



Recent Advances in Nanomedicines against Bacterial Infections

Guest Editors:

Dr. Stephanie Andrade

Dr. Nuno Guimarães

Dr. Maria João Ramalho

Dr. Joana A. Loureiro

Deadline for manuscript
submissions:

31 July 2024

Message from the Guest Editors

Dear Colleagues,

The world is currently experiencing a serious health crisis due to the high morbidity and mortality rates linked to infectious diseases, in particular, caused by bacteria. The increase in antibiotic resistance is still a growing challenge, which hinders the treatment of bacterial infections. Therefore, alternative therapies/strategies are needed due to the lack of effective treatments. In the last years, nanotechnology has emerged as a new strategy to combat bacterial infections and antibiotic-resistant bacteria. Using nanoparticles (NPs) to prevent, treat, or diagnose bacterial infections is one of the most promising approaches since NPs can act directly on bacteria and/or as delivery systems of compounds, improving their therapeutic efficacy.

Thus, this Special Issue focuses on the recent developments in NPs and their current applications in bacterial infections, including their prevention, diagnosis, and treatment. Researchers are welcome to submit their latest findings as original papers and reviews.





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