

Special Issue

Innovative Approaches in In Vitro Skin Models: From Design to Application

Message from the Guest Editor

As you are aware, in vitro skin models have become invaluable tools in dermatological research, cosmetic testing and the study of skin diseases. These models offer significant potential for reducing reliance on animal testing, enhancing our understanding of skin physiology and accelerating the development of new therapeutic strategies. However, despite their widespread use, there remain challenges in replicating the complexity and diversity of human skin.

This Special Issue seeks to highlight innovative approaches that address these challenges, including, but not limited to, the following:

Novel designs and fabrication techniques for in vitro skin models;

Advanced materials and bioengineering approaches for skin model construction;

Integration of multi-cellular components to better mimic skin physiology;

Applications of in vitro skin models in drug testing, disease modeling and cosmetic evaluation;

Challenges and future directions in the field of in vitro skin models.

We welcome original research articles, reviews, case studies and short communications that contribute to these themes.

Guest Editor

Dr. Tina Maver

1. The Institute of Biomedical Sciences, Faculty of Medicine, University of Maribor, Taborska ulica 8, 2000 Maribor, Slovenia

2. The Department of Pharmacology, Faculty of Medicine, University of Maribor, Taborska ulica 8, 2000 Maribor, Slovenia

Deadline for manuscript submissions

closed (31 October 2025)



Biomedicines

an Open Access Journal
by MDPI

Impact Factor 3.9
CiteScore 7.8
Indexed in PubMed



mdpi.com/si/214475

Biomedicines
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
biomedicines@mdpi.com

[mdpi.com/journal/
biomedicines](https://mdpi.com/journal/biomedicines)





Biomedicines

an Open Access Journal
by MDPI

Impact Factor 3.9
CiteScore 7.8
Indexed in PubMed



[mdpi.com/journal/
biomedicines](https://mdpi.com/journal/biomedicines)



About the Journal

Message from the Editor-in-Chief

Biomedicines (ISSN 2227-9059) is an open access journal devoted to all aspects of research on human health and disease, the discovery and characterization of new therapeutic targets, therapeutic strategies, and research of naturally driven biomedicines, pharmaceuticals, and biopharmaceutical products. Topics include pathogenesis mechanisms of diseases, translational medical research, biomaterial in biomedical research, natural bioactive molecules, biologics, vaccines, gene therapies, cell-based therapies, targeted specific antibodies, recombinant therapeutic proteins, nanobiotechnology driven products, targeted therapy, bioimaging, biosensors, biomarkers, and biosimilars. The journal is open for publication of studies conducted at the basic science and preclinical research levels. We invite you to consider submitting your work to *Biomedicines*, be it original research, review articles, or developing Special Issues of current key topics.

Editor-in-Chief

Prof. Dr. Felipe Fregni

1. Neuromodulation Center and Center for Clinical Research Learning, Spaulding Rehabilitation Hospital and Massachusetts General Hospital, Harvard Medical School, Boston, MA 02114, USA

2. Department of Epidemiology, Harvard T.H. Chan School of Public Health, Boston, MA 02115, USA

Author Benefits

High Visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, PMC, CAPlus / SciFinder, and other databases.

Journal Rank:

JCR - Q1 (Pharmacology and Pharmacy) / CiteScore - Q1 (Medicine (miscellaneous))

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 21 days after submission; acceptance to publication is undertaken in 2.8 days (median values for papers published in this journal in the second half of 2025).