

Special Issue

Innovative Strategies and Molecular Insights Into Wound Healing

Message from the Guest Editor

Wound healing is a multifaceted biological process involving overlapping phases of hemostasis, inflammation, proliferation, and remodeling.

This Special Issue aims to provide a multidisciplinary forum for cutting edge research that advances our mechanistic understanding of wound healing and translates innovative therapies into clinical practice. We welcome the submission of original research articles, reviews, and commentaries related to, but not limited to, the following topics:

- Molecular and cellular mechanisms governing each phase of wound healing and scar formation
- Role of immune cells, inflammation resolution, and the skin microbiome in tissue regeneration
- Advanced biomaterials and smart wound dressings
- Gene therapy, RNA interference, exosome based interventions, and growth factor delivery
- Applications of stem cells, engineered tissues, and regenerative medicine
- Noninvasive and energy based therapies and their mechanistic effects
- Digital and wearable technologies for wound assessment, telemedicine, and AI driven decision support
- Strategies for preventing and treating chronic wounds and hypertrophic scars

Guest Editor

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Deadline for manuscript submissions

31 January 2026



International Journal of Molecular Sciences

an Open Access Journal
by MDPI

Impact Factor 4.9
CiteScore 9.0
Indexed in PubMed



mdpi.com/si/250128

*International Journal of
Molecular Sciences*
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About the Journal

Message from the Editor-in-Chief

The International Journal of Molecular Sciences (*IJMS*, ISSN 1422-0067) is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, molecular biophysics, molecular medicine, and all aspects of molecular research in chemistry. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

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