

Special Issue

Advances in Cereal Crops Breeding

Message from the Guest Editor

Cereals are the main food and feed crops that occupy 3/4 of the total acreage. The vast majority of plant breeders and geneticists are engaged in cereals breeding. The breeding methods are chosen on the basis of biology of the crop, genetic research for a particular crop, and where the breeding is carried out. The history of crop breeding is long, beginning at the dawn of human civilization with the creation of primitive landraces, continuing with the discovery of the genetic laws of G. Mendel and further progressing with the development of genetics. All breeding methods require source material, i.e., cereals and their wild relatives, maintained *ex situ* in gene banks that are repositories of valuable alleles for improving varieties and hybrids of crops. Studies aimed at the finding genes and QTL that affect the main breeding traits and at identifying allelic variants, and reviews summarizing these data are within the scope of the Special Issue. New data from traditional breeding methods, traditional and new strategies related to (a)biotic resistance, quality of grain production and green mass, and adaptability of plants in the context of climate change are of great interest.

Guest Editor

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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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