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Advances in Research for Legume Breeding and Genetics

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Message from the Guest Editors

Legumes (family *Fabaceae*) comprise a large family of plants grown worldwide, which are second in importance after cereals for human consumption and animal feed. Legumes represent a solution for global food and nutritional security. In addition to food and fodder uses, legumes have the ability to fix nitrogen, which decreases the need for application of N-fertilizers, making them economically profitable and sustainable crop species. In comparison with cereal crops, legumes have not been a research priority and improvements in yield unfortunately continue at a slow pace. Major constraints for legume production and quality include biotic pressure and abiotic stresses.

This Special Issue of *Plants* is to collate papers that describe recent advancements in the breeding, genetics, and genomics of legume crops. We would like to highlight efforts toward the development of improved high-yield varieties harboring resistance or tolerance to stresses by including topics such as exploration and use of germplasms to broaden genetic bases, pre-breeding, mapping of qualitative and quantitative traits, and the integration of new technologies and strategies into mapping and breeding workflows.



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Special Issue



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Message from the Editor-in-Chief

Plants is an open access journal which provides an advanced forum for research findings in areas related to plant function, its physiology, biology, taxonomy, stresses, and its interactions with other organisms. It publishes original research articles, reviews, reports, conference proceedings (peer reviewed full articles) and communications. In original research papers, it is important that full experimental details are provided. We also encourage timely reviews and commentaries on topics of interest to the plant research community.

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