

Special Issue

Biological Cues for Tissue Regeneration and Bioactive Materials

Message from the Guest Editor

Regenerative medicine aims at restoring lost soft or hard tissues with functional ones. The challenge increases exponentially when the engineered tissue has to replace a large defect, be used in aseptic conditions, or to overcome a systemic disease.

Delivery of nano and micro bioactive molecules has many methods as the supporting matrix directly, or binding to the material surface, or covalently linking cell adhesion molecules to the scaffold. Furthermore, nanotechnology enabled the structuring of novel biomaterials with customized mechanical and physiological properties to stimulate regeneration of soft and hard tissues. The scope of this special issue aims to cover the understanding of biological cues in tissue regeneration, the fabrication of nanostructured biomaterials and bioactive materials potential to achieve recovery of tissue function. Keywords

- tissue regeneration
- bioactive materials
- cell delivery systems
- nanostructured materials
- in vitro models

*An early bird discount will be available for submission before 31 May 2022.

Guest Editor

Dr. Thaqif El Khassawna

Experimentelle Unfallchirurgie, FB11 Medizinisches Forschungszentrum (ForMed) Aulweg 128, D-35392 Gießen, Germany

Deadline for manuscript submissions

closed (15 December 2022)



International Journal of Molecular Sciences

an Open Access Journal
by MDPI

Impact Factor 4.9
CiteScore 9.0
Indexed in PubMed



mdpi.com/si/105002

*International Journal of
Molecular Sciences*
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
ijms@mdpi.com

mdpi.com/journal/

[ijms](https://www.mdpi.com)





International Journal of Molecular Sciences

an Open Access Journal
by MDPI

Impact Factor 4.9
CiteScore 9.0
Indexed in PubMed



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



About the Journal

Message from the Editor-in-Chief

The *International Journal of Molecular Sciences (IJMS)* 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, and molecular biophysics. *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.

Editor-in-Chief

Prof. Dr. José L. Quiles
Department of Physiology, Institute of Nutrition and Food Technology
"Jose Mataix", Biomedical Research Center, University of Granada,
Avda. Conocimiento s/n, 18100 Armilla, Granada, Spain

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, PMC, MEDLINE, Embase, CAPus / SciFinder, and other databases.

Journal Rank:

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