Special Issue

Molecular Genetics, Genomics and Biotechnology of Crop Plants Breeding

Message from the Guest Editor

Genome sequences are now available for the major crop plants, which give possibilities for combining genotyping and phenotyping for crop improvements. Biometric methods together with next generation sequencing support gene discovery when combined with phenotyping of large breeding populations or collections. In this way, some of the original ideas that were challenged by biotechnology can be revisited, and solutions that are more precise to be pursued. The introduction of DNA sequencing in the early 1980s, genetic transformation of important crop species, development of PCR-based methods and genotyping-by-sequencing provides easy development of marker assisted selection in orphan crops. Developing crops for food, feed, fuel, and fun, the last includes ornamentals; removing anti-nutritional factors or improving health properties of the harvested crop are other examples. We welcome papers on the above-mentioned topics and reviews that look into experiences grained over the previous 35 years of molecular genetics and biotechnology in crop plants.

Guest Editor

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