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Molecular Mechanisms of Circadian Clock Function in Plants

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Message from the Guest Editor

A comprehensive understanding of plant circadian system, its connection with other signaling pathways, and circadian processes that are temporally and spatially controlled by the clock are currently the main focus in plant circadian clock field. Circadian function relies on an intricate regulatory network in which essential clock components rhythmically regulate the expression and function of each other, and generate rhythms in multiple biological activities. Initial mechanistic studies on *Arabidopsis thaliana* have rapidly expanded to other crops of agronomic interest, opening interesting possibilities of translating the circadian knowledge into changes in crop productivity and resilience. New perspectives are also arising from studies on clock natural variation and evolution as well as on the specificities of the circadian function in cells, organs, and the circadian connection within the whole plant.

We welcome papers related but not limited to: transcriptional, post-transcriptional, and epigenetic mechanisms of clock regulation; processes regulated by the clock; and their connection with the predictable changes in light and temperature using *Arabidopsis* and other plant species.



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Special Issue



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Message from the Editor-in-Chief

Genes are central to our understanding of biology, and modern advances such as genomics and genome editing have maintained genetics as a vibrant, diverse and fastmoving field. There is a need for good quality, open access journals in this area, and the *Genes* team aims to provide expert manuscript handling, serious peer review, and rapid publication across the whole discipline of genetics. Starting in 2010, the journal is now well established and recognised.

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