Special Issue

The Future of Weed Science—Novel Approaches to Weed Management

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.

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

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Deadline for manuscript submissions

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