

Special Issue

Phytotoxicity of Heavy Metals in Horticultural Plants and Security

Message from the Guest Editors

Horticulture crops are very important in human nutrition and are an important source of nutrients like carbohydrates, proteins, organic acids, vitamins and mineral elements. The current challenges, such as climate change, the growing world population and soil degradation, together with trends like the increase in urban agriculture, can lead to the use of marginal or contaminated lands and irrigation waters, to fulfil the growing needs of horticultural products. It is thus necessary to evaluate how horticultural plants cope with contaminants like heavy metals, characterizing their acclimation mechanisms. This Special Issue welcomes studies regarding the effect of different heavy metals in different horticultural crops, including research in relation to uptake, accumulation and tolerance capacity, oxidative stress and antioxidative response, induced defence mechanisms, toxicity effects and food chain contamination.

Guest Editors

Prof. Dr. Luisa Louro Martins

Instituto Superior de Agronomia, Universidade de Lisboa, Lisbon, Portugal

Prof. Dr. Miguel Pedro Mourato

Instituto Superior de Agronomia, Universidade de Lisboa, 1349-017 Lisbon, Portugal

Deadline for manuscript submissions

closed (30 June 2022)



Horticulturae

an Open Access Journal
by MDPI

Impact Factor 3.4
CiteScore 6.1



mdpi.com/si/62087

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)