

Special Issue

Design of Novel Nanoparticles for Enhanced Antibacterial Activity

Message from the Guest Editors

Nanoparticles used for drug delivery include numerous structures capable of transporting active ingredients through different administration routes, offering advantages such as drug protection, an easier access of the drug across biological membranes. In recent years, the rise of antibiotic resistance has underscored the urgent need for novel therapeutic strategies, however, resistance mechanisms can cause microorganisms to spread without responding to treatment. Nanocarriers can protect drugs from degradation and facilitate their passage through the cell membrane of microorganisms, consequently improve drug efficacy and circumvent microbial resistance mechanisms. We invite researchers to submit high-quality, original manuscripts on the design, synthesis, and application of nanoparticles with enhanced antibacterial properties. Contributions may include studies on the optimization of different types of nanocarriers including solid lipid nanoparticles, polymeric nanoparticles, nanocrystals, etc., with all geared towards maximizing the antibacterial efficacy while minimizing adverse effects.

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