

Special Issue

Emerging Strategy in Bacterial Antibiotic Resistance

Message from the Guest Editor

Antibiotic resistance is a growing global health threat, driven by antibiotic misuse, genetic mutations, horizontal gene transfer, and environmental stressors. As bacteria evolve to evade conventional treatments, innovative solutions are urgently needed. This Special Issue focuses on cutting-edge advances in understanding and combating bacterial antibiotic resistance, spanning molecular mechanisms to clinical and ecological strategies. Topics may include novel drug discovery, resistance surveillance, and alternative therapies such as phage therapy, CRISPR-based antimicrobials, and adjuvants that restore antibiotic efficacy. Studies using genomic tools, bioinformatics, or synthetic biology to predict, prevent, or reverse resistance are especially welcome. By integrating fundamental research with translational insights, this Issue seeks to inspire multidisciplinary approaches to one of modern medicine's most pressing challenges.

Guest Editor

Dr. Lili Li

Department of Food Science and Engineering, Jinan University, Guangzhou, China

Deadline for manuscript submissions

28 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/246184

*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)