



Recent Research on Nanostructured Biomedicine: Clinical Potential and Safety

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Message from the Guest Editor

Dear Colleagues,

The present Special Issue aims to collect original studies reporting the development and the biological efficacy of nanoparticles of different origin and structure for the treatment and/or diagnosis of different pathologies. The proposed nanosystems can be inorganic, organic or composite materials, properly engineered for the optimization of diagnosis, drug delivery, photothermal/photodynamic therapy, gene and cell therapy, tissue engineering, etc. In vitro or in vivo assays, or alternative approaches on developing organisms will be taken into account as suitable tools for the biological validation of the nanosystems, such as for the evaluation of their toxicological impact. A multidisciplinary approach, using standard and innovative experimental approaches will be encouraged to determine the efficiency and the safety of the proposed nanodevices.





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Editor-in-Chief

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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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