



## Peptide Antimicrobial Agents 2.0

Guest Editors:

**Prof. Dr. Gábor Tóth**

Department of Medical  
Chemistry, Faculty of Medicine,  
University of Szeged, H-6720  
Szeged, Hungary

**Dr. Györgyi Váradi**

Department of Medical  
Chemistry, Faculty of Medicine,  
University of Szeged, H-6720  
Szeged, Hungary

Deadline for manuscript  
submissions:

**closed (15 December 2021)**

### Message from the Guest Editors

Dear Colleagues,

The ever-increasing episodes of antibiotic resistance in bacteria and other microorganisms pose a serious threat to human health. Antimicrobial peptides (AMPs) are ribosomally synthesized natural antibiotics produced by nearly all organisms, from bacteria to plants and animals. AMPs are the first line of innate defense present in most living organisms, from bacteria to humans, against invading pathogens. Certain AMPs show an exceptionally broad spectrum of activity against Gram-negative and Gram-positive bacteria and fungi as well as viruses and parasites. Therefore, AMPs or their derivatives may represent potentially new classes of antimicrobial drugs. In this context, antimicrobial peptides (AMPs) have emerged as promising alternatives owing to their unique structural and functional characteristics. They have various modes of action; this diversity in the activity of the AMPs lead to the very-slow or negligible development of resistance against them in contrast to conventional antibiotics, which generally have a fixed intracellular target. This has led to significant advances in the area of AMP research in the last few decades for potential drugs of the future.





an Open Access Journal by MDPI

## 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

## 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.

## 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 (Inorganic Chemistry)

## Contact Us

---

*International Journal of Molecular  
Sciences* Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
www.mdpi.com

mdpi.com/journal/ijms  
ijms@mdpi.com  
X@IJMS\_MDPI