



Impact of Nanomaterials in Biological Systems and Applications in Nanomedicine Field

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Message from the Guest Editors

This Special Issue focuses on the interaction between nanoparticles, characterized by different physico-chemical properties, and biological systems, both in vitro and in vivo. The effects of nanomaterials range from oxidative stress activation to immune response inducing alterations on morphology and the mechanic behaviour of living cells. Studies dealing with these interactions are of particular importance towards the development of new strategies for diseases treatment, especially cancer. In this scenario, nanomedicine is a new interdisciplinary branch of science, leading to the development of novel tools for therapy and diagnosis, these activities promote unexpected new results in research groups engaged in the development of novel nanomaterials, taking into account the nanotoxicity of nanovectors. The publication of original articles will contribute to the scientific progress in the area of “customized” nanomedicine concerning immune response and morphological alterations induced by NPs. The careful analysis of experimental evidences can put the basis for the further uses of such new nano-tools in clinical praxis.





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Message from the Editor-in-Chief

Nanoscience and nanotechnology are exciting fields of research and development, with wide applications to electronic, optical, and magnetic devices, biology, medicine, energy, and defense. At the heart of these fields are the synthesis, characterization, modeling, and applications of new materials with lower nanometer-scale dimensions, which we call “nanomaterials”. These materials can exhibit unusual mesoscopic properties and include nanoparticles, coatings and thin films, metal-organic frameworks, membranes, nano-alloys, quantum dots, self-assemblies, 2D materials such as graphene, and nanotubes. Our journal, *Nanomaterials*, has the goal of publishing the highest quality papers on all aspects of nanomaterial science to an interdisciplinary scientific audience. All of our articles are published with rigorous refereeing and open access.

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