





an Open Access Journal by MDPI

## The Future of Weed Science—Novel Approaches to Weed Management

Guest Editors:

#### Dr. Ilias Travlos

Department of Crop Science, Agricultural University of Athens, 75. Iera Odos str., GR11855 Athens, Greece

#### Dr. Aurelio Scavo

Department of Veterinary Sciences, University of Messina, Polo Universitario dell'Annunziata, 98168 Messina, Italy

### **Dr. Panagiotis Kanatas**

Department of Crop Science, University of Patras, P.D. 407/80, 30200 Mesolonghi, Greece

Deadline for manuscript submissions:

closed (14 April 2023)

## Message from the Guest Editors

The European Community Directive 128/2009 on the sustainable use of pesticides pays special attention to crop health with the minimum disruption of agro-ecosystems and reduced risks for human health and the environment. Moreover, common agricultural policies like EU Green Deal will face the challenge of a significant reduction of chemical control at the lowest necessary levels. In such an era, there is a clear need for novel approaches to weed management and new technologies are expected to play a pivotal role.

- 1. Agroecological weed management
- 2. Cultural practices (cover crops, intercropping, crop rotation, false seedbed, etc.) and their role in future weed science
- 3. Remote sensing-based methods and frameworks to reduce pesticide inputs in agriculture.
- 4. Decision Support Systems (DSS) to enhance weed management in the long-term period
- 5. Improving novel weed management techniques through evaluation of robotics, UAV, deep learning, multispectral sensors etc.
- 6. Nanotechnology approaches and weed control
- 7. RNAi technology and herbicide tolerant crops
- 8. Optimization of herbicide use and integrated weed management approaches
- 9. The potential role of allelopathy



Special<sub>sue</sub> mdpi.com/si/114214







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**