



Molecular Research on Light's Effects on Animals and Humans

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Message from the Guest Editor

Dear Colleagues,

Light can influence the physiology and behavior of animals and humans through several pathways, including entrainment of circadian rhythms, which are involved in the control of homeostasis and body functions. Disruption of circadian rhythmicity plays a role in the pathogenesis of various diseases of civilization, and an elucidation of involved molecular mechanisms represents a basis for their effective prevention and treatment. Light pollution is a new and prominent change of our environment and lifestyle, which was not experienced during evolution. Therefore potential consequences of chronodisruption on health and biodiversity are rather unpredictable. New results are urgently needed on synchronization of circadian rhythm by light in combination with other environmental cues and on molecular mechanisms through which chronodisruption can affect physiological and behavioral processes of wild animals and humans. The topics of this Special Issue include but are not limited to molecular mechanisms, how light and chronodisruption influence sleep, metabolic, neurobiological, and behavioral processes, immune functions, and cancer.

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Guest Editor





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