

## Special Issue

# Current Advances and Perspectives in Microbial Genetics and Genomics

### Message from the Guest Editors

This Special Issue welcomes submissions dealing with microbial genetics, genomics, and metagenomics, focusing specifically on bacteria, archaea, and bacteriophages. We encourage research articles that explore diverse aspects, including, but not limited to, gene regulation, microbe–host interactions, antibiotic resistance mechanisms aiding the development of new antimicrobial strategies or the discovery of novel antimicrobial compounds or biomolecules of biotechnological interest from diverse microbial sources, metabolic pathways of environmental and commensal bacteria (including xenobiotic degradation), and the fascinating evolutionary trajectories of microbial genomes. Whether investigating genetic diversity within bacterial populations or elucidating the role of phages in shaping microbial communities, we welcome contributions that improve our understanding of the intricate molecular mechanisms that drive microbial life.

### Guest Editors

Dr. Marcello Tagliavia

IRIB-CNR (Institute for Biomedical Research and Innovation, Italian National Research Council), Palermo, Italy

Dr. Lucila Saavedra

CERELA-CONICET (Reference Center for Lactobacilli-National Scientific and Technical Research Council of Argentina), Chacabuco 145, Tucumán, Argentina

### Deadline for manuscript submissions

20 September 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/200893](https://mdpi.com/si/200893)

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