

Special Issue

Molecular Circuits Regulating Sleep and Wakeful Consciousness

Message from the Guest Editors

The sleep field has recently witnessed an exponential increase in the understanding of brain circuitries regulating sleep/wake behavior. The goal of the Special Issue is to gather original research and review articles relevant to the control of non-rapid eye movement (non-REM), REM sleep, or wakeful consciousness. We are especially seeking contributions that shed light on mechanisms underlying key aspects of the sleep states, such as sleep need; the circadian, ultradian, or behavioral gating of sleep; and REM sleep homeostasis. We are open to articles that use innovative techniques to study the detailed circuit and synaptic basis of sleep/wake control, for example, electrophysiological recording or imaging used in combination with pharmacologic or the genetically driven perturbation of defined sets of neurons or glial cells in all animals that have the ability to sleep or exhibit a sleep-like behavior. We also welcome studies on the molecular profiling of sleep and wake states or the crosstalk between sleep and peripheral physiological systems (e.g., immune system or metabolism), as well as studies about physical and chemical factors that influence sleep and wakefulness.

Guest Editors

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Deadline for manuscript submissions

closed (28 February 2022)



International Journal of Molecular Sciences

an Open Access Journal
by MDPI

Impact Factor 4.9
CiteScore 9.0
Indexed in PubMed



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*International Journal of
Molecular Sciences*
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The *International Journal of Molecular Sciences (IJMS)* is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, and molecular biophysics. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

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