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Skin Wound Repair: Tissue Engineering, Guided Regeneration, and Wound Scarring Prevention—2nd Edition

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Message from the Guest Editors

Skin is a specialized tissue, a protective barrier against physical trauma or external pathogens, with an immune–neuroendocrine role, through which it helps in maintaining body homeostasis. Even though several clinical and experimental research studies have covered the process of wound healing and discovered ways to guide a desired healing course, the disorders of normal skin wound repair continue to be an important social and economic burden.

Skin wound repair involves a multitude of cells in an attempt to rapidly restore skin integrity for maintaining normal function. This highly specialized healing process must be rigorously balanced in order to ensure an adequate tissue repair. Tissue engineering helps us develop and find bioartificial substitutes for wound healing. Various ways to guide skin regeneration are tested, to promote normotrophic tissue healing and to prevent scarring formation.

There are many issues to be resolved for solving the puzzle of regenerative tissue engineering, wound scarring prevention, and guided wound healing. Therefore, the goal of this Special Issue is to promote research in this field and to permit the exchange of experiences among specialists.





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