

## Special Issue

# In Vitro Cell Models in Regenerative Medicine

### Message from the Guest Editors

Due to the constant requirement for the reduction in animal use in research, the need for development of adequate alternative testing systems is rapidly arising. The most challenging step in the creation of an ideal in vitro system is mimicking the tissue environment in an appropriate way. Three-dimensional cell models are slowly overcoming traditional two-dimensional cultures, while organ-on-chip systems are introducing a real revolution in in vitro testing. This Special Issue encourages authors to submit their original research or review articles that bring new methods, solutions, and models for regenerative medicine and pharmaceutical purposes. Topics include but are not limited to biocompatibility testing in vitro, stem cells, 2D and 3D cell cultures, in vitro cell models for soft and hard tissue regeneration, in vitro cell models for testing drugs and medical devices for application in regenerative medicine, personalized in vitro cell models, matrices and scaffolds for 3D cell models, biomaterials, 3D printing, bioreactors, and pharmaceuticals in regenerative medicine.

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### Deadline for manuscript submissions

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### Editor-in-Chief

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