

Special Issue

Arrhythmias: Molecular Mechanisms and Therapeutic Strategies

Message from the Guest Editor

Sleep-disordered breathing (SDB) is defined by alterations in respiratory patterns that occur during sleep. The physiological pressures associated with SDB lead to long-lasting biological repercussions. These effects ultimately cause changes in the cardiovascular system, increasing the likelihood of developing cardiac arrhythmias. It is crucial to enhance our understanding of the molecular and electrophysiological mechanisms behind cardiac arrhythmias in patients with SDB in order to develop an accurate diagnostic and effective treatment plan.

This Special Issue will provide readers with updated information on the involvement of inflammation, autonomic nerve system dysfunction, electrophysiologic alternation, ion channel, connexin and metabolic dysregulation in the molecular mechanisms of cardiac arrhythmias, specifically atrial fibrillation, ventricular arrhythmia, sudden cardiac death and bradycardia. The content will cover the transition from laboratory research to clinical applications. The articles will concentrate on the existing knowledge, significant unresolved concerns and forthcoming research to establish an advanced therapy for cardiac arrhythmias due to SDB.

Guest Editor

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