

Special Issue

Enhancing Adaptation of Horticultural Crops to Climate Change Challenges

Message from the Guest Editors

Horticulture is fundamental to world subsistence, and it plays a structural role at the cultural, social, and economic levels of the world. Each horticultural species requires optimal climatic and meteorological conditions for its development, yield, and quality of its products.

Climate change may therefore exert a significant impact on the subsistence of these horticultural crops.

According to various records, historical trends have already indicated an increase in average temperatures and changes in rainfall patterns. In addition, various climate scenarios have suggested that these conditions will intensify. It is crucial to understand the evolution of the climate and the possible impacts it has, and will have, on horticultural crops. Therefore, this Special Issue entitled “Enhancing Adaptation of Horticultural Crops to Climate Change Challenges” welcomes studies that highlight the evolution of the climate, the climatic needs of horticultural crops, the possible impacts of climate change on horticulture, and adaptation and mitigation measures in the face of climate challenges.

Guest Editors

Dr. Helder José Chaves Fraga

Centre for the Research and Technology of Agro-Environmental and Biological Sciences (CITAB), Institute for Innovation, Capacity Building, and Sustainability of Agri-Food Production (Inov4Agro), Universidade de Trás-os-Montes e Alto Douro (UTAD), 5000-801 Vila Real, Portugal

Dr. Teresa R. Freitas

Centre for the Research and Technology of Agro-Environmental and Biological Sciences (CITAB), Institute for Innovation, Capacity building and Sustainability of agri-food Production (Ino4Agro), Universidade of Trás-os-Montes and Alto Douro (UTAD), 5000-801 Vila Real, Portugal

Deadline for manuscript submissions

closed (19 September 2025)



Horticulturae

an Open Access Journal
by MDPI

Impact Factor 3.4
CiteScore 6.1



mdpi.com/si/207312

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

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





Horticulturae

an Open Access Journal
by MDPI

Impact Factor 3.4
CiteScore 6.1



[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, 73100 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)