

Special Issue

Molecular Biology of Crop Abiotic Stress Resistance

Message from the Guest Editors

Extreme environmental stimuli, such as heat, cold, drought, high salinity, heavy metal pollution and mineral nutrient deficiencies, severely constrain crop growth, development and yield. Breeding stress-resistant varieties can reduce the yield losses of crops under stress conditions and alleviate the food shortages caused by the ever-growing global population. Crop plants possess and adopt multifarious molecular strategies to cope with various environmental stresses. The identification of genetic loci and genes conferring crop stress resistance and understanding the molecular mechanism underlying crop stress response and resistance will facilitate the breeding of elite stress-resistant crops. Along with an increasing number of crop genomes being sequenced, more of the genetic and molecular basis of crop stress resistance will be uncovered soon.

This Special Issue of *Genes*, entitled “Molecular Biology of Crop Stress Abiotic Resistance”, will collect high-quality research articles, short communications and reviews on all aspects of the recent molecular biology research of crop stress resistance.

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Genes is central to our understanding of biology, and modern advances such as genomics and genome editing have maintained genetics as a vibrant, diverse and fast-moving field. There is a need for good quality, open access journals in this area, and the *Genes* team aims to provide expert manuscript handling, serious peer review, and rapid publication across the whole discipline of genetics. Starting in 2010, the journal is now well established and recognised. Why not consider *Genes* for your next genetics paper?

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