



Grapevine Nutrition and Root Symbiotic Relations

Guest Editor:

Prof. Dr. Nikolaos A. Nikolaou

Department of Agriculture,
Aristotle University of
Thessaloniki, Faculty of
Agronomy Forestry and Natural
Environment, 54124 Thessaloniki,
Greece

Deadline for manuscript
submissions:

closed (31 July 2021)

Message from the Guest Editor

Grapevines are one of the most important fruit crops in the world. Vine development, yield, and grape quality depend on many variables related to the physical and chemical characteristics and biology of the soil. Optimizing the vine mineral nutrition has always been an important challenge for grape and wine growers. On the other hand, climate change, particularly in regard to temperature, is considered as a major challenge for crop production. The rhizosphere region is a highly favorable habitat for the proliferation and metabolisms of numerous types of microorganisms. Among them, mycorrhizal fungi can influence mineral uptake, water supply, and grape quality. Root mycorrhizal colonization have a beneficial effect not only on vine growth, but also on grape and wine quality. This Special Issue will focus on grapevine nutrition and root symbiotic relations, covering all related topics including vine response to nutrient deficiency and toxicity, soil salinity, the effect of mycorrhizal colonization on diverse enzyme activity as well as their effects on grape and wine quality.





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, Grosspeteranlage 5
4052 Basel, Switzerland

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

mdpi.com/journal/horticulturae
horticulturae@mdpi.com
X@Horticul_MDPI