

Special Issue

Regenerative Medicine: Role of Stem Cells and Innovative Biomaterials 3.0

Message from the Guest Editors

Regenerative medicine is a growing area of the medical sciences that has the unique peculiarity of involving both biological pathways and clinical applications. Currently, the main actors in tissue regeneration are stem cells and biomaterials. The proper combination of these factors is the key to successfully treating damaged or lost tissues, promoting tissue formation, and simultaneously restoring aesthetics and function. Future regenerative strategies will be aimed at developing innovative biologically friendly and smart biomaterials, as well as at triggering stem cells towards specific lineages in clinical-grade conditions, including through the use of MSC-derived conditioned medium, exosomes or small molecules. The next approaches should overcome the current biological and clinical limitations and be able to use those autologous factors that can naïvely induce and promote the biological conditions that could guide and improve any kind of tissue regeneration. This Special Issue will highlight the most promising applications of tissue engineering in the future diagnostic and therapeutic procedures applied to the medical sciences.

Guest Editors

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Deadline for manuscript submissions

closed (30 November 2022)



International Journal of Molecular Sciences

an Open Access Journal
by MDPI

Impact Factor 4.9
CiteScore 9.0
Indexed in PubMed



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*International Journal of
Molecular Sciences*
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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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