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Genotype × Environment Interactions in Crop Production

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Message from the Guest Editors

Genotype×environment interactions (GEIs) have contributed significantly to the yield increase in important staple crops over the last 50–80 years, and could continue to contribute to this increased productivity due to many factors including climate change.

This Special Issue aims to advance our understanding of GEI studies. This can lead to several benefits, including:

- Simplifying and improving the selection process for genotypes with broad adaptability and specific adaptability in special environments;
- Aiding in the identification of the most proper testing environments that represent a large part of the for-cultivation areas, which is necessary for the selection of high productivity and quality cultivars;
- Facilitating the development of strategies that optimize the allocation of resources in breeding programs or farming systems;
- Increasing the genetic gains of plant breeding programs;
- Identification of proper and user-friendly statistical tools.

By exploring GEIs, this Special Issue aims to provide valuable knowledge that can drive advancements in crop breeding programs and agricultural practices, contributing to food security and sustainable production.

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Message from the Editor-in-Chief

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