



New Advances in Complex Wound Management: Biofilms and Emerging Biotechnologies as Effective Therapies

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Message from the Guest Editors

Wound healing is still an evolving field of research. There are several approaches to achieving healing: multidisciplinary, biotechnology, and strategies to counter biofilms. Infection and biofilm formation is one of the main causes of chronic wounds.

Several advanced dressings, biotechnologies, and biomaterials have been described with the aim of improving the wound healing; among these, hydrogel, platelet-rich plasma (PRP), and dermal substitutes are particularly promising.

In this Special Issue, we would like to highlight the wide variety of hydrogel, PRP, and dermal substitute applications in wound healing and regenerative surgery, analyzing also the biomolecular pathways through which they act. This Special Issue, which will serve as an updated reference for biomaterials and biotechnologies used in wound healing, will collect contributions (original research articles, reviews) dealing with innovative regenerative biomedical applications based on PRP, dermal substitutes, and advanced dressings. Both in vitro and in vivo studies are welcome, with the final goal of shedding light on the new frontiers of advanced dressing, and regenerative strategies in wound healing.





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Message from the Editor-in-Chief

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