

Special Issue

Genetics and Cell Biology in Crop Improvement

Message from the Guest Editors

This Special Issue emphasizes the integration of advanced genetic and cellular biology tools to drive crop improvement. Techniques such as synthetic biology, gene editing, metabolic engineering, and molecular breeding are instrumental in developing plant varieties with superior traits, including higher yields, enhanced resistance to diseases, improved nutritional content, and greater tolerance to environmental stresses. A deeper exploration of the genetic and cellular mechanisms underlying plant growth and development is essential for achieving these goals.

Guest Editors

Dr. Zhiyong Li

Prof. Dr. Jian Zhang

Dr. Jie Huang

Dr. Xixi Liu

Deadline for manuscript submissions

30 November 2026



Biology

an Open Access Journal
by MDPI

Impact Factor 3.5
CiteScore 7.3
Indexed in PubMed



mdpi.com/si/225076

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 7.3
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).