

Special Issue

Cotton Precision Breeding

Message from the Guest Editors

With development of NGS technology, more and more crops have completed the decoding of the whole genome, and more and more genetic loci or functional genes for important agronomic traits have been discovered. Based on this, the breeding technology has been transformed from “breeding by experience” to targeted and efficient “precision breeding”. The achievement of precision breeding needs the combination of precise genetic mapping, high-resolution chromosome haplotyping, high-throughput gene transformation, and gene editing technology and extensive phenotyping. Cotton is the most important economical crop worldwide, providing natural fiber for the textile industry. In past years, cotton researchers have achieved impressive accomplishments in cotton genetic and genomic research. Our aim in creating this Special Issue on “Cotton Precision Breeding” is to display recent progresses in cotton functional gene identification, genome sequencing, genome evolution, and genetic diversity of cotton varieties, and gene editing that will boost the development of new varieties via precision breeding.

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Deadline for manuscript submissions

closed (12 April 2022)



Plants

an Open Access Journal
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Impact Factor 4.1
CiteScore 7.6
Indexed in PubMed



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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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