

Special Issue

Advancing Crop Nutritional Quality Through Genomic Approaches

Message from the Guest Editor

Advancing crop nutritional quality is a critical goal to address the growing global demand for sustainable and nutritious food. This Special Issue, entitled "Advancing Crop Nutritional Quality Through Genomic Approaches", aims to highlight cutting-edge research at the intersection of genomics and crop improvement. I invite contributions that explore innovative strategies used to enhance the nutritional profiles of crops, including studies on gene editing, genome-wide association studies (GWASs), transcriptomics, epigenomics, and metabolomics. This Special Issue aims to focus on leveraging multi-omics data to improve key traits such as starch, oil, protein, vitamin, and mineral content while addressing challenges posed by environmental stress and resource limitations. By uniting multidisciplinary approaches, this Special Issue seeks to provide actionable insights into improving crop quality, contributing to global food security, and supporting sustainable agricultural practices. We welcome the submission of original research articles, reviews, and perspectives that contribute to this vital field of study.

Guest Editor

Dr. Gen Xu

Department of Agronomy and Horticulture, University of Nebraska-Lincoln, Lincoln, NE 68583, USA

Deadline for manuscript submissions

30 June 2026



Biology

an Open Access Journal
by MDPI

Impact Factor 3.5
CiteScore 7.4
Indexed in PubMed



mdpi.com/si/227985

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).