

Special Issue

Recent Trends in Nano-Based Drug Delivery Systems

Message from the Guest Editors

Nano-based drug delivery systems have emerged as innovative and smart scaffolds that are able to improve the clinical outcomes of traditional drugs. The majority of the benefits of these devices are directly related to their small size and high surface area and reactivity, which enable them to be tailor-made for the desired therapeutic purpose. They can be designed differently to simultaneously perform multiple functions, such as active targeting, stimuli responsivity and imaging. These fine-tuned devices may enhance the specific delivery of a drug at the target site, improving the therapeutic efficacy and reducing systemic toxicity. In this context, the final aim of this Special Issue is to provide an overview of the recent studies reporting innovative design strategies and results regarding the in vitro, in vivo and clinical efficacy of these systems in topical and transdermal therapy, cancer target therapy, gene therapy, immunotherapy and theranostics. We look forward to receiving your contributions.

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