Special Issue

Crosstalk between Circadian Rhythm and Diseases 2.0

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 apoptosisrelated 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

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manuscripts are peer-reviewed and a first decision is provided to authors approximately 37 days after submission; acceptance to publication is undertaken in 4.7 days (median values for papers published in this journal in the first half of 2025).