

Special Issue

Novel Breeding Technologies in Cereal Crops

Message from the Guest Editors

Plant breeding traditionally has been a very successful endeavor and has delivered highly productive crops varieties worldwide. The rate of genetic improvement in novel varieties, however, needs accelerating to meet the projected future food demands. A revolution in genetics and plant breeding was promised in the late 1980s when techniques were discovered that had the power to capture naturally occurring sequence variations in DNA and turn them into genetic markers. Now dense genetic maps exist for most of the crop, and the whole genomes of tens of agriculturally important crops have now been sequenced and re-sequenced, making millions of heritable markers available to use in trait dissection and plant breeding. This Special Issue will assess the history of progress in these methods and the difference they are making toward better understanding and breeding agronomical and nutritional important traits. Contributions combining review papers, research articles, methodology papers, and opinion papers covering the above aspects are solicited.

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