

Special Issue

Identification and Utilization of Crop Wild Relatives' Germplasm

Message from the Guest Editor

Modern agriculture is grappling with the dual pressures of a growing global population and changing climate conditions, necessitating the development of crops with higher yields and enhanced environmental adaptability. Crop wild relatives, as an invaluable reservoir of plant germplasm with abundant genetic diversity, play a crucial role in breeding all over the world. During prolonged natural selection, wild species have preserved a wealth of genetic resources for plant growth and development, biotic and abiotic tolerance, stress resistance, nitrogen utilization, photosynthesis efficiency, etc. The rapid advancements in genetics and genomics techniques have significantly facilitated the identification of elite genes in wild species, which can be utilized for enhancing crop varieties. This Special Issue focuses on the utilization of wild relatives as a genetic resource for crop breeding. We aim to publish scientific contributions conducted on various kinds of crop wild relatives (even distantly) covering all related topics, including germplasm collection and evaluation, crop genetics and genomics, novel opinions and modeling, case studies, and breeding scenarios.

Guest Editor

Prof. Dr. Zuofeng Zhu

Department of Plant Genetics and Breeding, China Agricultural University, Beijing 100193, China

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Agronomy
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
agronomy@mdpi.com

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Editor-in-Chief

Prof. Dr. Leslie A. Weston

Gulbali Centre for Agriculture, Water and Environment Research,
Charles Sturt University, Wagga Wagga, NSW 2678, Australia

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