

Special Issue

Organ-on-a-Chip: Biology Meets Technology

Message from the Guest Editor

Organ-on-a-chip technology has revolutionized the fields of human biology, disease modeling, and drug discovery. These miniature models of human organs enable the precise simulation of their physiology, allowing researchers to study human physiology in the laboratory. Conventional models, including traditional cell cultures and animal models, lack human complexity and therefore lack predictability. By providing a more accurate representation of human physiology, organ-on-a-chip technology can accelerate the development of novel treatments and therapies. This not only provides new knowledge of complex biological systems but also lays a foundation for personalized medicine and more effective healthcare interventions. As this field continues to evolve, it shows great promise in transforming medical research and therapeutic development.

Guest Editor

Dr. Julia Mantaj

School of Applied and Health Sciences, London South Bank University,
London SE1 0AA, UK

Deadline for manuscript submissions

closed (31 December 2025)



Biology

an Open Access Journal
by MDPI

Impact Factor 3.5
CiteScore 7.4
Indexed in PubMed



mdpi.com/si/229142

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, CAPlus / 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 16.8 days after submission; acceptance to publication is undertaken in 2.9 days (median values for papers published in this journal in the second half of 2025).