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Biological Tissue Regeneration Using Medical Materials

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Message from the Guest Editors

Biological tissue regeneration using medical materials such as collagen, gel, ceramics, polymers, and metals is drawing attention. Medical materials are appropriately designed to be minimally invasive and endogenously non-toxic, and their application is expected to promote tissue regeneration. In vitro evaluation using medical materials is important for tissue regeneration, in vivo evaluation using animal models is essential to ensure the safety of medical materials for living organisms before clinical trials. Original articles on new medical materials and in vivo/in vitro evaluation methods for regenerated tissues are welcome for this Special Issue. The specific topics of interest are as follows:

- In vivo evaluation of the effects of medical materials in animal models and clinical trials, including tissue regeneration and medical materials.
- The interaction of medical materials with cells such as stem cells, fibroblasts, osteoblasts, etc.
- In vitro evaluation of differentiation and proliferation on the surfaces of medical materials.
- The functional evaluation of organs and vital tissues organized on/at the surface of medical materials.













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Message from the Editor-in-Chief

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