Special Issue

Wound Healing and Regenerative Medicine

Message from the Guest Editors

After injury, the body undergoes a complicated healing process that could lead to either fibrotic tissue repair or tissue regeneration. In humans, these injuries result in scar tissue formation and diminished function of the organ of interest. Over the past few decades, significant advances in bioengineering technologies have drastically improved our ability to fine tune molecular, cellular, and tissue healing kinetics across a vast range of organ systems and disease states. These developments have opened up a new frontier in novel biomedical engineering techniques for the promotion of healing and regeneration. We aim to capture the application of a diverse range of new biomedical technologies in fields such as biomolecular/cellular/tissue engineering, biomaterials, biomimetics, biomechanics, bioelectronics, and biochemical engineering to study new translational avenues for wound healing and regenerative medicine. This Special Issue will demonstrate how these techniques can modulate cellular recruitment, cellular signaling, molecular machinery, extracellular matrix deposition, and subsequent tissue remodeling to promote beneficial healing or even regeneration after injury.

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Editor-in-Chief

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