Special Issue

Potato Genetics and Breeding in the Genomics Era

Message from the Guest Editors

Potato is—and has long been—one of the major food crops grown worldwide and, with the human population increasing, it will no doubt continue to help feed the masses. In present day, the majority of potato cultivars are tetraploid and propagated vegetatively, with the breeding strategy being primarily based on phenotypic selection. As such, eliminating deleterious alleles and improving crops has proven laborious and difficult. Furthermore, over the years, potato has been no stranger to disease agents of all kinds, and the continual appearance of potato pests will not likely soon cease. As we stand, in the genomics era, breakthroughs and technologies that have come about in the last quarter-century provide us brand-new approaches to studying potato genetics and breeding, and the time has never been better to work on this important crop species. In this Special Issue, we welcome original research, reviews and opinions concerning recent insights, approaches, and advances in potato genetics and the optimization of potato breeding.

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