

## 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.

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### Guest Editor

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## International Journal of Molecular Sciences

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### Message from the Editor-in-Chief

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