

## Special Issue

# Sleep, Pain and Immune Function

### Message from the Guest Editors

Insomnia is repeated difficulty in falling asleep, maintaining sleep, or experiencing low-quality sleep, resulting in some form of daytime disturbance. Sleeping disorders cause daytime fatigue, mental confusion, and over-sensitivity. Evidence of the involvement of immune-related molecules has increased over the past several decades. Inflammation is now understood to be involved with many beneficial functions, such as stimulating chemical substances to recruit cells or molecules to an injured cell, providing a physical barrier and response against pathogens, and of course, sleep. In addition, inflammatory molecules that regulate sleep can affect clock genes and vice versa. On the other hand, differentiating between circadian rhythm and sleep's effect on pain is challenging, as these two systems can be tightly coupled. Several diseases, such as multiple sclerosis, Parkinson's, and Alzheimer's, diseases are born by sleep disorders or are considered one of their causes. Therefore, the Special Issue welcomes original research relevant to sleep disorders, pain, neuroinflammation, and the immune system.

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### Guest Editors

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### Deadline for manuscript submissions

closed (30 December 2023)



## Brain Sciences

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You are invited to contribute a research article or a comprehensive review for consideration and publication in *Brain Sciences* (ISSN 2076-3425). *Brain Sciences* is an open access, peer-reviewed scientific journal that publishes original articles, critical reviews, research notes, and short communications on neuroscience. The scientific community and the general public can access the content free of charge as soon as it is published.

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