Special Issue

In Vitro Propagation and Biotechnology of Horticultural Plants

Message from the Guest Editors

In vitro plant tissue cultures and the recent related biotechnologies are assuming an increasing importance in the propagation of horticultural and ornamental species. Private agricultural companies are approaching the scientific world, understanding its importance, asking to solve specific problems. The production of new hybrids of interest can be supported by several in vitro approaches, such as embryo rescue, somatic embryogenesis and haploid and doubled haploid technology. Furthermore, micropropagation can be successfully applied to maintain and multiply endemic or rare plants, or plants with unique ornamental and/or horticultural characteristics. It is also possible to recover varieties that are disease and pest free. The identification of efficient regeneration protocols is required as the first fundamental step to be applied in genome editing approaches, with the scope, for example, to modulate stress resistance genes, in vegetable, ornamental or aromatic crops. The aim of the Special Issue is to report innovative research, tools, approaches and techniques in the applications of *in vitro* propagation techniques.

Guest Editors

Dr. Andrea Copetta

CREA Research Centre for Vegetable and Ornamental Crops, Corso degli Inglesi 508, 18038 Sanremo, Imperia, Italy

Dr. Marco Savona

CREA Research Centre for Vegetable and Ornamental Crops, Corso degli Inglesi 508, 18038 Sanremo, Imperia, Italy

Deadline for manuscript submissions

closed (31 August 2023)

Horticulturae

an Open Access Journal by MDPI

Impact Factor 3.0
CiteScore 5.1

mdpi.com/si/107660

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

mdpi.com/journal/horticulturae

Horticulturae

an Open Access Journal by MDPI

Impact Factor 3.0
CiteScore 5.1

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)

MDPI