

Special Issue

The Bidirectional Role of Sleep in Glia-Immune Signalling

Message from the Guest Editor

While the vast majority of studies on sleep have traditionally focused on neurons, glia-immune signalling has increasingly garnered attention for its important role in sleep physiology as well as sleep-driven changes in both the central and peripheral nervous systems. Furthermore, glia cells influence neuronal activity, which may additionally influence neuronal circuits that control sleep and wake behavior. Similarly, disturbance of the sleep/wake circuitry may alter glial-immune function, which promotes chronic neuroinflammation. There is still much to unravel about the mechanisms that link glia-immune signalling to sleep, including but not limited to their role in metabolism, synaptic plasticity, and the restoration of physiological homeostasis through healthy aging. For this Special Issue of *IJMS*, we welcome the submission of review and research articles that aim to identify and discuss potential mechanisms through which sleep and glia-immune signalling influence each other in regulating physiological functions.

Guest Editor

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The International Journal of Molecular Sciences (*IJMS*, ISSN 1422-0067) 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, molecular biophysics, molecular medicine, and all aspects of molecular research in chemistry. *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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