



Inflammation, Metabolism and Molecular Changes in Tissue Repair and Regeneration

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Message from the Guest Editor

Tissue repair after injury and surgical procedures is a complex, metabolically demanding process. Depending on the tissue's regenerative capacity and the quality of the inflammatory response, the outcome is generally imperfect, with some degree of fibrosis, which is defined by the aberrant accumulation of collagenous connective tissue. Inflammatory cells multitask at the wound site by facilitating wound debridement and producing chemokines, metabolites, and growth factors. If this well-orchestrated response becomes dysregulated, the wound can become chronic or progressively fibrotic, with both outcomes impairing tissue function, which can ultimately lead to organ failure and death. The aim of this Special Issue is to obtain a profound overview of the current understanding of the role of inflammation and cell metabolism in tissue-regenerative responses, to highlight emerging concepts that may expand therapeutic perspectives, and to briefly discuss where important knowledge gaps remain.





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Message from the Editor-in-Chief

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