

Special Issue

Advances in Omics of Chili Pepper

Message from the Guest Editors

Chili peppers, belonging to the *Capsicum* genus, hold significant importance as vegetables valued for their culinary, medicinal, and ornamental purposes. Additionally, they serve as an exceptional model for studying gene regulation and plant secondary metabolism. With reference genomes for three species, tens of genome assemblies, thousands of gene expression studies, at least forty-five clinical trials, and a vast collection of other publicly available resources at the NCBI and other data repositories, this crop stands out as one of the most extensively and comprehensively documented species within the Solanaceae family. This Special Issue aims to contribute to the comprehensive understanding of the molecular aspects of chili pepper biology. It will encompass advances in the understanding of their genomes and molecular phenotypes, including the expression of genes, metabolites, and proteins, as well as the mechanisms involved in regulating these traits. The primary focus is to present an up-to-date panorama of integrative omics advances related to this crop. Nevertheless, we will also consider relevant progress in specific molecular aspects of *Capsicum*.

Guest Editors

Dr. Octavio Martínez

Unidad de Genómica Avanzada (Langebio), Centro de Investigación y de Estudios Avanzados del Instituto Politécnico Nacional (Cinvestav), Irapuato 36824, Mexico

Prof. Dr. Neftalí Ochoa-Alejo

Departamento de Ingeniería Genética, Unidad Irapuato, Centro de Investigación y de Estudios Avanzados del Instituto Politécnico Nacional, Irapuato 36824, Guanajuato, Mexico

Deadline for manuscript submissions

closed (31 May 2024)



Plants

an Open Access Journal
by MDPI

Impact Factor 4.1
CiteScore 7.6
Indexed in PubMed



mdpi.com/si/180948

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

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





Plants

an Open Access Journal
by MDPI

Impact Factor 4.1
CiteScore 7.6
Indexed in PubMed



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



About the Journal

Message from the Editor-in-Chief

Plants is an open access journal which provides an advanced forum for research findings in areas related to plant function, its physiology, biology, taxonomy, stresses, and its interactions with other organisms. It publishes original research articles, reviews, reports, conference proceedings (peer reviewed full articles) and communications. In original research papers, it is important that full experimental details are provided. We also encourage timely reviews and commentaries on topics of interest to the plant research community.

Editor-in-Chief

Prof. Dr. Dilantha Fernando
Department of Plant Science, University of Manitoba, Winnipeg, MB
R3T 2N2, Canada

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, PubAg, AGRIS, CAPlus / SciFinder, and other databases.

Journal Rank:

JCR - Q1 (Plant Sciences) / CiteScore - Q1 (Ecology, Evolution, Behavior and Systematics)