



In Vitro Technology and Micropropagated Plants

Guest Editors:

Dr. Alicja Tymoszuk

Laboratory of Ornamental Plants
and Vegetable Crops, Faculty of
Agriculture and Biotechnology,
Bydgoszcz University of Science
and Technology, Bernardyńska 6,
85-029 Bydgoszcz, Poland

Dr. Dariusz Kulus

Laboratory of Ornamental Plants
and Vegetable Crops, Faculty of
Agriculture and Biotechnology,
Bydgoszcz University of Science
and Technology, Bernardyńska 6,
85-029 Bydgoszcz, Poland

Deadline for manuscript
submissions:

closed (31 August 2023)

Message from the Guest Editors

Dear Colleagues,

The development of modern horticulture is strongly associated with the improvement of plant micropropagation technologies and the production of high-quality ex vitro plants. Tissue cultures are a source of healthy and true-to-type plant material for further cultivation under covers or in field. They are also used for breeding purposes, germplasm conservation, disease elimination, and the production of phytochemicals. The proposed Special Issue aims to present the results of studies focused on the development, improvement, and usage of plant tissue culture systems for horticultural purposes. Potential topics include, but are not limited to:

- Fundamental research on molecular and physiological responses of in vitro isolated plant cells and tissues
- Micropropagation of ornamental, vegetable, fruit, and herbal plants.
- Tissue culture in breeding, conservation and long-term storage of horticultural plants
- Media components in plant tissue cultures
- Physical factors and new tools in plant tissue cultures
- Metabolites production in plant tissue culture systems
- Diseases elimination by in vitro techniques
- Contaminations in plant tissue culture and their elimination





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Luigi De Bellis

Department of Biological and Environmental Sciences and Technologies, Università del Salento, Centro Ecotekne, Via Provinciale Lecce Monteroni, 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 - Q2 (*Horticulture*)

Contact Us

Horticulturae Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

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

mdpi.com/journal/horticulturae
horticulturae@mdpi.com
[X@Horticult_MDP](https://twitter.com/Horticult_MDP)