



Functional Polymers as Innovative Tools in the Delivery of Antimicrobial Agents

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Message from the Guest Editor

Dear Colleagues,

Many infectious diseases are induced by omnipresent microorganisms. Antimicrobial resistance, adverse effects, and the high cost of antimicrobials are crucial health challenges worldwide. One of the common efforts in addressing this issue lies in improving existing antimicrobial delivery systems. In this regard, biocompatible polymeric particles, entrapping these bioactive molecules, are capable of being released over a desired period of time, thereby decreasing the frequency of their administration. At the same time, these systems are able to protect antimicrobial drugs from degradation, enhancing their bioavailability. There are many forms of drug delivery systems based on physical interactions between the polymeric carrier and antimicrobial molecules, namely, nanoparticles and microparticles, capsules and fibres, tablets, hydrogels, etc. This Special Issue welcomes any topics regarding recent progress in the synthesis and characterization of innovative functional polymers suitable as carriers of antimicrobials, to be employed in the pharmaceutical and biomedical fields.

Dr. Umile Gianfranco Spizzirri
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Message from the Editor-in-Chief

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