

Special Issue

Recent Advances in Skin Repair and Regeneration

Message from the Guest Editors

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.

Guest Editors

Dr. Anna Michopoulou

Laboratory of Biological Chemistry, Medical School, Aristotle University of Thessaloniki, 54124 Thessaloniki, Greece

Dr. Patricia Rousselle

Laboratoire de Biologie Tissulaire et Ingénierie Thérapeutique, UMR 5305, CNRS-Université Lyon 1, SFR BioSciences Gerland-Lyon Sud, 7 Passage du Vercors, 69367 Lyon, France

Deadline for manuscript submissions

closed (31 December 2023)



Bioengineering

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Impact Factor 3.7
CiteScore 5.3
Indexed in PubMed



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Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
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Editor-in-Chief

Prof. Dr. Anthony Guiseppi-Elie

Department of Biomedical Engineering, Texas A&M University, College Station, TX 77843, USA

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