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Nanomaterials and Nanotechnology for Regenerative Medicine

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Message from the Guest Editor

Nanosized biomaterials exhibit many interesting features, such as a high surface area and mechanophysical tunability, which possibly mimics the natural extracellular matrix. Thus, nano-biomaterials with diverse functionality can be engineered in various types of architectures, such as nanoparticles, nanofiber, 2D film, porous 3D scaffolds, hydrogels, and their composites from the latest nanotechnology. Nanomaterials and nanotechnology are extremely helpful in accelerating drug/biomolecule delivery ability and myriad cellular response, including proliferation, migration, and differentiation for the repair and regeneration of specific tissues, such as bone, cartilage, nerve, muscle, etc. with great biocompatibility. Thus, we invite research, review, or communications papers with a broad range of nanomaterials and nanotechnology for regenerative medicine.



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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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