

Special Issue

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

Message from the Guest Editors

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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Deadline for manuscript submissions

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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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