Special Issue

Genotoxicity of Nanomaterials

Message from the Guest Editor

The genotoxic effect of nanomaterials can affect not only our genome but also our epigenome. To date, some nanomaterials seem to induce an altered expression of genes involved in DNA methylation mechanisms, leading to global DNA methylation changes in cells in vitro and in vivo.

We are interested in original research as well as review articles that explore all aspects of the genotoxic and epigenetic effects of various nanomaterials used in biology and nanomedicine and dispersed in the environment. Potential topics include, but are not limited to, the following:

- Cellular and molecular mechanisms of genotoxic and epigenetic responses to nanomaterials;
- Genotoxic and/or epigenetic responses of humans, animals, and plants to nanoparticles and nanomaterials from the environment;
- Genotoxic and/or epigenetic responses to nanoparticles and nanomaterials from applications in nanomedicine;
- Genotoxic and/or epigenetic responses of cells and organisms to plastic nanoparticles from the environment and plastic nanomaterials from industrial productions.

Guest Editor

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closed (30 June 2021)

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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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