

Special Issue

Current Advances in Weed Biology, Ecology and Management

Message from the Guest Editors

Weeds are the most serious threat to agricultural crops and cause great loss to crop production. In recent decades, weed control strategies become more reliant on herbicides, and causes a shift in weed community composition and the evolution of herbicide resistance.

The biology of weed species and population ecology affect the adaptive evolution of weeds and remain the foundation for the development of integrated weed management strategies. However, more knowledge about gene expression, the molecular basis of herbicide-resistant weeds, and evolutionary genetics are still needed to better elucidate the biological bases. In this Special Issue, original research articles and reviews are welcome. Research areas may include (but are not limited to) the following: seed dormancy and germination, growth biology, molecular basis of weed evolution, population ecology, mechanism of herbicide resistance in weeds, and novel weed control strategies. We look forward to receiving your contributions.

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A major strength of biological science is the diversity of approaches that biological scientists apply to their research problems. *Biology* reflects this diversity and brings together studies employing the varied experimental and theoretical approaches that are fueling biological discovery. *Biology*, the journal, is a fully peer-reviewed publication with a rapid and economical route to open access publication and is listed on PubMed. All articles are peer-reviewed and the editorial focus is on determining that the work is scientifically sound rather than trying to predict its future impact.

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