



Micro-Scale Approaches in Regenerative Medicine and Tissue Engineering 2023

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Message from the Guest Editors

The field of tissue engineering and regenerative medicine (TERM) has dramatically advanced in the last 20 years, providing the potential for regenerating almost every tissue and organ of the human body. TERM aims at the design of functional three-dimensional constructs able to properly guide cell behavior for tissue/organ regeneration or modeling.

TERM has taken the advantage of an interdisciplinary approach, involving aspects of cell biology, biomaterials science, surface functionalization and characterization, and cell–material interactions often integrated into microfabricated systems to accurately reproduce the complexity of in vivo microenvironments, including ECM organization and other tissue features (e.g., electrical stimuli, mechanical stress). The microscale design of cell culture environments has the potential to allow controllable and reproducible cell organization following tissue-specific cues. The topics to be covered in this issue include advanced microtechnologies applied to the TERM field.





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Message from the Editor-in-Chief

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