

Special Issue

Biomaterials in Skin Wound Healing and Tissue Regenerations Volume II

Message from the Guest Editors

Normal skin wound healing is a complex biological process, involving many different stages and cell types as well as numerous signalling molecules and pathways which aim to restore skin structure and function.

However, impaired wound healing is a major medical problem, especially in diabetes. The promotion of skin regeneration in cases of acute or chronic wounds through the use of tissue-engineered products is an active field of research. One of the primary goals of tissue engineering and regenerative medicine is the development of a matrix or scaffolding system that mimics the structure and function of native tissue. In the last few years biomaterials have been widely investigated for several biomedical applications, such as implants, wound dressings, scaffolds, drug delivery systems, and antibacterial agents for regenerative medicine. These materials' surface functionalization, by incorporating biomolecules, biopolymers, or bioactive drugs, has been shown to achieve improvements in the field of creating new types of wound dressings.

Guest Editors

Dr. Marek Konop

Department of Experimental Physiology and Pathophysiology,
Laboratory of Centre for Preclinical Research, Medical University of
Warsaw, 02-091 Warszawa, Poland

Prof. Dr. Ewa Kłodzińska

Department of Analytical Chemistry and Instrumental Analysis, Institute
of Sport-National Research Institute, Warsaw, Poland

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Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
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Prof. Dr. Patrick J. Sinko
Department of Pharmaceutics, Ernest Mario School of Pharmacy,
Rutgers University, Piscataway, NJ 08854, USA

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