Special Issue

Chromosome Manipulation for Plant Breeding Purposes

Message from the Guest Editor

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.

Guest Editor

Dr. Pilar Prieto

Dpto. de Mejora Genética Vegetal, Instituto de Agricultura Sostenible, Agencia Estatal Consejo Superior de Investigaciones Científicas, Avenida Menéndez Pidal s/n. Campus Alameda del Obispo, 14004 Córdoba, Spain

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Agronomy
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
agronomy@mdpi.com

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Editor-in-Chief

Prof. Dr. Leslie A. Weston
Gulbali Centre for Agriculture, Water and Environment Research, Charles Sturt University, Wagga Wagga, NSW 2678, Australia

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