Special Issue

Genetic Improvement of Abiotic Stress Tolerance in Crops

Message from the Guest Editor

Crop production is frequently threatened by environmental stress, which is exacerbated by the trends of climate warming on a global scale. Improving the adaptability of crops is a key strategy to mitigate the effects of climate change on productivity. Thus, it is imperitive to breed broad-spectrum tolerant crops in order to meet the increasing demand for food productivity globally. However, the tolerance of abiotic stress, such as drought, heat, and sanility is a complex quantitative trait controlled by many genes involved in the stress signal perception, signal transduction and amplification, and plant stress adjustments. One leverage point to accelerate the improvement in crops is to better understand the genetic and molecular bases of abiotic stress resistence, which require comprehensive studies of various aspects of crops, including their physiology, agronomy, phenome, omics, genetics, molecular mechanism, breeding, yield production, and utilization. In addition, the trade-off between crop yields and stress resistance is also highly important in this Special Issue.

Guest Editor

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