

Special Issue

Integrated Management and Sustainability of Herbicide Resistance in Crops

Message from the Guest Editors

Herbicide resistance has become a critical challenge for modern agriculture, affecting crop productivity and sustainability. This phenomenon has increased due to the prolonged and repeated use of certain active substances. Since the introduction of synthetic herbicides in the 1940s, we have observed a steady increase in cases of resistance, especially in recent years, where cross-resistance has gained relevance due to the use of substances with similar mechanisms of action. This situation underlines the urgent need to investigate and address the problem. Innovative research is currently underway, exploring biotechnological approaches (including herbicide resistance in crops), agronomic practices, and the use of alternative compounds to mitigate herbicide resistance. This special Issue aims to examine the mechanisms underlying herbicide resistance and cross-resistance in diverse crop species, promoting a comprehensive understanding that will contribute to the development of effective management strategies. We invite original articles, reviews, and case studies that address both theoretical and practical aspects of herbicide resistance and its management strategies.

Guest Editors

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Editor-in-Chief

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