Special Issue

Recent Advances in Genomics, Genetic Resources Evaluation and Breeding of Cucurbitaceae Crops

Message from the Guest Editor

Progress in plant genomic technologies has become a revolution since a huge set of molecular tools are available for plant breeding, transforming and complementing traditional methods of plant selection and gene introgression. These advances enable a more efficient and wide use of genetic resources. The Cucurbitaceae family includes several economically important crops consumed globally as vegetables, fruits, and seeds, such as melon, cucumber, watermelon, pumpkin, squash, and gourds. Several of these species have seen great genomic advances in the past decade, due mainly to their small genome sizes. The availability of several genome sequences allows their application in cucurbit breeding and genetic resource management.

This Special Issue is open to submissions covering different aspects of the recent advances in genomics related to cucurbits. We particularly welcome submissions related to biological control strategies, host–pathogen molecular interactions, gene mapping and cloning, resistance gene discovery, breeding for pest and disease resistance, abiotic stress tolerance, and adaptation to changing environments in the context of global warming.

Guest Editor

Dr. Ana Isabel López-Sesé

Institute for Mediterranean and Subtropical Horticulture "La Mayora" (IHSM, UMA-CSIC), Plant Breeding and Biotechnology Department Estación Experimental La Mayora-CSIC, Avda. Dr. Wienberg, s/n., 29750 Algarrobo-Costa, Málaga, 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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