



# biology



an Open Access Journal by MDPI

## From Basics to Applications of Gene Regulatory Networks

Guest Editor:

### Dr. Thomas Ulas

Platform for Single Cell Genomics and Epigenomics (PRECISE),  
University of Bonn and Deutsches  
Zentrum für Neurodegenerative  
Erkrankungen e.V., 53127 Bonn,  
Germany

Deadline for manuscript  
submissions:

**15 June 2025**

### Message from the Guest Editor

Dear Colleagues,

Understanding how genes are regulated within cells is crucial in the field of cell biology. Gene regulatory networks play a central role in this process, dictating when and how genes are expressed, which in turn affects cellular functions and overall development. Investigating these networks has become essential for uncovering basic biological processes and their relevance to health and disease.

We are pleased to invite you to contribute to a Special Issue delving into the depths of gene regulatory networks and their applications. This Special Issue aims to explore the complexity of gene regulatory networks and investigate their role in various biological systems. Our goal is to provide insights on the complex structure of gene regulation in order to uncover new information about how cells operate and the processes underlying disease.

Dr. Thomas Ulas

*Guest Editor*



[mdpi.com/si/204969](https://mdpi.com/si/204969)

# Special Issue



an Open Access Journal by MDPI

## 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

## 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.

## 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, PubAg, CAPlus / SciFinder, and other databases.

**Journal Rank:** JCR - Q1 (Biology) / CiteScore - Q1 (General Agricultural and Biological Sciences)

## Contact Us

---

*Biology* Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/biology](http://mdpi.com/journal/biology)  
[biology@mdpi.com](mailto:biology@mdpi.com)  
[X@Biology\\_MDPI](https://twitter.com/Biology_MDPI)