

Special Issue

Sleep-Disordered Breathing: Key Pathophysiological Mechanisms and Their Clinical Implications

Message from the Guest Editor

Sleep-disordered breathing (SDB) is a condition characterized by abnormal respiratory events during sleep. The underlying pathophysiology of this condition involves recurrent upper airway collapse, resulting from obesity, anatomical predisposition, neuromuscular dysfunction, and compromised pharyngeal dilator muscle activity during sleep. Moreover, the impact of SDB on metabolic homeostasis is significant, manifesting in the disruption of glucose metabolism, the development of insulin resistance, and the alteration of adipokine regulation. Recently, neuroinflammation and compromised glymphatic clearance during fragmented sleep have been demonstrated to contribute to cognitive impairment and neurodegenerative processes. In this Special Issue, we will cover recent outstanding findings regarding treatment strategies, biomarkers, and the pathophysiological mechanisms of diseases associated with SDB. This integrated approach is expected to provide readers with a better understanding of the pathophysiological consequences of SDB, from basic research to clinical practice.

Guest Editor

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