



Effects of Soil Fertility and Plant Growth Promoters on Horticultural Crops

Guest Editors:

Dr. Alessandra Moncada

Department of Agricultural, Food and Forestry Sciences, University of Palermo, Viale delle Scienze, 90128 Palermo, Italy

Dr. Filippo Vetrano

Department of Agricultural, Food and Forestry Sciences, University of Palermo, Viale delle Scienze, 90128 Palermo, Italy

Deadline for manuscript submissions:

closed (30 April 2024)

Message from the Guest Editors

This Special Issue aims to clarify the role played by plant growth promoters, as well as chemical, biological, and physical soil fertility, on crop growth, development, and yield in a sustainable horticultural system. Plant growth promoters can be microbial and non-microbial. They enhance the all-round growth of the crops by regulating their metabolic activities by increasing seed germination speed, root growth, leaf quality, vigor, and the resilience of crops to biotic and abiotic stresses. The increase in growth leads to a better assimilation of nutrients, quality of the final yield, and productivity. Plant growth promoters are also known as soil conditioners; this is due to their positive effects on soil quality, with respect to biological and physical fertility. Therefore, the Special Issue solicits the collection of research articles, reviews, short notes, and opinion articles, focusing on the effects and the mode of action of plant growth promoters (microbial and not microbial, from organic and synthetic sources); their impact on soil fertility; and their effectiveness in improving plant growth, yield, quality, and tolerance to biotic and abiotic stresses.





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Leslie A. Weston

Graham Centre for Agricultural
Innovation, Charles Sturt
University, Wagga Wagga, NSW
2678, Australia

Message from the Editor-in-Chief

Agronomy draws together researchers from diverse areas of agricultural research with a common aim of enhancing agricultural productivity globally. The journal provides unlimited free access to all those interested in advancing agricultural science from both the research and general community. Papers are released immediately after acceptance through the internet. *Agronomy* is supported by our authors and their institutes through low article processing charges (APC) for accepted papers. We hope you will support the journal by becoming one of our authors.

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, and other databases.

Journal Rank: JCR - Q1 (*Agronomy*) / CiteScore - Q1 (*Agronomy and Crop Science*)

Contact Us

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

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

mdpi.com/journal/agronomy
agronomy@mdpi.com
[X@Agronomy_Mdpi](https://twitter.com/Agronomy_Mdpi)