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Mining of Stress-Resistance Gene in Wheat

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Deadline for manuscript submissions:
closed (30 December 2024)

Message from the Guest Editors

Dear Colleagues,

Wheat is one of the most important staple cereal crops all over the world, providing approximately 20% of calories for human consumption with a total production of more than 600 million tonnes annually. Due to global climate change, abiotic stress is becoming the main limiting factor for wheat production, including drought, high/low temperatures and salt stresses. Plants have evolved sophisticated defense systems to cope with these abiotic stresses in the long-term adaptation process. Mining and utilization of stress-resistance genes holds the promise for breeding wheat varieties with the stress resilience to overcome the challenge of global food security due to climate change and population booming.

This Special Issue entitled “Mining of Stress-Resistance Gene in Wheat” will include papers that focus on the study of exploring stress-resistance genes in wheat; these will include, but are not limited to, the mapping and cloning of genes associating with abiotic stresses, and functional validation as well as decipher the genetic basis and potential mechanisms underlying stress resistance based on multi-omics studies.

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Message from the Editor-in-Chief

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