

Special Issue

Hunting for Prospective Molecular Approaches to Prevent Cardiac Arrhythmias

Message from the Guest Editor

The prevention and management of cardiac rhythm disorders, including atrial and ventricular fibrillation, is still a hot topic in clinical medicine. The heart is an electromechanical pump, and its function involves complex and coordinated activity. Asynchrony in these events promotes the development of life-threatening cardiac arrhythmias. Thus, therapies for prevention and treatment require a fundamental understanding and the ability to visualize, perturb and control cardiac electrical activity. Accordingly, continuous efforts are being made to reveal pro-arrhythmia triggers and to determine pro-arrhythmia markers in specific cardiac conditions. In turn, research is being conducted to explore new approaches for rhythm control and the prevention/attenuation of dysrhythmias in jeopardized heart. The outcomes of this research may include novel insights into current cardio-protective agents or natural compounds exhibiting antiarrhythmic potential, as well as epigenetic approaches.

Guest Editor

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