



Impact of the Circadian Rhythm in Health and Diseases

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Message from the Guest Editor

Environmental cues are strongly linked to the modification of biological processes. In mammals, including humans, circadian rhythms are regulated by internal oscillators at the transcriptional levels in nearly all cells and tissues and thereby control 24 hour physiological and behavioral processes. However, in the current ‘24/7’ lifestyle, the individual behavioral cycle greatly impacts on the endogenous oscillators as well as on biological rhythms. Alterations in circadian rhythm have been associated with several significant health problems, including metabolic syndrome, cardiovascular diseases, inflammatory diseases, and even cancer, indicating the strong link between the circadian system and overall health.

This Special Issue will cover a range of topics in the field of chronobiology, emphasizing the novel concept of circadian rhythm in health and diseases and chronotherapies targeting the modulation of the circadian timing system. This Special Issue will focus on both basic studies and translational research in order to provide an in-depth representation of the contribution of the circadian rhythm to health and diseases.





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Message from the Editor-in-Chief

Addressing the environmental and public health challenges requires engagement and collaboration among clinicians and public health researchers. Scientific discoveries and advances in this research field play a critical role in providing a rational basis for informed decision-making toward control and prevention of human diseases, especially the illnesses that are induced from environmental exposure to health hazards.

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