

Special Issue

Management of Weeds and Herbicide Resistance

Message from the Guest Editors

The response of weeds to herbicides is expressed by the degree of their destruction, which depends on the mode of action of the herbicide, environmental factors, physiological mechanisms, and the biochemical reactions of plants. Each weed species has a lower and upper tolerance limit to the herbicide. Thus, the herbicide causes the extinction of susceptible individuals in the population, but also a positive selection of herbicide-resistant individuals, especially when used continuously or repeated periodically. With time, herbicide-resistant weeds become dominant in the ecological niche, also due to competition between resistant and susceptible weeds and crops. In this context, proper weed management is important to reduce the negative impact of resistant individuals on phytocenosis, including non-chemical methods of controlling resistant weeds.

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