Special Issue

Nanotheranostics and Cancer: Where Are We Now?

Message from the Guest Editors

Nanotheranostics promise to provide innovative and more effective approaches for early diagnosis, imaging and therapy. Indeed, the design of nanoparticles to serve therapeutic and diagnostic purposes has dramatically increased, especially for the treatment of cancer. Note that an effective treatment requires improved diagnostic and therapeutic techniques with minimal side-effects. This dual approach enables to understand the location of tumor tissue, the biodistribution of nanoparticles, the progress and efficacy of the treatment, being highly useful for personalized medicine-based therapeutic interventions. In order to expand the theranostic approaches, different active strategies could be used to modulate the surface of nanotheranostic particles, including surface markers, proteins, drugs or genes, also taking advantage of the microenvironment characteristics using stimuli responsive triggers. The development of new nanotheranostic approaches represents an important step forward in the field of drug delivery systems. This Special Issue has the aim of highlighting current progress in the use of the nanotheranostics in cancer treatment.

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