Special Issue

The Genetic Changes Induced by Engineered Manufactured Nanomaterials (EMNs)

Message from the Guest Editor

The possibility that engineered manufactured nanomaterials (ENMs) can be harmful to the genetic materials of living individuals has been raised by several experiments, but it is, however, still controversial. In fact, there is also evidence that nanoparticles are not genotoxic and do not interfere with the genetic materials of organisms. It is of extreme importance to establish which nanomaterials have the potential to exert harmful effects on DNA in any type of living organisms, from simple prokaryotes to complex eukaryotes, starting from model organisms. The aims and scopes of this Special Issue are to (1) highlight the research applications that find out which ENMs are genotoxic and which are the more susceptible organisms or cell lines, and (2) to pinpoint reliable methods to establish the genotoxicity of ENMs.

Guest Editor

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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. We are proud of our increasing impact factor and ability to provide rapid decisions to authors.

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