

Special Issue

Genetic Analysis of Abiotic-Stress Adaptive Traits in Wheat and Barley

Message from the Guest Editor

Food production for the rapidly-increasing human population is threatened by loss of agricultural land and by diminishing water availability. A large part of crops' yield potential is unrealized, primarily due to abiotic-stress factors. Moreover, global climatic change towards greater aridity, higher temperatures and frequent erratic events, is expected to worsen this situation. Developing crop cultivars better adapted to abiotic-stress conditions is considered a sustainable and economically viable approach to enhance crop productivity and ensure food security. Past efforts to develop abiotic-stress resistant crop cultivars were usually hampered by low heritability of stress adaptive traits and by large 'genotype x environment' interactions. However, recent advances in molecular and genomic tools make the exploration of these mechanisms more feasible, with the promise of accelerating crop improvement. Prof. Yehoshua Saranga

Guest Editor

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