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## Molecular and Cellular Basis of Sleep Disorders

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### Message from the Guest Editor

Dear Colleagues,

Obstructive sleep apnea (OSA) is a very common sleep disorder. OSA is characterized by repeated obstructive of the upper airway during sleep accompanying intermittent hypoxia, sleep fragmentation, and fluctuations of intra-negative pressure. OSA is an independent risk factor of a variety of chronic diseases and dysfunctions, such as cardiovascular disease, metabolic disease, and neurocognitive dysfunction. Several molecular and cellular mechanisms involving inflammation and oxidative stress have been proposed to cause the development of OSA and OSA-related diseases, but the exact mechanisms remain elusive.

In this Special Issue, we will discuss recent interesting findings from in vitro studies, animal models including intermittent hypoxia, sleep fragmentation, and sleep deprivation, and human biomarker studies that provide insights to the pathogenesis of OSA and OSA-related diseases from a molecular and cellular perspective. These topics will ultimately allow us to develop therapeutic strategies for the treatment of OSA and OSA comorbidities.



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**Special** Issue



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