Special Issue

Genome Sequencing and Analysis in Crops

Message from the Guest Editor

The past two decades has seen the initial implementation and development of plant genome sequencing followed by sequential deciphering of numerous crop genomes. Intrinsic obstacles have asked for the development of technologies, strategies and approaches different from recipes used in genome sequencing in other kingdoms of life. The special issues aim to reflect on the current status of crop genome sequencing and the new avenues that are now open to be explored by putting the reference genomes to work. Ms. to be considered are interlinked with genomes and new directions and challenges in crop genomics - reaching far beyond application of sequencing technology only-:

- genomes and genome sequencing technology; polyploid crop genomics; phenomes; crop transcriptomes; crop proteomes; the transition to breeding (pan-genomes and -regulomes)
- germplasm dynamics; drift and fixation; domestication genomics; quantitative genetics & genomics;
- heterosis and how (pan)genome insights help to understand and utilize the phenomenon in advance plant breeding

Guest Editor

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