



In Vitro Models of Tissue and Organ Regeneration

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Deadline for manuscript
submissions:

closed (31 December 2022)

Message from the Guest Editors

We welcome experimental research approaches investigating the mechanisms involved and the laboratory methods used to establish and optimize in vitro models for tissue and organ repair and regeneration, with a focus on the role of (mesenchymal stromal) stem cells, (pre-)conditioned media and extracellular vesicles in regenerative medicine, which may result in greater success in clinical applications.

Therefore, this Special Issue welcomes original research and review papers addressing:

1. In vitro models to investigate regenerative mechanisms during acute and chronic injury;
2. In vitro models to investigate repair, fibrosis and scar formation;
3. In vitro preconditioning regimens to enhance the regenerative potential of cells;
4. Co-culture systems of supportive cells (e.g., mesenchymal stromal/stem cells) with injured cells;
5. Characterization of extracellular vesicles and exosomes and their effects on cell proliferation and differentiation;
6. Organoid cultures;
7. RNA-seq-based transcriptional profiling of in vitro models;
8. Proteomics based translational profiling of in vitro models;
9. Investigations of the epigenetic regulation such as specific miRNA and ncRNA in these processes.





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Editor-in-Chief

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Message from the Editor-in-Chief

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