



Recent Advances in Skin Repair and Regeneration

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Message from the Guest Editors

Dear Colleagues,

Defects in wound healing after injuries or diseases related to impaired skin tissue repair, such as diabetes, aging, cancer, etc., constitute a major public health concern. Despite the progress in the field of skin biology and regeneration, we still need to better understand the mechanisms that regulate skin tissue repair to provide more adequate therapeutic options. Currently, there is huge demand for the development of reconstructed skin equivalents to serve either as grafts to restore skin barrier function after injury and to facilitate wound healing or as in vitro skin models for the study of skin mechanobiology, dysfunctional skin mechanobiology leading to disease and abnormal wound healing, toxicity and pharmaco-cosmetics testing.

The aim of this Special Issue is to collect important contributions and potential breakthroughs in regenerative research and technologies for the development of in vitro skin models, skin disease simulation and the validation of pharmaceuticals/cosmetics.

Potential topics include, but are not limited to: stem cells, tissue engineering, organ-on-a-chip, 3D printing; biomaterials, and mechanobiology.





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