

Special Issue

Nanotechnology for Precision Delivery of Therapeutic and Imaging Agents – A Theranostic Approach

Message from the Guest Editor

Theranostic nanomedicine is an emerging field that combines the unique capabilities of nanotechnology with personalized medicine. The term “theranostics” was coined by combining diagnostic and therapeutic capabilities into a single agent. Over the last decade, researchers have investigated nanoparticle-based imaging and therapy separately, and only recently has the focus changed to NP-based theranostics. Even with the recent success of nanoparticles for the treatment of COVID-19, nanoparticle-based imaging and therapy are each struggling to advance into clinical trials. At the same time, nanoparticle-based theranostics are still in their early stages of development. This Special Issue will provide insights into new drug delivery or imaging nanoparticles that could evolve into nanotheranostic platforms. Original research and reviews in the issue will focus on preclinical applications of delivery of therapeutic payloads and/or diagnostic probes in the context of cancer, cardiovascular and pulmonary diseases, and regenerative medicine.

Guest Editor

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