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The Study of the Effects of Nanoparticles on Human Cells

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Message from the Guest Editors

Nanotechnology is a branch of science concerned with the design, fabrication, and application of nanoparticles (NPs) and nanomaterials. Introduced by Feynman in 1959, the fields of nanoscience and nanotechnology have been subjected to growing interest from scientists in almost all research areas. They have not only been integrated into chemistry, engineering, agriculture, biology, and materials science, but have also been used to produce nanostructured medical devices and nanotherapeutics. As a result of this interest, NPs began to be commercialised in the early 2000s and exposed to popular opinion, facing both praise and criticism from the public. Indeed, despite the extent of documented research, there is still a gap in knowledge regarding the risk to human health consequent to exposure to NPs.

In this Special Issue of *Nanomaterials*, we welcome original research articles and reviews regarding nanoparticle applications and their effects on human cells. Particularly, articles should focus on the harmful effects of (a) inorganic-based NPs, (b) carbon-based NPs, (c) organic NPs, including lipid, polymer, and hybrids, (d) nanomaterials, and (e) engineered NPs on human cells.



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Special Issue



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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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