

Special Issue

Polymer-Based Wound Dressings

Message from the Guest Editors

The delayed process of wound healing and skin regeneration is a major challenge in the treatment of injuries. Some known factors are responsible for delayed wound healing, such as microbial infections, underlying and immunocompromised conditions, etc. Most commercially available wound dressings also suffer from limitations such as poor antibacterial and antioxidant activity, weak mechanical performance, and an inability to provide suitable moisture for wound healing, thereby limiting their application in wound healing. A series of preclinical studies have shown that wound dressings prepared from biopolymers promote wound healing and skin regeneration. However, biopolymers exhibit poor mechanical properties and are usually combined with synthetic polymers and other classes of material to improve their mechanical properties. To further improve the biological properties of polymer-based wound dressings, these dressings are loaded with various bioactive agents, resulting in accelerated wound healing and skin regeneration. This Special Issue aims to highlight the efficacy of polymer-based wound dressings from the reported preclinical and clinical studies.

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