

Special Issue

Ecology, Evolution, and Management of Agricultural Weeds

Message from the Guest Editors

Agricultural weeds, including invasive species, pose significant challenges to global food security by competing with crops for resources, altering ecosystem functions, and evolving resistance to control measures. Understanding their ecological dynamics, evolutionary adaptations, and sustainable management strategies is critical in the context of climate change and intensified agriculture. We welcome original research articles, reviews, and case studies covering (but not limited to) the following:

- **Ecological Mechanisms:** Weed-crop interactions, soil microbiome influences, and weed community assembly under different agricultural practices.
- **Evolutionary Adaptations:** Genetic basis of herbicide resistance, rapid evolution in response to management, and invasiveness traits.
- **Integrated Management:** Innovations in biological control, precision agriculture, crop diversification, and traditional cultural practices to suppress weeds sustainably.
- **Invasive Weeds:** Spread dynamics, ecological impacts, and region-specific management strategies for invasive species.
- **Policy and Socioeconomics:** Farmer decision-making, cost-benefit analyses of management options, and policy frameworks for weed control.

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About the Journal

Message from the Editor-in-Chief

Agriculture (ISSN 2077-0472) is an international, scholarly and scientific open access journal publishing peer-reviewed research papers, review articles, communications and short notes that reflect the breadth and interdisciplinarity of agriculture.

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