

Special Issue

Exploring the Impact of the Biological Clock on Health and Disease

Message from the Guest Editor

Topics of interest in the Special Issue “Exploring the Impact of the Biological Clock on Health and Disease” include, but are not limited to, the following:

- The interaction of the master clock, peripheral clock, and clock genes with the endogenous and exogenous metabolites;
- The regulation of the circadian clock system, cellular synchrony, and molecular entrainment;
- The regulation of cell synchrony in different biological models by various stimuli including hormonal stimuli (melatonin, cortisol), nutritional stimuli, xenobiotics, drugs, toxins, etc.;
- The molecular pathways of clock genes in energy homeostasis, satiety and hunger–energy mechanisms, insulin resistance and diabetes, neurodegenerative diseases, ageing, and cancers;
- Biomarkers for the assessment of the state of the circadian rhythm at the three hierarchical levels.

In addition, review articles on the exploration of pharmacological and nutritional approaches targeting the circadian clock for the prevention and treatment of non-communicable diseases are also welcomed.

Guest Editor

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Message from the Editor-in-Chief

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.

Editor-in-Chief

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