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Stem Cells and Nanotechnology

Guest Editor:

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Deadline for manuscript submissions:
closed (27 December 2020)

Message from the Guest Editor

Stem cells and nanotechnology represent the tools of regenerative medicine, having the potential to provide new therapeutic availability and efficacy over conventional medicine. Indeed, the advent of nanotechnology and the discovery of the complex networks and stimuli that regulate cell fate processes have resulted in rapid advances in the healthcare scenario. Nanotechnology allows for the manipulation of highly advanced surfaces/scaffolds for optimal regulation of cellular behaviour; indeed, the role of nanoscale topography in scaffold design has gained much importance in regenerative medicine.

This Special Issue will publish research papers covering the most recent advances from the fields of nanomedicine, regenerative medicine, and bio-nanomaterials. Techniques such as electrospinning, soft lithography, microfluidics, carbon nanotubes, and nanostructured hydrogel are relevant for this Special Issue. Stem cells and nanotechnology topics include, but are not limited to, the following three categories: Tracking or labelling; Delivery; Scaffold/platforms.

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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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