

Special Issue

Advances in Hydrogel Scaffolding of Stem Cells

Message from the Guest Editor

For this Special Issue entitled “Advances in Hydrogel Scaffolding of Stem Cells”, we aim to curate novel advances in the rational development of hydrogel scaffolds to address several longstanding challenges in tissue regeneration. We cordially invite novel reports and topics encompassing (but not limited to) the following areas:

- (Bio)chemical synthesis of hydrogel formulations with novel chemistry and rheology for cell scaffolding
- Design of injectable, shear-thinning hydro-/micro-/nanogels for stem cell delivery
- Advanced biofabrication techniques for in vitro modeling of degenerative diseases/microenvironments using stem cells, embryonic cells, or induced-pluripotent (iPS) cells
- 3D and 4D bioprinting of cell-laden hydrogels and bioinks for in vitro investigations and as prefabricated bioscaffold constructs for preclinical testing
- Cell-laden hydrogels for tissue repair with controlled biodegradation, immune modulation, and cell migration
- Hydrogel-assisted 3D organoid formation for drug testing and disease modeling

Guest Editor

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Deadline for manuscript submissions

closed (15 May 2022)



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