

Special Issue

Wound Repair and Regeneration: From Molecular and Cellular Mechanisms to New Approaches

Message from the Guest Editor

Wound healing is a complex, multistep biological process crucial for the restoration of the skin barrier and maintenance of tissue integrity following injury. This highly orchestrated cascade has some overlapping phases, namely hemostasis, inflammation, proliferation, and remodeling, each controlled by interactions between many cell types, such as keratinocytes, fibroblasts, endothelial cells, and immune cells, through complex networks of various signaling molecules. This process often proceeds toward suboptimal outcomes, either to chronic, non-healing wounds—a huge burden on health care systems—or to excessive fibrosis and scarring. A more complete elucidation of the detailed molecular and cellular mechanisms that either allow or prohibit the transition from normal repair to pathologic states—or dictate successful tissue regeneration, as observed in lower vertebrates—remains an important challenge. Submissions focused on basic biology, pathophysiology, and novel therapeutic approaches of wound healing are invited. We look forward to hearing from you.

Guest Editor

Dr. Elia Ranzato

DISIT-Dipartimento di Scienze e Innovazione Tecnologica, University of Piemonte Orientale, Viale Teresa Michel 11, 15121 Alessandria, Italy

Deadline for manuscript submissions

20 July 2026



Biomolecules

an Open Access Journal
by MDPI

Impact Factor 4.8
CiteScore 9.2
Indexed in PubMed



mdpi.com/si/264352

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

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





Biomolecules

an Open Access Journal
by MDPI

Impact Factor 4.8
CiteScore 9.2
Indexed in PubMed



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



About the Journal

Message from the Editorial Board

Biomolecules is a multidisciplinary open-access journal that reports on all aspects of research related to biogenic substances, from small molecules to complex polymers. We invite manuscripts of high scientific quality that pertain to the diverse aspects relevant to organic molecules, irrespective of the biological question or methodology. We aim for a competent, fair peer review and rapid publication. Please look at some of the exciting work that has been published in *Biomolecules* so far. We would be delighted to welcome you as one of our authors.

Editors-in-Chief

Prof. Dr. Peter E. Nielsen

Department of Cellular and Molecular Medicine, Faculty of Health and Medical Sciences, University of Copenhagen, Blegdamsvej 3C, DK-2200 Copenhagen, Denmark

Prof. Dr. Lukasz Kurgan

Department of Computer Science, Virginia Commonwealth University, Richmond, VA 23284, USA

Author Benefits

Open Access

– free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

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

Journal Rank:

JCR - Q1 (Biochemistry and Molecular Biology) / CiteScore - Q1 (Biochemistry)