

Special Issue

Plant Genomics and Genome Editing 2.0

Message from the Guest Editor

Scientists are able to precisely edit genomes efficiently and cost-effectively thanks to the many high-quality reference genome sequences that are currently available. Zinc finger nucleases (ZFNs), transcription activator-like effector-based nucleases (TALENs), and the clustered regularly interspaced short palindromic repeats (CRISPR)-Cas system have been successfully employed to edit numerous individual genes in many organisms, and CRISPR-edited plants are now on the market. The CRISPR-Cas system has been widely used to edit genetic elements in genomes for various applications—not only crop improvement, but also many gene therapy studies. In this Special Issue, we cordially invite scientists from across the world to contribute their cutting-edge research on plant genomics and genome editing. We welcome the submission of original research articles and short communications contributing to the advancement of genomics and genome editing, including techniques, applications, trait development, and enabling database and computational software. We are also inviting scientists to write reviews for this Special Issue.

Guest Editor

Prof. Dr. Hikmet Budak

Director of Agriculture Programs, Arizona Western College, P.O. Box 929, Yuma, AZ 85366, USA

Deadline for manuscript submissions

closed (31 July 2023)



International Journal of Molecular Sciences

an Open Access Journal
by MDPI

Impact Factor 4.9
CiteScore 9.0
Indexed in PubMed



mdpi.com/si/118372

*International Journal of
Molecular Sciences*
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
ijms@mdpi.com

[mdpi.com/journal/
ijms](https://mdpi.com/journal/ijms)





International Journal of Molecular Sciences

an Open Access Journal
by MDPI

Impact Factor 4.9
CiteScore 9.0
Indexed in PubMed



[mdpi.com/journal/
ijms](https://mdpi.com/journal/ijms)



About the Journal

Message from the Editor-in-Chief

The International Journal of Molecular Sciences (*IJMS*, ISSN 1422-0067) is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, molecular biophysics, molecular medicine, and all aspects of molecular research in chemistry. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

Editor-in-Chief

Prof. Dr. Maurizio Battino

Department of Odontostomatologic and Specialized Clinical Sciences,
Sez-Biochimica, Faculty of Medicine, Università Politecnica delle
Marche, Via Ranieri 65, 60100 Ancona, Italy

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, PMC, MEDLINE, Embase, CAPlus / SciFinder, and other databases.

Journal Rank:

JCR - Q1 (Biochemistry and Molecular Biology) / CiteScore
- Q1 (Organic Chemistry)