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Self-Assembling Smart Nanoparticles for Drug Delivery

Guest Editor:

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Message from the Guest Editor

Dear Colleagues,

Supramolecular self-assembled structures based on lipids, proteins, and nucleic acids are involved in a variety of cell functions, such as the transport of molecules and interactions of cells with extracellular compartments. With the attempt to mimic these natural systems, a variety of self-assembling biomaterials, such as micelles, liposomes and polymeric vesicles have been developed for the diagnosis and treatment of several diseases, first of all for cancer therapy. The size/shape of these systems, as well as their physic-chemical properties, can be finely tuned to optimize their performances as drug delivery vehicles. Moreover, to improve the pharmacokinetic profile of the loaded drug, nanoparticles that able to modulate the release of the payload in response to exogenous stimuli, or decorated with ligands of specific membrane receptors, have been proposed.

This Special Issue is devoted to the most recent developments in the synthesis and characterization of self-assembled nanoparticles that are able to program the drug release in response to external signals for cancer treatment.

Dr. Manuela Curcio
Guest Editor

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Message from the Editor-in-Chief

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