



Novel Therapeutic Strategies in Wound Healing and Skin Regeneration

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Message from the Guest Editor

Non-healing wounds and skin loss are major healthcare problems around the world costing healthcare systems billions of dollars a year. Recent technologies such as tissue engineering, biomaterial science, and in situ 3D printing have significantly advanced the development of skin tissue mimetics with clinical potential. Novel therapeutic strategies enabled the development of split or full-thickness skin substitutes to recapitulate the native functional skin.

Furthermore, numerous therapies such as immune cell, stem/progenitor cell therapies, as well as micro RNA- and siRNA-based techniques, and gene editing tools have been investigated to improve wound healing. Recent emerging techniques can reveal the mechanisms of skin regeneration and have immense potential to radically revolutionize the current situation.

In this Special Issue, we will publish research on various emerging and state-of-the-art approaches being developed and implemented for accelerating wound healing and skin regeneration.





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