horticulturae

an Open Access Journal by MDPI

IMPACT FACTOR 3.0

CITESCORE 5.1

Tissue Culture Techniques and Molecular Markers of Horticultural Plants

Guest Editors:

Dr. Rytis Rugienius
Department of Orchard Plant Genetics and Biotechnology, Institute of Horticulture, Lithuanian Research Centre for Agriculture and Forestry, 54333 Babtai, Lithuania

Dr. Audrius Sasnauskas
Department of Orchard Plant Genetics and Biotechnology, Institute of Horticulture, Lithuanian Research Centre for Agriculture and Forestry, 54333 Babtai, Lithuania

Dr. Akvile Virsile
Lithuanian Research Centre for Agriculture and Forestry, Institute of Horticulture, Kauno Str. 30, 54333 Babtai, Lithuania

Deadline for manuscript submissions:
20 August 2025

mdpi.com/si/192449

Message from the Guest Editors

Dear Colleagues,

Micropropagation or in vitro technologies and marker-assisted selection are classic areas of biotechnology that have proven their worth over the past half century and continue to advance today. There are very few in vitro techniques that work well for all genotypes. Often, more advanced technologies need to be found for specific recalcitrant genotypes. Here, advances in genomics, transcriptomics, proteomics and metabolomics provide significant new opportunities. This demonstrates the interrelationships of different plant systems under various stresses and physiological changes and makes it possible to find new high-throughput genetic markers related to valuable traits. A breakthrough in the use and application of molecular markers for breeding and fundamental research can only be expected when the markers cover the whole genome and different genetic systems in a wide and comprehensive manner.

We are pleased to invite you to submit papers for the Special Issue, which aims to present the latest techniques in plant tissue culture and achievements of molecular markers research and applications.

Dr. Rytis Rugienius
Dr. Audrius Sasnauskas
Dr. Akvile Virsile
Guest Editors

Special Issue

horticulturae

IMPACT FACTOR 3.0

CITESCORE 5.1

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, 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