

Special Issue

Crosstalk between Circadian Rhythm and Diseases

Message from the Guest Editor

Circadian rhythm is dominantly regulated by clock genes. Recent evidence suggests that the clock genes *CLOCK*, *BMAL1/2*, *DEC1/2*, *PER1/2/3*, and *CRY1/2* play important roles in tumor progression, metabolism, immune responses, and sleep disorders by regulating apoptosis-related factors, cell cycle regulators, and inflammatory factors. On the other hand, various kinds of stress, such as hypoxia, inflammation, and anti-tumor drugs, affect the expression of clock genes. Therefore, clock genes have multiple functions in vivo that are associated with various kinds of diseases. Our aim is to improve the understanding of crosstalk between circadian rhythms, clock genes, and diseases to allow the development of strategies to overcome diseases, involving clock gene abnormalities. We encourage the submission of original articles and reviews involving circadian rhythm/clock genes and diseases. Topics include, but are not limited to the following:

- Relevant circadian rhythm/clock genes and diseases
- Molecular pathways of clock genes, involving tumor progression, metabolism, inflammation, etc.
- Functional analyses of clock genes in mouse models

Guest Editor

Dr. Fuyuki Sato

Department of Diagnostic Pathology, Shizuoka Cancer Center, 1007 Shimonagakubo, Nagaizumi-cho, Sunto-gun, Shizuoka Prefecture 411-8777, Japan

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Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
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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

Prof. Dr. Maurizio Battino

Department of Odontostomatologic and Specialized Clinical Sciences,
Sez-Biochimica, Faculty of Medicine, Università Politecnica delle
Marche, Via Ranieri 65, 60100 Ancona, Italy

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