

Special Issue

Update on Acute and Chronic Wound Healing

Message from the Guest Editors

Wound healing after damage to the skin involves a complex interplay between many cellular players of the skin, primarily keratinocytes, fibroblasts, and endothelial cells of vessels, as well as recruited immune cells and their associated extracellular matrix. In healthy individuals, the restoration of a functional epidermal barrier is highly efficient, whereas repair of the deeper dermal layer is less perfect and often results in scar formation with a substantial loss of original tissue structure and function. When the normal wound repair process is impaired, impaired wound healing can lead to chronic wounds or to excessive formation of scar tissue. Tissue repair is a universal phenomenon across all multicellular organisms, and we think that many wound healing mechanisms can be analyzed in more experimentally tractable models than humans, and can be subsequently extrapolated back to the clinic for potential therapeutic benefits. Because of similarities to humans, in vivo and ex vivo wound healing models are used for investigating repair mechanisms. The aim of this Special Issue is to give an update basic, translational, and clinical research related acute and chronic wound healing.

Guest Editors

Prof. Dr. Lars P. Kamolz

Dr. Thomas Wild

Dr. Mihaela Pertea

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Medicina
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
medicina@mdpi.com

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Prof. Dr. Edgaras Stankevičius
Medical Academy, Lithuanian University of Health Sciences, Kaunas,
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