



Nano-Bio Interactions: Nanomedicine and Nanotoxicology

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Message from the Guest Editors

The 21st century has truly become the age of nanotechnology. Nanomaterials, design strategies, and processing have already impacted significantly in areas of materials science and electronics. However, the ability to manipulate material functions and interactions on a scale of tens of nanometers, that of biological subcellular organelles, may yet prove to impact most significantly on human health and the environment. Design of nanometer-scale contrast, drug and nutrient delivery agents, as well as nanostructured materials for improved biocompatible interfaces, have opened up a whole new realm of nanomedicine. Equally, however, the ever increasing, to date largely unregulated, proliferation of nanoscale materials into the consumer environment has raised concerns over the potential detrimental impacts of uncontrolled exposure on human health and the environment. This Special Issue aims to gather the state of play understanding of the fundamentals of Nano-Bio interactions, how they potentially impact human health and the environment, and how research has progressed our understanding of how they can be exploited for the betterment of healthcare.





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Message from the Editor-in-Chief

Addressing the environmental and public health challenges requires engagement and collaboration among clinicians and public health researchers. Discovery and advances in this research field play a critical role in providing a scientific basis for decision-making toward control and prevention of human diseases, especially the illnesses that are induced from environmental exposure to health hazards. *IJERPH* provides a forum for discussion of discoveries and knowledge in these multidisciplinary fields. Please consider publishing your research in this high quality, peer-reviewed, open access journal.

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