxicity studies of molecules, compounds, or combinations of both with antimicrobial bioactivity in microbial communities of water and soil.
- Resistance studies in microbial communities of new molecules, products, or combinations of both with antimicrobial properties.

Guest Editors

Dr. María Rosa Pino-Otín

Faculty of Health Sciences, Universidad San Jorge, 50830 Villanueva de Gállego, Zaragoza, Spain

Dr. Elisa Langa

Faculty of Health Sciences, Universidad San Jorge, Villanueva de Gállego, 50830 Zaragoza, Spain

Deadline for manuscript submissions

closed (20 June 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/186404

*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)* 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, and molecular biophysics. *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. José L. Quiles
Department of Physiology, Institute of Nutrition and Food Technology
"Jose Mataix", Biomedical Research Center, University of Granada,
Avda. Conocimiento s/n, 18100 Armilla, Granada, Spain

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, CAPus / SciFinder, and other databases.

Journal Rank:

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