

Special Issue

Novel Nanoparticle-Based Treatment and Imaging Modalities

Message from the Guest Editors

Over the last twenty years, nanomaterials have been widely used in cancer research. Numerous reports suggest that nanoparticles have the potential to improve conventional therapeutic (e.g., chemotherapy) and imaging (e.g., MRI) modalities for cancer detection and treatment. Nanomaterials allow further development of novel experimental treatment and imaging strategies, including photothermal therapy, magnetic hyperthermia, and photoacoustic imaging. In addition, though to a lesser extent, nanoparticle-based imaging and treatment modalities have frequently been explored for other nonmalignant diseases, such as pulmonary fibrosis, AIDS, muscular dystrophy, etc. The results of this research suggest that some fundamental principles of cancer nanomedicine could potentially be used for the development of novel nanoparticle-based strategies for treatment and imaging of other disorders. In this Special Issue, we invite authors to report their recently developed nanoparticle-based modalities for diagnosis and/or treatment of various disease states. We also welcome reviewer articles with expert opinions and perspectives in the nanomedicine field.

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