



Applications of Nanomaterials: Theranostic Imaging in Health and Disease

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Message from the Guest Editors

Cancer, bacterial infections and degenerative diseases are the leading diseases in the world causing various health problems and human deaths each year. Recently, multifunctional nanomaterials have opened up new opportunities for personalized diagnosis and treatment approaches, which mainly involve: i) early detection of disease via specific biomarkers; ii) molecular imaging of tumors, both primary and metastasis; iii) specific delivery of therapeutic agents; iv) photothermal and photodynamic ablation of tumors and bacterial infections; v) overcoming tumor hypoxia; vi) real-time monitoring of treatment in progression. In addition, nanotechnology and nanomaterials stand as potential candidates to conquer degenerative diseases such as Arthritis, Parkinson's disease, Alzheimer's disease, Osteoporosis, etc., via delivery of drug/biomolecules to the target site with greater biocompatibility.

The main aim of this Special Issue is to cover the recent promising research advancements and novel trends in the field of multifunctional nanomaterials for cancer therapeutics and diagnostics. We are greatly looking forward to receiving the submission of high-quality and original research works.





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