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Genetic Resources of Cereal and Oilseed Crops for Sustainable Breeding and Food Security

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Message from the Guest Editors

Dear Colleagues,

Cereal and oilseed crops are indispensable for existence of humankind. They are ubiquitously used for human and animal nutrition, medicinal purposes, obtaining ecologically friendly materials. Genebanks play an important role in conservation and the study of plant genetic resources. Collections of genetic resources of cereal and oilseed crops conserved in Genebanks include thousands of accessions representing old and modern varieties, landraces, breeding lines, and also wild species that can be used for breeding new genotypes possessing valuable traits.

Due to the domestication “bottleneck” effect in human history, the genetic basis of a number of cereal and oilseed crop species is comparatively narrow. Hybridization with landraces and wild species significantly facilitates broadening genetic diversity of breeding material for resistance to harmful organisms and tolerance to abiotic stressors. Distant hybridization may bring completely new traits that can revolutionize crop breeding and production.



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Special Issue



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Message from the Editor-in-Chief

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