

Special Issue

Natural Antimicrobial Peptides: Hope for New Antibiotic Lead Molecules

Message from the Guest Editor

The alarming spread of antibiotic resistance has become a major problem in the treatment of bacterial infections. In this context, the development of new antimicrobial agents targeting hitherto unexploited bacterial targets and machineries has become a global priority. With their activities against a large number of clinically important pathogenic bacteria including several multidrug resistant strains and their wide range of different modes of action, antimicrobials peptides are amongst the most promising lead molecules. As their modes of action generally differ from those exploited by antibiotics currently in use, antimicrobial peptides are increasingly considered promising alternatives to antibiotics in the pharmaceutical, veterinary, and medical sectors. This Special Issue entitled 'Natural Antimicrobial Peptides: Hope for New Antibiotic Lead Molecules' will discuss the recent advances in the discovery, study, and development of antimicrobial peptides. Topics related to both original and reviewed articles are welcome.

Guest Editor

Prof. Dr. Éric Biron

Faculty of Pharmacy, Université Laval, Québec, QC G1V 0A6, Canada

Deadline for manuscript submissions

closed (20 March 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/189559

*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)