Special Issue

Delivery of Molecules Using Nanoscale Systems for Cancer Treatment and/or Diagnosis

Message from the Guest Editors

Nanoscale delivery systems designed for cancer treatment and diagnosis are a rapidly developing science. The delivery of anticancer agent combinations allows the targeting of different pathways, genes, or cell cycle checkpoints so that resistance to single agents can be overcome. Multiple studies in this field have shown the potential of simultaneous release of different agents to the tumor site. Not only that, but also the possibility to control the delivered ratios of these agents, improving synergistic antitumor effects. Meanwhile, the delivery of an anticancer agent and a medical imaging agent allows simultaneous cancer therapy and imaging, significantly improving cancer management. These approaches are often further combined to strategies such as active targeting or triggered delivery, culminating in highly multifunctional nanoscale systems. This Special Issue will highlight current advances and challenges in the broad theme of nanosystem development for the delivery of molecules to treat and/or diagnose tumors. We encourage the submission of focused review manuscripts as well as original research concerning in vitro, in vivo, and translational studies.

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