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

Guest Editor:

Prof. Dr. Yehoshua (Shuki) Saranga
R.H. Smith Institute of Plant Sciences & Genetics in Agriculture, The Hebrew University of Jerusalem, P.O. Box 12, Rehovot 76100, Israel

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Message from the Guest Editor

Dear Colleagues,

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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Editor-in-Chief

Prof. Dr. Leslie A. Weston
Gulbali Centre for Agriculture, Water and Environment Research, Charles Sturt University, Wagga Wagga, NSW 2678, Australia

Message from the Editor-in-Chief

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Agronomy Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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