

## Special Issue

# Obstructive Sleep Apnea and Related Disorders: Pathophysiological Traits and Strategies for Treatment

### Message from the Guest Editor

Obstructive sleep apnea (OSA) is a common disease that can lead to serious health problems, such as hypertension, diabetes mellitus, dyslipidemia, and neurocognitive dysfunction. It is characterized by intermittent hypoxia and sleep fragmentation due to repetitive collapse of upper airway during sleep. These physiological properties lead to 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, and pathophysiological mechanisms of various 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 and related disorders.

### Guest Editor

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