plants

IMPACT FACTOR 4.1 | Indexed in: PubMed | CITESCORE 7.6

an Open Access Journal by MDPI

Advances in Cereal Crops Breeding

Guest Editor:

Prof. Dr. Igor G. Loskutov
Department of Genetic Resources of Oat, Barley, Rye, N. I. Vavilov Institute of Plant Genetic Resources (VIR), 190000 St. Petersburg, Russia

Deadline for manuscript submissions:
closed (28 February 2021)

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.

plants

IMPACT FACTOR 4.1 | Indexed in: PubMed | CITESCORE 7.6

an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Dilantha Fernando
Department of Plant Science, University of Manitoba, Winnipeg, MB R3T 2N2, Canada

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.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.
High Visibility: indexed within Scopus, SCIE (Web of Science), PubMed, PMC, PubAg, AGRIS, CAPlus / SciFinder, and other databases.
Journal Rank: JCR - Q1 (Plant Sciences) / CiteScore - Q1 (Ecology, Evolution, Behavior and Systematics)

Contact Us

Plants Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/plants
plants@mdpi.com
𝕏@Plants_MDPI