

Special Issue

Advances in Nanomedicines for Disease Diagnosis and Therapeutics

Message from the Guest Editors

Nanomedicines have become competent candidates for the diagnosis and therapy of different diseases (e.g., tumors, neurodegenerative diseases, bacterial infections, cardiovascular diseases) both at bench and bedside. The state-of-the-art diagnostic modalities include fluorescence imaging, computed tomography (CT), magnetic resonance imaging (MRI), ultrasound imaging (US), single photon emission computed tomography (SPECT), and positron emission tomography (PET), while the therapeutics are composed of chemo-, photo-, chemodynamic-, gene-, and immunotherapy and their hybrids. Generally, nanomedicines are composed of a biocompatible matrix and diagnostic/therapeutic moieties, in which the former offers long circulation time and targeting of disease tissues, and the latter yields diagnosis and treatment functions. Moreover, smartness has been customized for nanomedicines, enabling them to selectively respond to specific diseases by physical/chemical/biochemical interreaction with the pathological microenvironment, leading to highly sensitive and efficient diagnostic and therapeutic outcomes.

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