CALL FOR PAPERS
Special Issue on Tissue Engineering and Regenerative Medicine Applications (TERM)

Tissue engineering and regenerative medicine (TERM) remain among the most promising approaches to transform healthcare for all. Though there has been great investment in advancing technologies in these areas, implementation in clinical practice remains challenging and the broad potential benefits have yet to be realized. Nevertheless, advancements in these areas are continuously evident in a broad range of potential clinical applications.

This Special Issue of the ASME Journal of Medical Devices is intended to be a collection of original research that highlights the design, development, and implementation of novel technologies, systems, and methods for TERM applications. Manuscripts submitted for this Special Issue should be focused on technologies designed to investigate, evaluate, and advance TERM. All avenues of experimental research from proof-of-concept demonstration to exhaustive assessment of new devices are encouraged. The incorporation of numerical and/or computational analysis is also welcomed, though a stand-alone computational or numerical study is beyond the scope of this Special Issue.

Topic Areas
- Bioreactors for 3D cell culture and stem cell differentiation
- Experimental flow systems and microfluidic devices for TERM applications
- Novel experimental mechanical testing systems and protocols for TERM applications
- Engineering 3D organoids and/or vascularized tissues
- Novel 3D bioprinting technologies and 3D-printed designs for tissue engineering and regeneration
- Devices/engineering protocols for standardizing TERM
- Engineering of cell-based constructs and their applications for drug screening, diagnosis, and therapies

Publication Target Dates
- Paper submission deadline: March 22, 2022
- Initial review completed: April 15, 2022
- Special Issue publication date: September 2022

Submission Instructions
Papers should be submitted electronically to the journal at journaltool.asme.org. If you already have an account, log in as author and select Submit Paper at the bottom of the page. If you do not have an account, select Submissions and follow the steps. In either case, at the Paper Submittal page, select the ASME Journal of Medical Devices and then select the Special Issue Tissue Engineering and Regenerative Medicine Applications (TERM).

Papers received after the deadline or papers not selected for inclusion in the Special Issue may be accepted for publication in a regular issue.

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