

Special Issue

Circadian Rhythm, Clock Genes and Their New Insight

Message from the Guest Editor

Circadian rhythm affects human health, as well as animals, plants, and microbes. It is dominantly regulated by clock genes. Clock genes such as 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. Clock genes have multiple functions that affect most living things.

Our aim is to improve the understanding of new mechanisms that circadian rhythms and clock genes affects human health, animals, plants as well as microbes, to allow the development of strategies to prevent or overcome adverse effects related to circadian rhythms. We encourage the submission of original articles, reviews and mini-reviews involving circadian rhythm, clock genes and human health, animals, plants, as well as microbes.

Guest Editor

Dr. Fuyuki Sato

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

Deadline for manuscript submissions

closed (30 April 2023)



International Journal of Molecular Sciences

an Open Access Journal
by MDPI

Impact Factor 4.9
CiteScore 9.0
Indexed in PubMed



mdpi.com/si/146730

*International Journal of
Molecular Sciences*
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
ijms@mdpi.com

[mdpi.com/journal/
ijms](https://mdpi.com/journal/ijms)





International Journal of Molecular Sciences

an Open Access Journal
by MDPI

Impact Factor 4.9
CiteScore 9.0
Indexed in PubMed



[mdpi.com/journal/
ijms](https://mdpi.com/journal/ijms)



About the Journal

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

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

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, PMC, MEDLINE, Embase, CAPlus / SciFinder, and other databases.

Journal Rank:

JCR - Q1 (Biochemistry and Molecular Biology) / CiteScore
- Q1 (Organic Chemistry)