

Special Issue

Pharmacological Conditioning of the Heart-Molecular Targets

Message from the Guest Editors

Decades after the first investigations of Murry and colleagues discovering the phenomenon of conditioning the heart, we still seek a way to translate this powerful tool into clinical settings and to the patient who suffers from ischemic heart diseases. This is mostly explained by the fact that all animal and in vitro experiments are not able to reflect the clinical situation close enough, and several studies are performed in healthy animals or cells, lacking underlying co-morbidities, the relevant anesthetic regime and other important factors.

However, revealing different molecular mechanisms and targets involved in cardioprotection is exactly the right way to translate the phenomenon of conditioning the heart to the clinic. By identifying different druggable interventions, we can learn to understand how we can prime the heart against a lethal ischemic stimulus. Therefore, with this themed issue, we welcome all research that focuses on conditioning of the heart, with a special focus on revealing the molecular targets involved in conditioning.

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