

Special Issue

Recent Advances in Antimicrobial Nano-Drug Delivery Systems

Message from the Guest Editor

The widespread utilization of antimicrobial compounds throughout recent years has played a role in the spread of multi-drug-resistant microorganisms. According to a recent World Health Organization report, grappling with antibacterial (ATB) drug resistance and the creation of durable ATBs poses a substantial challenge. As pathogens swiftly adapt and evolve through various mechanisms; conventional ATBs frequently lead to only temporarily effective or ineffective treatments.

Consequently, there is a growing interest in novel therapeutic approaches, such as those based on nano-drug delivery systems (NDDS) and nanoparticles with intrinsic antimicrobial activity, due to their potential to enhance drug bioavailability, improve targeting, and overcome the resistance mechanisms. These can include nanoemulsions, liposomes, nanostructured lipid carriers, solid lipid nanoparticles, polymeric nanoparticles, metal nanoparticles, and others.

Acknowledging the importance of this subject matter, this Special Issue endeavors to curate the recent strides in nanomedicine specifically tailored to the maladies caused by microorganisms.

Guest Editor

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Editor-in-Chief

Prof. Dr. Amélia Pilar Rauter

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