Special Issue

Cancer Targeted Gene and Drug Delivery Nanosystems

Message from the Guest Editor

Nanotechnology-based systems have shown that they can greatly contribute to the development of novel and successful antitumor strategies, offering higher therapeutic efficacy and fewer side effects than conventional approaches. In fact, targeted nanosystems, have the ability to both passively (in the case of solid tumors) and actively accumulate in tumors, due to the enhanced permeation and retention (EPR) effect and the incorporation of target moieties in nanocarriers, respectively. Thus, targeted nanosystems may allow the specific delivery of therapeutic agents in target cells, avoiding their release in the non-target ones. Moreover, nanosystems facilitate the development of innovative multitarget therapeutic strategies in a single nanoplatform, allowing the specific and simultaneous delivery of different therapeutic agents in target cells, increasing antitumor efficiency and reducing secondary effects. This Special Issue aims to highlight the recent developments in cancer-targeted genes and drug delivery nanosystems. Original papers or reviews on the design, development, characterization, and application of drug and/or gene delivery nanosystems are welcome.

Guest Editor

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Deadline for manuscript submissions

closed (30 April 2024)

Pharmaceutics

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