

Special Issue

Novel Antibacterial Drugs: Discovery, Synthesis and Design

Message from the Guest Editor

Random mutations cause genetic variations in microorganisms, so the emergence of antimicrobial resistance is a natural evolutionary process; however, external selective pressures, such as exposure to antimicrobial agents in healthcare, agriculture, and the environment, can accelerate the dissemination of these genes. Antimicrobial resistance threatens, at alarming levels, the limited treatment options available and portends one of the greatest global public health crises. This situation becomes especially urgent when one notices the lack of new antibiotics under development. In view of this situation, the search for new antibacterial compounds becomes urgent, and this Special Issue will accept original research articles and reviews that highlight the discovery, synthesis, and design of novel antibacterial agents, essential initiatives through which to limit the dissemination of multidrug-resistant microorganisms and ensure the adequate treatment of exposed populations, preventing associated human losses.

Guest Editor

Prof. Dr. Mariana S. Castro

1. Laboratory of Toxinology, Physiological Sciences Department, Biological Sciences Institute, University of Brasilia, Brasilia 70910-900, DF, Brazil
2. Laboratory of Protein Chemistry and Biochemistry, Cellular Biology Department, Biological Sciences Institute, University of Brasilia, Brasilia 70910-900, DF, Brazil

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/164162

*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)