# Special Issue

# Crop Yield Improvement in Genetic and Biology Breeding

## Message from the Guest Editors

Food security is threatened, due to the burgeoning world population, increasing individual demands and degrading farmland. Additionally, over the past two decades, climate change is becoming more challenging in crop field improvement, especially given the incidences of elevated atmospheric CO2, as well as changing temperature and rainfall patterns. Crop breeding has been greatly accelerated by the enhanced knowledge of plant genomics and genetics, and the development of modern biotechnologies. However, crop yields have stabilized in recent years. To keep up with the future food demand, it is imperative to explore the genetic basis of plants and apply modern genetic engineering and breeding biotechnologies. The goal of this Special Issue is to present an overview of the latest fundamental discoveries in crop genomics, genetics and crop germplasm resources, as well as the potential utilization of biotechnologies in crop yield improvement. All original research papers and reviews are welcome for submission to this research topic, and we believe your contribution will have a significant influence on future crop breeding.

#### **Guest Editors**

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### Deadline for manuscript submissions

closed (30 September 2025)



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Agriculture (ISSN 2077-0472) is an international, scholarly and scientific open access journal publishing peer-reviewed research papers, review articles, communications and short notes that reflect the breadth and interdisciplinarity of agriculture.

#### Editor-in-Chief

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