

Special Issue

Molecular and Cellular Research on Cardiac Repair and Regeneration

Message from the Guest Editors

This Special Issue aims to explore the latest molecular and cellular research on cardiac repair and regeneration, with a focus on the mechanisms that drive these processes and their potential therapeutic applications.

Key topics include cellular and molecular pathways involved in heart regeneration, such as cardiomyocyte differentiation and proliferation, stromal cell activation and function in cardiac tissue repair, extracellular matrix homeostasis and remodeling, and angiogenesis. We welcome studies on novel mechanisms, therapeutic targets and strategies, including gene and RNA-based therapies, epigenetic regulation, and bioengineering approaches to model cardiovascular injury and study repair. Additionally, research on signaling pathways that modulate cardiac repair as well as mediating intercellular crosstalk among the various cardiac resident cell types is of particular interest. The role of inflammation, immune response, and fibrosis resolution in heart tissue regeneration will also be explored.

Guest Editors

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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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