Special Issue

Computational Methods in Biology Research

Message from the Guest Editors

With the increasing use of computation in biology, the field of computational biology has grown rapidly in the past decade. There are a variety of computational methods that can be used to analyze data. The three most common methods of analyzing data are statistical methods, machine learning methods, and mathematical modeling. Data generated by these methods can be analyzed to draw conclusions about a biological system. Statistical methods are used to analyze data that is relatively easy to interpret and are often used to analyze data that is produced by measurements. Machine learning methods are used to analyze data that is produced by simulations. Mathematical modeling is used to analyze data that is produced by mathematical descriptions of the system being studied. We will examine the latest developments in computational methods that are being used to investigate biological systems.

Guest Editors

Dr. Milan Toma

Department of Osteopathic Manipulative Medicine, College of Osteopathic Medicine, New York Institute of Technology, Old Westbury Campus, Northern Boulevard, Old Westbury, NY 11568-8000, USA

Dr. Chi Wei Ong

Agency for Science, Technology and Research (A*STAR), Singapore, Singapore

Deadline for manuscript submissions

closed (1 January 2024)

Biology

an Open Access Journal by MDPI

Impact Factor 4.3
CiteScore 7.3
Indexed in PubMed

mdpi.com/si/166045

Biology
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
biology@mdpi.com

mdpi.com/journal/biology

Biology

an Open Access Journal by MDPI

Impact Factor 4.3
CiteScore 7.3
Indexed in PubMed

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 14.2 days after submission; acceptance to publication is undertaken in 2.6 days (median values for papers published in this journal in the first half of 2026).

MDPI