

Special Issue

Molecular Mechanisms and Pathophysiology of Myocardial Disease

Message from the Guest Editors

Numerous advances have been made in cardiovascular medicine in recent years, though a complete understanding of the mechanisms and pathophysiology remain largely under-reported. Details at the molecular level of the myocardium and systemic molecular mechanisms are needed to improve the understanding of disease development, progression, and endstage characteristics. The specialized muscle is important for cardiac contractility, ion exchange, systemic perfusion, coronary circulation, and pathological/compensatory remodeling. Physiological changes from inflammation or infection, fluid dynamics, or concurrent diseases (comorbidities: diabetes mellitus, renal and liver dysfunction, atherosclerosis, sarcopenia/cachexia, COPD) also have profound outcomes on the myocardium. New insights may lead to discovery of potential biomarkers, targets for pharmacological intervention, and eventually preventative strategies for those at risk of cardiomyopathy and resulting heart failure. We welcome original research, reviews, and brief reports focusing on molecular mechanisms and pathophysiology associated with myocardial disease and heart failure.

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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