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Chromosome Manipulation for Plant Breeding Purposes

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Message from the Guest Editor

Dear Colleagues,

The ability of exploiting the potential of wild relatives carrying beneficial traits is a major goal in breeding programs. However, it relies on the possibility of the chromosomes from the crop and the wild species to correctly associate and recombine during meiosis in interspecific crosses. Unfortunately, a barrier prevents successful hybridization between the wild and the crop chromosomes in most of the cases. Understanding the mechanisms controlling chromosome associations during meiosis is key and will provide genetic tools to facilitate chromosome associations in a plant breeding framework.

This special issue will focus on the study of chromosome associations during meiosis and the transfer of chromosomes or chromosome segments carrying interesting characters in the framework of plant breeding. The development of new aneuploid lines, interspecific hybrids, new methods to identify, isolate and manipulate single chromosomes, etc., will be considered within the general scope of this special issue.

Dr. Pilar Prieto
Guest Editor

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Message from the Editor-in-Chief

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