

Special Issue

Regenerative Medicine: Molecular Mechanisms Driving Tissue Regeneration and Repair

Message from the Guest Editors

The restoration of damaged or diseased tissues through regenerative medicine holds significant potential across a wide range of clinical applications. While major strides have been made in cell-based therapies, biomaterials, and tissue engineering, a detailed understanding of the molecular mechanisms that orchestrate tissue regeneration and repair remains critical to advancing safe and effective therapies. This Special Issue of the *International Journal of Molecular Sciences* invites original research articles and reviews focused on elucidating the molecular and cellular pathways that underline regenerative processes in mammalian systems. Topics of interest include but are not limited to the following: stem cells and signaling, immune modulation in repair, extracellular matrix remodeling, mechanotransduction, epigenetic reprogramming, and the role of growth factors, gene regulation, gene editing, or extracellular vesicles in regeneration. We welcome your submissions!.

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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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