Special Issue New Antibacterial Agents

Message from the Guest Editor

The increase of antibiotic resistance in bacteria highlights the urgent need for improved antibacterial agents. There are interesting new agents with antibacterial potential but with modes of action that are not fully known, or well-known modified drugs with patterns of toxicity, effectiveness, and/or other related properties that need to be investigated. These new ways/agents are mainly targeted into bacterial virulence factors, cell division machinery, biofilm formation, or cell membrane disruption. It seems to be crucial to determine their antibacterial mechanisms and effectiveness in comparison to cytotoxicity against eukaryotic cells as a potential new agent for clinical application in the future.

Nanoparticles, naturally obtained antibacterials, synthetic or semi-synthetic agents which are chemically altered natural products, metal complexes, peptides, or bacteriophages and their lytic proteins are considered as new antibacterial agents.

This Special Issue is focused on the effectiveness, mode of action, and cytotoxic activity of new antibacterial agents.

Guest Editor

Dr. Michał Arabski

Division of Medical Biology, Jan Kochanowski University, 25-406 Kielce, Poland

Deadline for manuscript submissions

closed (31 May 2022)



International Journal of Molecular Sciences

an Open Access Journal by MDPI

Impact Factor 4.9 CiteScore 9.0 Indexed in PubMed



mdpi.com/si/85161

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





International Journal of Molecular Sciences

an Open Access Journal by MDPI

Impact Factor 4.9 CiteScore 9.0 Indexed in PubMed





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)

