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How the Timing of Biological Processes Is Controlled and Modified at the Molecular and Cellular Level? (3rd Edition)

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Deadline for manuscript submissions:
closed (31 December 2024)

Message from the Guest Editors

Dear Colleagues,

The correct timing of molecular and cellular events is critical for embryo development, cell/tissue homeostasis, and functions in all organisms. One example of this importance is the temporal regulation of cell cycle events. The cell cycle has to proceed in a well-defined time frame to assure, for example, the coordination between cell proliferation and the embryo developmental program. Another example is a circadian rhythm, which refers to any biological process occurring with an approximately 24-hour oscillation. As all aspects of cell physiology require a precise time control, the defects in this control may contribute to a number of diseases, including cancers, diabetes, and metabolic or behavioral disorders, and many more.

For this Special Issue, we invite research articles and review articles on all aspects of temporal regulation in cells and tissues, and particularly those which contribute to our understanding of the role of the time-dependent coordination between molecular pathways in physiological vs. pathological conditions.

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Message from the Editorial Board

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