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Nanomaterials for Regenerative Medicine

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Deadline for manuscript submissions:
closed (20 April 2024)

Message from the Guest Editor

Regenerative medicine offers tremendous potential in addressing the limitations of traditional treatments by promoting the regeneration and repair of damaged tissues and organs. Nanomaterials, with their unique properties and precise control over physical and chemical characteristics, have emerged as promising tools in this field.

This Special Issue seeks to showcase cutting-edge research, innovative approaches, and novel nanomaterial-based strategies that can revolutionize regenerative medicine. Potential topics of interest for submission include, but are not limited to, the following:

- Design and synthesis of nanomaterials for regenerative medicine;
- Characterization techniques and evaluation of nanomaterials for biomedical applications;
- Nanomaterial-based drug delivery systems for regenerative therapies;
- Nanomaterials for tissue engineering and organ regeneration;
- Nanotechnology-enabled approaches for stem cell therapies;
- Biofunctionalization of nanomaterials for enhanced biocompatibility and therapeutic efficacy;
- Safety, toxicity, and regulatory aspects of nanomaterials in regenerative medicine.

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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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