

Special Issue

Biomaterials in Skin Wound Healing and Tissue Regenerations

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 signaling molecules and pathways which aim to restore skin structure and function.

However, impaired wound healing is a major medical problem, especially in diabetes. Promotion of skin regeneration in case 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 dressing, 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 fields of creating new type of wound dressings.

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