

## Special Issue

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

### Message from the Guest Editors

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.**

### Guest Editors

Prof. Dr. Jacek Z. Kubiak

Dynamics and Mechanics of Epithelia Group, Faculty of Medicine,  
Institute of Genetics and Development of Rennes, University of Rennes,  
CNRS, UMR 6290, 35043 Rennes, France

Prof. Dr. Malgorzata Kloc

Transplant Immunology, The Houston Methodist Research Institute,  
Houston, TX 77030, USA

### Deadline for manuscript submissions

closed (31 December 2024)



## Biology

an Open Access Journal  
by MDPI

Impact Factor 3.5  
CiteScore 7.4  
Indexed in PubMed



[mdpi.com/si/194066](https://mdpi.com/si/194066)

*Biology*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[biology@mdpi.com](mailto:biology@mdpi.com)

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





# Biology

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.5  
CiteScore 7.4  
Indexed in PubMed



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



## About the Journal

### Message from the Editorial Board

A major strength of biological science is the diversity of approaches that biological scientists apply to their research problems. *Biology* reflects this diversity and brings together studies employing the varied experimental and theoretical approaches that are fueling biological discovery. *Biology*, the journal, is a fully peer-reviewed publication with a rapid and economical route to open access publication and is listed on PubMed. All articles are peer-reviewed and the editorial focus is on determining that the work is scientifically sound rather than trying to predict its future impact.

---

### Editors-in-Chief

Prof. Dr. Jukka Finne

Research Programme in Molecular and Integrative Biosciences, Faculty of Biological and Environmental Sciences, University of Helsinki, P.O. Box 56, FI-00014 Helsinki, Finland

Prof. Dr. Andrés Moya

Integrative Systems Biology Institute, University of Valencia and CSIC, 46980 Valencia, Spain

---

### Author Benefits

#### High Visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, PMC, PubAg, CAPus / SciFinder, and other databases.

#### Journal Rank:

JCR - Q1 (Biology) / CiteScore - Q1 (General Agricultural and Biological Sciences)

#### Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 17.4 days after submission; acceptance to publication is undertaken in 2.5 days (median values for papers published in this journal in the first half of 2025).