

Special Issue

Modern Biotechnologies and Improvement Breeding for Cereals Crop

Message from the Guest Editors

Cereal crops represent a pivotal source of energy and nutrients for global population, and an ever-escalating expansion of production was recorded in recent decades owing to plant breeding techniques and agricultural management practices. However, feeding the ever-increasing world population ahead of limited arable land as well as ever-changing climate conditions requires efficient breeding strategies to improve cereal crop production, which still represent a major challenge. To achieve this goal, technological advances in functional genomics were adopted to improve the efficiency of genome analysis and breeding programs in addition to phenotypic information. Therefore, this Special Issue aims to highlight new and/or modern biotechnologies useful to improve both cereal production quality and quantity and to address future challenges to food security in a context of sustainable agriculture.

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