

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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