

Special Issue

Multifunctional Nanoparticles for Anticancer Drug Delivery Systems

Message from the Guest Editor

The field of nanotechnology has led to the development of many innovative strategies for the effective detection and treatment of cancer, overcoming limitations associated with conventional cancer diagnosis and therapy. Compared to conventional chemotherapy, targeted drug delivery systems are advantageous in many ways as they minimize drug resistance and improve therapeutic value for cancer patients. Moreover, multifunctional nanoparticle-based platforms of anticancer drug delivery have paved the way for innovative therapies that are more efficacious, less invasive, and less toxic. For this Special Issue, we discuss the various types of materials used to synthesize multifunctional nanoparticles for cancer imaging and therapy and summarize recent and ongoing research in the fabrication of these designer NPs against cancer. We highlight the three main components that make up a multifunctional NP in cancer drug delivery and imaging: the targeting ligand, the anticancer therapeutic agent, and the imaging modality.

Guest Editor

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