# **Special Issue**

# Functional Genomics of Cucurbit Species

## Message from the Guest Editors

The Cucurbitaceae family contains highly nutritious and morphologically diverse crops. Recent years have seen dramatic advances in the development and application of genomic tools for cucurbit species, including genome assemblies and annotations; the construction of pangenomes: the development of high-throughput genotyping tools such as SNP, tilling and mutant platforms; the genomic analyses of germplasm collections; the identification of SNPs and structural variants; the use of bioinformatic tools such as genomewide association studies (GWAS) and genomic prediction; fine genetic mapping and molecular markerassisted selection (MAS); and the development of new transformation and gene editing methods. These tools provide us with the opportunity to determine the genetics behind important production, quality, and developmental traits. This Special Issue seeks to highlight the progress being made in cucurbit genomics. We invite the submission of original research and review articles dealing with any aspect of the development and/or application of functional genomic tools for cucurbit species.

#### **Guest Editors**

Prof. Dr. Rebecca Grumet

Department of Horticulture, and Graduate Program in Plant Breeding, Genetics and Biotechnology, Michigan State University, East Lansing, MI 48824, USA

Prof. Dr. Feishi Luan

Key Laboratory of Biology and Genetic Improvement of Horticulture Crops (Northeast Region), Ministry of Agriculture and Rural Affairs, Northeast Agricultural University, Harbin, China

### Deadline for manuscript submissions

28 February 2026



# **Plants**

an Open Access Journal by MDPI

Impact Factor 4.1
CiteScore 7.6
Indexed in PubMed



mdpi.com/si/241656

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

mdpi.com/journal/plants





# **Plants**

an Open Access Journal by MDPI

Impact Factor 4.1 CiteScore 7.6 Indexed in PubMed



## **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)

