

Special Issue

Calcium Mishandling, Inflammation, microRNAs and Their Role in the Adverse Cardiovascular Remodelling

Message from the Guest Editors

The prevalence of heart failure (HF) consequent to adverse cardiac remodeling continues to rise, increasing the rate of morbidity and mortality worldwide. Cardiovascular adverse remodeling is a complex process involving calcium (Ca^{2+}) mishandling, inflammation, and cardiac myocyte death, among other mechanisms. Although substantial progress has been made and a significant amount of data has accumulated in recent years, many aspects of inflammation, the dysregulation of the intracellular Ca^{2+} concentration ($[\text{Ca}^{2+}]_i$), and the role of miRNAs in post-transcriptional gene regulation remain unexplored. The objective of this Special Issue is to highlight the impact of inflammation and $[\text{Ca}^{2+}]_i$ mishandling on adverse cardiac remodeling. In addition, this Special Issue will also discuss the role of miRNAs in the post-transcriptional regulation of genes associated with $[\text{Ca}^{2+}]_i$ and/or inflammation, which can influence cardiac remodeling and HF progression. We welcome original research and up-to-date review articles on any of these aspects.

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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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