

Special Issue

Artificial Intelligence Research for Complex Biological Systems

Message from the Guest Editors

Advancements in intelligent computing have significantly propelled research in bioinformatics, computational systems biology, and related fields. These methodologies play a pivotal role in biological and medical research, analyzing single-cell and bulk omics data, elucidating mechanisms in cancer and neuroscience, and modeling complex biological systems. Single-cell omics data, with its complexity and high noise levels, highlights the need for intelligent computing techniques. The emergence of generative AI promises foundational frameworks for biological research. This Special Issue aims to showcase breakthroughs in these areas, inviting data-driven studies leveraging intelligent computing technologies.

Guest Editors

Dr. Yong Chen

Department of Biology and Biomedical Sciences, Rowan University,
Glassboro, NJ 08028, USA

Dr. Milana Frenkel-Morgenstern

Scojen Institute of Synthetic Biology, Reichman University, Hertsliya
4610101, Israel

Deadline for manuscript submissions

31 May 2026



Biology

an Open Access Journal
by MDPI

Impact Factor 3.5
CiteScore 7.4
Indexed in PubMed



mdpi.com/si/208205

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).