

Special Issue

Horticultural Crop Secondary Metabolism

Message from the Guest Editors

Secondary metabolites are products not directly involved in the development, normal growth, and reproduction of the producing plants, but are essential for their interactions with the surrounding environment. Different classes of secondary metabolites exist according to their structures, and such chemical diversity corresponds to different biological roles. Plants reserve energy and exhibit finely tuned biosynthetic and regulative pathways for their synthesis. The characterization of such compounds and the elucidation of their biosynthetic pathways and related regulation networks would be of key importance to manipulate and drive the production and the accumulation of such metabolites using genetic engineering as well as more conventional breeding approaches to produce biofortified crops, as well as boosting plant molecular farming strategies. This Special Issue of *Agronomy* therefore welcomes original research articles as well as reviews focusing on the characterization of secondary metabolites, their ecological roles including the interactions of the plants with the environment and their regulation, as well as strategies for bioaccumulation.

Guest Editors

Dr. Marco Pietrella

CREA Research Centre for Olive, Fruit and Citrus Crops, Via La Canapona 1 bis, 47121 Forlì, FC, Italy

Dr. Alessandro Nicolìa

Council for Agricultural Research and Economics (CREA), Research Centre for Vegetable and Ornamental Crops (CREA-OF), Pontecagnano, Italy

Deadline for manuscript submissions

closed (15 April 2024)



Agronomy

an Open Access Journal
by MDPI

Impact Factor 3.4
CiteScore 6.7



mdpi.com/si/164053

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

[mdpi.com/journal/
agronomy](https://mdpi.com/journal/agronomy)





Agronomy

an Open Access Journal
by MDPI

Impact Factor 3.4
CiteScore 6.7



[mdpi.com/journal/
agronomy](https://mdpi.com/journal/agronomy)



About the Journal

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.

Editor-in-Chief

Prof. Dr. Leslie A. Weston

Gulbali Centre for Agriculture, Water and Environment Research,
Charles Sturt University, Wagga Wagga, NSW 2678, Australia

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), GEOBASE, PubAg, AGRIS, and other databases.

Journal Rank:

JCR - Q1 (Agronomy) / CiteScore - Q1 (Agronomy and Crop Science)