



Weed Management in Sustainable Agricultural Production

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Message from the Guest Editors

Dear Colleagues,

At present, weed scientists, biologists, ecologists, and even pharmacists perceive weeds as land plants with particular biological features, with different ecological adaptation capacity and with peculiar damaging or pharmaceutically relevant properties.

Weeds compete with cultivated plants, along with pathogens, some insects and animals, and are collectively considered as natural stressors or harmful organisms. Cultivated plants are subject to protection in order to ensure healthy food and efficient use of the productive potential of soils, varieties or hybrids.

Weed control is a challenge. Knowledge of the involved factors on the level of the restrictive effects induced by weeds in agricultural crops is the basic principle of integrated weed management systems in any type of agriculture. The changes that occur locally in specific floristic compositions, the development of invasive weeds, the resistance of some species or varieties to the control methods applied, the technical innovations regarding weed control machines specific to sustainable agricultural systems, and sensors and mapping systems for weeds are all very important topics for the research.





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