



Pesticide Resistance in Agricultural Practices

Guest Editors:

Dr. Jingchao Chen

Institute of Plant Protection,
Chinese Academy of Agricultural
Sciences; Beijing 100193, China

Prof. Dr. Hailan Cui

Institute of Plant Protection,
Chinese Academy of Agricultural
Sciences, Beijing 100193, China

Deadline for manuscript
submissions:

10 September 2024

Message from the Guest Editors

Dear Colleagues,

The management of weeds relies heavily on herbicides but results in the development of resistance. Many scientific studies were carried out to understand herbicide resistance and shared with the public. However, more knowledge on herbicide resistance is still needed, especially using genomics, transcriptomics, and other omics techniques, as well as monitoring measures, and control strategies of resistant weeds that depend on clear resistance mechanisms.

The aim and scope of this Special Issue, titled “Pesticide Resistance in Agricultural Practices”, are to elucidate the biochemical and molecular resistance mechanisms of weeds to herbicides, especially using omics techniques and novel weed control strategies that have never been reported. Topics of interest include, but are not limited to, the following:

1. Target-site/non-target-site herbicide resistance;
2. Molecular basis of evolution in herbicide resistance;
3. Fitness traits of herbicide-resistant weeds;
4. Omics techniques for weeds;
5. Novel approaches for weed management strategies.

We welcome novel research articles and reviews addressing all related topics.





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Les Copeland

Sydney Institute of Agriculture,
School of Life and Environmental
Sciences, The University of
Sydney, Sydney, NSW 2006,
Australia

Message from the Editor-in-Chief

Agriculture (ISSN 2077-0472) is an international, crossdisciplinary and scholarly open access journal on the science and technology of crop and animal production, and management of the natural resource base for agricultural production. *Agriculture* is published in an open access format – research articles, reviews and other contents are released on the internet immediately after acceptance. The scientific community and the public have unlimited and free access to the content as soon as it is published.

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, RePEc, and other databases.

Journal Rank: JCR - Q1 (*Agronomy*) / CiteScore - Q2 (*Plant Science*)

Contact Us

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

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

mdpi.com/journal/agriculture
agriculture@mdpi.com
[X@AgricultureMdpi](https://twitter.com/AgricultureMdpi)