

# Special Issue

## Breeding of Ornamental Plants –Genetic Resources, New Challenges and Prospects

### Message from the Guest Editor

In recent years, the outlook on ornamental plants has undergone many changes, which has also inextricably affected the approach to their breeding. It is therefore necessary to preserve the existing gene pool and incorporate new gene sources into breeding work. The direction of breeding new cultivars should primarily respond to new challenges for horticulture and the environment. These include climate change, extreme weather events, the possibility of ecological and organic cultivation, and the increasing demand for plants that tolerate urban conditions. A second aspect is the special needs of urban gardening, e.g., well-being, street foods, food use, biodiversity, and ecology services. Others include the ability of phytoremediation and utilization of pollution, especially air dust, heavy metal utilization, and the improvement of the urban microclimate. The proposed Special Issue aims to present advanced studies, methods, tools, and innovations in the field of breeding of ornamentals of gene resources in new challenges. We hope to receive your contributions so as to share them with the community of researchers, students, and technicians. Thanks for your favorable consideration.

### Guest Editor

Dr. Marta Monder

Section of Ornamental Plants, Institute of Horticultural Sciences,  
Warsaw University of Life Sciences (WULS), 159 Nowoursynowska Str.,  
02-776 Warsaw, Poland

### Deadline for manuscript submissions

closed (15 March 2024)



# Horticulturae

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.0  
CiteScore 5.1



[mdpi.com/si/137125](https://mdpi.com/si/137125)

*Horticulturae*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[horticulturae@mdpi.com](mailto:horticulturae@mdpi.com)

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





# Horticulturae

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.0  
CiteScore 5.1



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



## About the Journal

### 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.

---

### Editor-in-Chief

Prof. Dr. Luigi De Bellis  
Department of Biological and Environmental Sciences and  
Technologies (DiSTeBA), Salento University, Lecce, 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), PubAg, AGRIS, FSTA, and other databases.

#### Journal Rank:

JCR - Q1 (Horticulture) / CiteScore - Q1 (Horticulture)