Tentative Outline

Special Thematic Issue for the journal: Current Drug Targets

Title of the Thematic Issue: Translational aspect of Pharmacological Cardioprotection

Guest Editors: Dr. Naseer Ahmed, MBBS, PhD, FESC, Prof. Giuseppe Faggian, MD and Prof. Giudo

Fumagalli, MD, PhD

Scope of the Thematic Issue:

Objective of this special issue is to collect latest advancement of Pharmacological cardioprotection with regard to Ischemia reperfusion injury using novel drugs and to bring the most necessary information in a timely and concise format, Translational aspect of Pharmacological Cardioprotection takes a fresh and energetic look at advances in this dynamic field.

In the last 1-2 decades' huge number of experimental work has been done but unfortunately majority of the finding were not able to translate in clinical settings. Inflammation and oxidative stress has been documented as playing a vital role following ischemia-reperfusion injury and, as a consequence, to be an important therapeutic target for the treatment of heart failure. However, inflammation and oxidative stress contributes differently to the pathogenesis of cardiac dysfunction and to various patterns of cardiac remodeling. Several mediators of inflammation and oxidative stress trigger the remodeling cascade, a process that initially confers protection to the heart as a compensatory mechanism. Yet chronic inflammation after myocardial infarction also leads to cardiac remodeling that, when prolonged, leads to heart failure progression. The diversity of inflammation and oxidative stress further demonstrates the need for a personalized characterization of inflammation enabling subsequent target-specific strategies. This inevitability is supported by the disappointing outcomes to date of anti-inflammatory and anti-oxidative stress strategies used in heart failure patients. This special issue is designed to focus on the interplay of inflammation/oxidative stress and cell injury/death following myocardial ischemia-reperfusion. The issue also aims to investigate the impact of regulation of inflammatory signals on the evolution of cardiac remodeling and function and to identify novel potential therapeutic targets. Both basic science and clinical studies are welcomed.

Potential topics include but are not limited to the following:

reperfusion injury, Translational research, experimental models, clinical trials

Keywords: Cardioprotection, therapeutic targets, Heart Failure, Anti-inflammatory drugs, Antioxidants, Ischemia

Sub-topics: Cardiac Surgery, Interventional Cardiology, Heart Failure, Cardiopulmonary bypass, Heart
Transplantation

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Schedule:

♦ Thematic issue submission deadline: 15th April, 2021

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