

Special Issue

The Nanoparticle Revolution: Cross Disciplinary Approaches to Disease Study and Treatment Design

Message from the Guest Editors

Nanoparticles are gaining increasing attention in the medical science field. Their reduced dimensions, as well as the high degree of freedom in nanoparticle design, synthesis and functionalization, has allowed their use in multiple investigations on disease. Suitably engineered nanoparticles can be used for targeted drug delivery, as therapeutic agents, for cell tracing, and in theranostic applications.

To date, nanoparticle-centered projects are focused mainly on dissecting and treating cancer; however, the wide application range of functional nanoparticles makes them appealing in other pathological contexts. In particular, cardiovascular disease, a major cause of death worldwide, represents a good substrate for the development of innovative methods to tackle this disease. In addition, nanoparticles serve as crucial elements for the bio-fabrication of non-animal models. We invite contributors to submit original research papers or reviews that focus on the recent advances in the field of disease study and treatment design based on nanoparticles, with a particular focus on the cardiovascular system.

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