



Advanced Omics Technologies and Regulatory Mechanisms of Ornamental Plants

Guest Editors:

Prof. Dr. Chao Ma

Dr. Daofeng Liu

Dr. Wen Chen

Dr. Lin Ouyang

Deadline for manuscript
submissions:
5 July 2026

Message from the Guest Editors

With the advancements in omics sciences, such as genomics, transcriptomics, proteomics, metabolomics and phenomics, these modern technologies provide new methods for studying plant molecular mechanisms. For ornamental plants, the study usually focused on the regulatory mechanism analysis using omics technologies.

The scope of this Special Issue includes a series of contents, such as genomics, transcriptomics, proteomics, metabolomics and phenomics, single omics or multi omics analysis of ornamental plants, as well as epigenomics (epigenomics, epitranscriptomics and epiproteomics) and interactomics (e.g., DNA–RNA interactomics, RNA–RNA interactomics, DNA–protein interactomics, RNA–protein interactomics, protein–protein interactomics and protein–metabolite interactomics), immunomics and microbiomics related to the regulatory mechanisms of ornamental plants. This Special Issue focuses on genetic traits related to flower color, floral fragrance, abiotic and biotic stress, and other characteristics of ornamental plants. This Special Issue also encourages experimental verification of ornamental plants' physiological and molecular regulatory mechanisms.





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Luigi De Bellis

Department of Biological and
Environmental Sciences and
Technologies (DiSTeBA), Salento
University, 73100 Lecce, Italy

Message from the Editor-in-Chief

Horticultural plants and their products provide sustenance, health, and beauty. A confluence of factors is putting increasing pressure on horticultural production to evolve, and innovative research is addressing these challenges. *Horticulturae* provides a venue to communicate research results in a rapid manner with open access, allowing everyone the opportunity to stay abreast of leading research addressing horticulture. I invite you to consider publishing the results of your research in this high quality, peer-reviewed journal.

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), PubAg, AGRIS, FSTA, and other databases.

Journal Rank: JCR - Q1 (Horticulture) / CiteScore - Q1 (Horticulture)

Contact Us

Horticulturae Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/horticulturae
horticulturae@mdpi.com
X@Horticul_MDPI