



## Novel Fiber-Based Scaffolds for Tissue Engineering and Regenerative Medicine

Guest Editors:

**Dr. Mohamadmahdi Samandari**

Department of Biomedical Engineering, University of Connecticut Health Center L7073, Farmington, CT 06030, USA

**Dr. Mohsen Akbari**

Laboratory for Innovations in Microengineering (LiME), Department of Mechanical Engineering, University of Victoria, Victoria, BC V9P 0C8, Canada

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### Message from the Guest Editors

Dear Colleagues,

Tissue-engineered scaffolds aim to recapitulate the physiological environment of the extracellular matrix in vivo. This enables biomimetic mechanical and structural properties; proper transport of oxygen, nutrients, and metabolic waste; and, therefore, improved cellular behavior when exposed to the scaffold. Fiber-based scaffolds fabricated through spinning, extrusion-based printing, and molding have attracted increasing attention in the last decade to address the above-mentioned requirements for bottom-up tissue reconstruction.

The current Special Issue is focused on the recent advancements in the development of strategies for the fabrication of fiber-based scaffolds and their application for tissue engineering and regenerative medicine. Specifically, we aim to cover novel approaches enabling a controlled scaffold microstructure, multimaterial spatial distribution, and in vivo fabrication processes. Furthermore, the application of engineered tissues using fiber-based scaffolds for in vitro tissue modeling, regenerative medicine, and emerging fields such as cellular agriculture will be covered.

Dr. Mohamadmahdi Samandari

Dr. Mohsen Akbari

*Guest Editors*





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### **Prof. Dr. Anthony Guiseppi-Elie**

Department of Biomedical  
Engineering, Texas A&M  
University, College Station, TX  
77843, USA

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*Bioengineering* Editorial Office  
MDPI, St. Alban-Anlage 66  
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