

Special Issue

Functional Biomaterials and Skin Wound Healing

Message from the Guest Editor

Chronic wounds are characterized as non-healing wounds due to poor angiogenesis, impaired vascularization, collagen formation, and dysfunctional fibroblasts and keratinocytes in the hypoxic wound environment. These chronic wounds initially resulted from pathological conditions such as diabetes, neuronal trauma (CNS injuries), and burn injuries. These wounds are secondarily affected by several bacterial population. Recently, there has been much debate regarding bio-inspired functional biomaterials and their role in skin wound healing and bacterial disinfection directly or indirectly. In this Special Issue, we will focus on applications of these functional biomaterials in skin wound healing and study their response under challenging pathological conditions using *in vitro*, *in vivo*, and *ex vivo* systems. Due to the wide scope of these biomaterials, contributions relating to biomaterials, incorporated biomaterials (e.g., skin substitute), CNS injuries, tissue engineering, and biomimetics are also welcome.

Guest Editor

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About the Journal

Message from the Editor-in-Chief

The biomaterials field is one of the largest and fastest growing research areas both in the scientific community and in the industrial one. Biomaterials are the result of collaborations between different disciplines: chemistry, medicine, pharmacology, engineering and biology. The objective of this collaboration is to lead to the implementation of new devices to restore form and human body functions. The mission of the *Journal of Functional Biomaterials (JFB)* is to focus attention on physico-chemical characteristics and their importance in the interactions between biomaterials and living tissues. *JFB* seeks to publish studies on the preparation, performance and use of biomaterials in biomedical devices, as well as regarding their behavior in physiological environments. We are pleased to welcome you as our authors.

Editor-in-Chief

Prof. Dr. Pankaj Vadgama
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