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Genetics of Sleep, Sleep Loss, and Cognitive Impairment

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Message from the Guest Editors

It has been well established that sleep loss degrades several aspects of cognitive performance, including attention, executive functions, and memory. However, there is considerable variability in individual sensitivity to cognitive impairment during sleep loss, which varies in a task-dependent manner. The stable, trait-like nature of these individual differences suggests a strong genetic component. As such, decades of research have used genetic approaches to investigate the neurobiological basis of phenotypic vulnerability to sleep loss and to identify genetic biomarkers for predict impairment across a wide variety of sleep loss paradigms. However, given the complex nature of cognition and the vast array of sleep and cognition-related genes, challenges still remain in making a direct link between phenotypic cognitive vulnerability to sleep loss and associated genetic mechanisms. This Special Issue is a collection of articles showcasing novel research into the genetic underpinnings of sleep loss-induced cognitive impairments in both humans and animal models, bringing together expert insights from the fields of sleep, circadian biology, genetics, and cognition.

Deadline for manuscript submissions:

closed (30 November 2021)



mdpi.com/si/82420

Special Issue



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Message from the Editor-in-Chief

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