

Special Issue

Biomaterials and Delivery Systems for Regenerative Medicine

Message from the Guest Editors

Dear colleagues, Biomaterials used in regenerative medicine should be biocompatible. They should mimic the natural structure of the extracellular matrix and represent a physiological microenvironment for cellular functions. They should induce tissue regeneration and have adequate biodegradability properties, as well as the ability to deliver bioactive substances if they are used as carriers and delivery systems. Prior to potential clinical applications, biomaterials have to be thoroughly tested in preclinical studies using various in vitro cell models and in vivo animal models. This Special Issue welcomes original research or review articles that bring newly developed biomaterials, delivery systems, and models for regenerative medicine and pharmaceutical purposes. Topics include, but are not limited to: biomaterial design and testing, biocompatibility testing in vitro/in vivo, 2D and 3D cell cultures, in vitro cell models for testing drugs for regenerative medicine applications, personalized in vitro cell models, biomaterials as delivery systems, 3D printing, wound healing, and pharmaceuticals in regenerative medicine.

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