

Special Issue

Molecular Research on Heart Protection

Message from the Guest Editors

The recent decades have witnessed the discovery of novel stem cells and regenerative medicine approaches for treatment of heart diseases. Effective stem cell therapy for cardiac problems requires deeper understanding of molecular mechanisms leading to improvement in cardiac structure and function in both pathologic models and clinical trials. Elucidating these mechanisms will provide insights into developing strategies to boost the regenerative potential of stem cells and to maximize the properties required for heart protection. In this issue, we aim to address genetic, signaling networks and biological aspects by which different stem cell types exert their beneficial effects to prevent and reverse deleterious cardiac remodeling that occurs after heart injury. Importantly, we hope to gain a better understanding of regulatory factors that ensure stem cell survival, proliferation, migration, and interaction with neighboring cells to restore damaged heart tissues. We invite papers that contribute to the new and rapid developments in molecular basis of stem cell therapy in heart repair and regeneration to provide promising perspectives for future treatment of heart injury.

Guest Editors

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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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