

Special Issue

Immune Cell Mediated Tissue Regeneration

Message from the Guest Editor

It has been demonstrated that an immune response is essential to the initiation of tissue repair after injury but too much inflammation contributes to secondary tissue damage. Indeed, tissue repair and regeneration are tightly orchestrated by immune cells, including neutrophils, macrophages, and even T lymphocytes such as regulatory T cells. Emerging evidence suggests that immune cells can also interact with tissue stem or progenitor cells to facilitate regeneration. This Special Issue, entitled "Immune-Cell-Mediated Tissue Regeneration", aims to discuss interdisciplinary approaches to the study of tissue repair and regeneration that combine developmental biology, regenerative biology, immunology, and biomaterial and tissue engineering. We will also delineate the mechanisms by which immune cells adopt an anti-inflammatory, anti-fibrotic, pro-wound-healing, and tissue-regenerating phenotype in different organ systems after injury, and highlight how some of these mechanisms could be exploited therapeutically.

Guest Editor

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