

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.

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Deadline for manuscript submissions

15 March 2025



Agriculture

an Open Access Journal
by MDPI

Impact Factor 3.3
CiteScore 4.9



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Message from the Editor-in-Chief

Agriculture (ISSN 2077-0472) is an international, crossdisciplinary and scholarly open access journal on the science and technology of crop and animal production, and management of the natural resource base for agricultural production. *Agriculture* is published in an open access format – research articles, reviews and other contents are released on the internet immediately after acceptance. The scientific community and the public have unlimited and free access to the content as soon as it is published.

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