

Special Issue

Sleep Disordered Breathing and Related Comorbidities: From Bench to Beside

Message from the Guest Editors

Obstructive sleep apnea (OSA) is a common disease that can lead to serious health problems such as hypertension, diabetes mellitus, dyslipidemia, and neurocognitive dysfunction, and affects 2–4% of the global adult population. It is characterized by intermittent hypoxia and frequent arousals due to the repetitive collapse of the upper airway during sleep. These physiological properties lead to the activation and propagation of oxidative stress, inflammation, and sympathetic hyperactivity. Due to the lack of experimental models that can mimic OSA, the underlying mechanisms linking OSA and comorbidities are not clearly elucidated. However, advances in molecular and biological technologies have made it possible to better understand the pathophysiological phenomena of OSA-related diseases. In this Special Issue, we will cover recent outstanding findings regarding treatment strategies, biomarkers, pathophysiological mechanisms of diseases associated with OSA, important clinical and epidemiological results, and big data analysis. This integrated approach is expected to provide readers with a better understanding of the pathophysiologic consequences of OSA from bench to bedside.

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