Special Issue

Nanoparticles in Vivo and in Vitro Studies: A Collection of Parallel Approaches

Message from the Guest Editor

In this sense, the in vivo findings based on biokinetic behaviour of nanoparticles and on toxicological results should set out the frame for the design of predictive cell tests: Starting with the selection of most appropriate and representative test cells, meaningful cellular doses of nanoparticles appear most important, along with a fine-tuned experimental setting meant to unravel and understand the sophisticated response of cells upon nanoparticle treatment. This Special Issue of *Nanomaterials* is therefore devoted to original contributions in which in vitro work is reasoned and accompanied by in vivo studies with the aim to maximize the degree of similarity of both approaches. Well-motivated studies aiming at the risk estimation for animals and humans are welcome and acceptance will not depend on the degree of success, as long as contributions are in accord with 3R principles.

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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