

Special Issue

Applications of Gene Expression Profiling in Human Disease

Message from the Guest Editor

Advances in gene expression profiling have transformed our understanding of human diseases by enabling comprehensive analyses of molecular signatures. This Special Issue aims to highlight recent progress in applying gene expression profiling to uncover disease mechanisms, identify diagnostic and prognostic biomarkers, and guide personalized therapy. Integrating bulk and single-cell RNA sequencing, spatial transcriptomics, and multi-omics approaches, we seek innovative studies that reveal molecular mechanisms, discover novel biomarkers, and support precision medicine development.

We welcome original research, reviews, and methodological studies on gene expression profiling in various diseases, including cancer, infections, immune disorders, metabolic syndromes, and neurological conditions. Studies offering translational insights, novel analytical methods, or cross-disciplinary perspectives are especially encouraged.

We look forward to your valuable contributions.

Guest Editor

Dr. Lipei Shao

Department of Transfusion Medicine, Center for Cellular Engineering,
National Institutes of Health, Bethesda, MD 20892, USA

Deadline for manuscript submissions

31 July 2026



Biology

an Open Access Journal
by MDPI

Impact Factor 3.5
CiteScore 7.4
Indexed in PubMed



mdpi.com/si/260380

Biology
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
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).