Special Issue

Adaptive Evolution in Weeds: Molecular Basis and Management

Message from the Guest Editor

Weeds are the most important biotic limitation to agricultural production and pose a major threat to global food security. In this Special Issue, we attempt to elucidate the molecular basis of weed adaptive evolution by contributing with novel mechanistic insights and important management strategies. The topics of interest include the molecular basis of seed dormancy and germination, mechanisms of herbicide resistance and biotic/abiotic stress tolerance, and integrated weed management. Welcome invite submissions of research that includes, but is not limited to, the following areas:

- New insights into weed adaptive evolution;
- Weed-seed dormancy and germination;
- Abiotic/biotic stress tolerance;
- Target-site/non-target-site herbicide resistance;
- Molecular basis of evolution and phenotypic variation in adaptive traits;
- Management of herbicide/stress resistance;
- Novel approaches for weed-management strategies.

We welcome novel research articles and reviews addressing all the related topics that introduce new discoveries, insights, and management strategies regarding adaptive evolution occurring in weeds.

Guest Editor

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