

Special Issue

Recognition and Utilization of Natural Genetic Resources for Advances in Plant Biology through Genomics and Biotechnology

Message from the Guest Editors

Biological diversity is the most important of nature's gifts, and many elite or superior gene alleles that confer favorable traits remain to be discovered and utilized. With the advancement of "omics" disciplines, plant genetic resources and biodiversity have become more critical for future agricultural and horticultural development. The data mining of these genetic resources to advance domestication has great potential in enhancing the crop vegetable yield and quality through molecular breeding and genetic engineering. A better knowledge of accumulated genomic plant resources for seeds, tubers, bamboo, etc., would help provide a fundamental understanding of the underlying genetics, physiology, biochemistry and metabolism, with the aim of developing improved breeding regimes for future agriculture and horticulture. What kind of papers we are soliciting: Crop genomics; genetic improvement; molecular markers; genetic engineering/transformation; organ formation and development and their genetic basis; digital agriculture.

Guest Editors

Prof. Dr. Jian Zhang

Dr. Guofei Tan

Dr. Feng Que

Deadline for manuscript submissions

closed (31 March 2023)



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Editor-in-Chief

Prof. Dr. Leslie A. Weston

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