



Advances in Understanding Allelopathic Interactions between Weeds and Crops

Guest Editors:

Dr. Changxun Fang

Fujian Provincial Key Laboratory of Agroecological Processing and Safety Monitoring, College of Life Sciences, Fujian Agriculture and Forestry University, Fuzhou 350002, China

Prof. Dr. Yongjia Zhong

Root Biology Center, Haixia Institute of Science and Technology, Fujian Agriculture and Forestry University, Fuzhou 350002, China

Deadline for manuscript submissions:

closed (31 January 2023)

Message from the Guest Editors

Allelopathy refers to the impact of plants upon neighboring plants and/or their associated microflora and/or macrofauna by the production of allelochemicals; often, these allelochemicals typically interfere with plant growth, but they may also result in the stimulation of growth. The field of allelopathy addresses research on the allelochemicals regulating these interactions, as well as the organisms producing these chemicals, or those directly or indirectly affected by these associations. The coexistence of crops and weed in the field evokes independent reactions between these two species; particularly, the respective exudates from weed and crops arouse allelopathic responses in crops and detoxification in weed. This Special Issue mainly focuses on the allelopathic interactions between weed and crops—including allelochemical molecule–protein interactions and the transcriptome and proteome responses in plants—together with the belowground interactions between these species, and aims to uncover the communication and reaction mechanisms of crop–weed coexistence.





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Leslie A. Weston

Gulbali Centre for Agriculture,
Water and Environment
Research, 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 (Plant Sciences) / CiteScore - Q1 (Agronomy and Crop Science)

Contact Us

Agronomy Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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

mdpi.com/journal/agronomy
agronomy@mdpi.com
X@Agronomy_Mdpi