

## Special Issue

# Epigenetic Modifications and Changes in Neurodegenerative Diseases

### Message from the Guest Editor

The global prevalence of neurodegenerative diseases (NDs) is dramatically increasing, making the identification of biomarkers for early diagnosis crucial. Evidence suggests that epigenetic mechanisms play a key role in the pathogenesis of these disorders.

Aberrant DNA methylation, altered histone modifications, and non-coding RNA expression have been observed in the brain tissues of NDs patients, with promising peripheral blood studies. Intense research is investigating the therapeutic efficacy of epigenetic compounds. This Special Issue aims to provide an updated overview of the epigenetics of NDs and the potential applicability of epigenetic therapy. Basic research articles aimed to identify altered epigenetic mechanisms underlying these disorders, research papers dealing with the potential of therapeutic approaches targeting epigenome, as well as articles addressing the contribution of environmental or early life factors to epigenetic changes are welcome. Updated reviews and systematic reviews are also invited to be submitted. I look forward to receiving your contributions.

### Guest Editor

Dr. Andrea Stocco

Medical Genetics Laboratories, Department of Translational Research and of New Surgical and Medical Technologies, University of Pisa, 56126 Pisa, Italy

### Deadline for manuscript submissions

closed (30 November 2024)



## Biology

an Open Access Journal  
by MDPI

Impact Factor 3.5  
CiteScore 7.4  
Indexed in PubMed



[mdpi.com/si/144495](https://mdpi.com/si/144495)

*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).