Special Issue

Cytotoxicity and Genotoxicity Assessment in Nanomaterials

Message from the Guest Editors

Dear colleagues, This Special Issue intends to cover recent advances in the “Cytotoxicity and Genotoxicity Assessment of Nanomaterials” and related topics. We kindly invite authors to contribute with original research work, communications or comprehensive review articles on the most recent progress in the in silico, in vitro and in vivo strategies to assess cytotoxic and genotoxic effects of NMs, among other relevant biological effects. Potential topics include but are not limited to:

- Toxicity of natural, anthropogenic, and engineered nanomaterials (NMs);
- Cytotoxicity and genotoxicity assessment;
- Nano–bio interactions and dynamic behavior of NMs in biological systems;
- Correlation of NMs’ physicochemical properties and toxicity;
- Other biological effects of NMs, e.g., immunotoxicity or epigenetic effects;
- Conventional and high throughput approaches to the toxicity assessment of NMs;
- In silico analyses;
- Innovative in vitro experimental models in nanotoxicology;
- In vivo integrative studies on NMs;
- Biomonitoring and early biological effects of NMs;
- Adverse outcome pathways regarding NMs.

Guest Editors

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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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