

Special Issue

Recent Research on Cardiac Troponins

Message from the Guest Editors

The cardiac troponin complex (cTn) is a regulatory component of sarcomere, consisting of three subunits: cardiac troponin C (cTnC), which confers Ca²⁺ sensitivity to muscle; cTnI, which inhibits the interaction of myosin cross-bridges with thin filaments during diastole; and cTnT, which has multiple roles in sarcomere. Conditions that interfere with interactions within cTn and/or other thin filament proteins can be key factors in the regulation of cardiac contractions. These conditions include alterations in myofilament Ca²⁺ sensitivity, direct changes in cTn function, and/or triggering downstream events that lead to adverse cardiac remodeling and impairment of heart function. This Special Issue aims to evaluate the mechanisms of cTns regulation that can adversely affect the delicate balance among the components of the complex, thereby promoting contractile dysfunction, together with the molecular/cellular processes involved in cTns release in blood and the exploitation of cTnI and cTnT as biomarkers of cardiac adverse events.

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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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