

Special Issue

Nanoparticles: New Antimicrobial Agents

Message from the Guest Editor

Both Gram-negative, Gram-positive pathogens and fungi are evolving as clinically relevant superbugs, due the incessant emergence of resistance to the most part of available antibiotics. Polymer and copolymer nanoparticles are regarded as a promising strategy to achieve multifunctional materials, hybrid nanoparticles or nanocomposites possessing remarkable antimicrobial activities. Also, multifunctional nanoparticles, including dendrimers, polymers and copolymers offer the possibility to be further functionalized by linking target molecules or antibodies to improve their therapeutic efficacy, direct their effects and reduce their possible toxicity.

This Special Issue aims to provide a platform for molecular mechanistic research on new antimicrobial agents with a special focus on cationic antimicrobial materials and structural strategies. Furthermore, studies of formulations of the developed agents, characterized by antibacterial activity and low cytotoxicity toward mammalian cells, are welcome.

Guest Editor

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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.

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