Special Issue

Genetics of Biotic and Abiotic Stress Response in Plants

Message from the Guest Editor

Biotic and abiotic stresses are great threats to plant growth and development. In order to survive under stresses, plants have evolved complex mechanisms with which to sense external signals in order to respond to environmental changes. Reactive oxygen species homeostasis, as well as transcriptional and post-transcriptional modification play essential roles in resisting biotic and abiotic stresses. Recent applications of high-throughput omics and advanced bioengineering techniques deepen our understanding of the genetic mechanisms of stress responses in plants. Studies on the variation and segregation of population traits, QTL screening, molecular marker development, as well as the identification of gene functions provide further possibilities for us to comprehensively understand the adaptation mechanism of plant species to biotic and/or abiotic stresses. For this Special Issue, we aim to report the latest advances in genetics research on plants' responses and adaptations to stresses. Manuscripts related to forward genetics, reverse genetics, and chemical genetic studies are welcome in the form of original research articles or critical reviews.

Guest Editor

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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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