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Microscopy for Nanomedicine Research

Guest Editor:

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Message from the Guest Editor

Nanomedicine promises to selectively deliver drugs at target sites, increasing their effectivity while minimizing undesired side effects. However, very few nanomedicines have been approved for patient use.

Different advanced microscopy techniques can guide in the path to find effective nanomedicines. From the robust characterization of nanomaterials (structure, morphology, size, roughness, charge, ligands/particle, functional ligands/particle, atomic composition, etc.) to the nanomaterials' interaction with biological fluids and how they finally reach the target cell and organelle, microscopy can give information in each of these steps.

Moreover, functional microscopy transcends pure structural information unveiling physical, chemical, and optical properties. Thus, microscopy no longer gives just a "photography" of the nanomaterial in time and space, but multidimensional information valuable for a robust nanomaterial characterization and to design more efficient nanomedicines.

The Special Issue of *Nanomaterials* will cover the afore mentioned advances in different advanced microscopy techniques to be applied in nanomedicine.

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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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