



Creation of New Antimicrobial Peptides 3.0

Guest Editor:

Prof. Dr. Oxana V. Galzitskaya

1. Institute of Protein Research,
Russian Academy of Sciences,
142290 Pushchino, Russia

2. Institute of Theoretical and
Experimental Biophysics, Russian
Academy of Sciences, 142290
Pushchino, Russia

Deadline for manuscript
submissions:

closed (28 February 2024)

Message from the Guest Editor

Dear Colleagues,

World Health Organization (WHO) classifies polyresistant bacteria as a serious health hazard. Available antibiotics are gradually becoming ineffective as a result of the resistance of bacterial cells, so it is necessary to find new antibacterial strategies to combat pathogenic organisms.

Antimicrobial peptides are diverse in terms of structure and mode of action, display broad-spectrum antimicrobial activity, and thus show promise for engineering pathogen resistance and development of novel pharmaceuticals. Novel antimicrobial peptides are under development. The creation of a novel technology and new antibiotics based on it will be a breakthrough in this field of research. The most decisive advantage of antibacterial peptides is the following: (1) the possibility to construct peptides of directional effect and (2) biological compatibility due to their natural origin.

In this Special Issue, the authors present new antimicrobial peptides and a new strategy for combating pathogenic microbes.





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 & Molecular Biology*) / CiteScore - Q1 (*Inorganic Chemistry*)

Contact Us

*International Journal of Molecular
Sciences* Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

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

mdpi.com/journal/ijms
ijms@mdpi.com
X@IJMS_MDPI