Special Issue

Molecular Genetics of Ornamental Plants Under Abiotic Stress: Current Insights and Future Perspectives

Message from the Guest Editor

Ornamental plants are widely valued for their aesthetic and economic significance, yet they frequently face threats from abiotic stresses such as drought, salinity, and extreme temperatures. These stresses severely impair their growth, ornamental quality, and post-harvest longevity, posing major challenges to the horticultural industry. Recently, with the development of modern biotechnologies, gene editing, high-throughput sequencing, and even artificial intelligence (AI) have been increasingly applied to investigate plant adaptation to abiotic stress, facilitating the exploration of the genetics of their tolerances. This Special Issue is dedicated to exploring molecular mechanisms of ornamental plant response to various abiotic stresses, including cold, drought, salt, or other abiotic stresses, even the complex abiotic stress. Studies improving our understanding of ornamental plant adaptation to abiotic stresses are welcome, particularly those involving advanced biotechnology, AI technology, and other cutting-edge technologies to investigate ornamental plant response to abiotic stresses.

Guest Editor

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Message from the Editor-in-Chief

Horticultural plants and their products provide sustenance, health, and beauty. A confluence of factors is putting increasing pressure on horticultural production to evolve, and innovative research is addressing these challenges. *Horticulturae* provides a venue to communicate research results in a rapid manner with open access, allowing everyone the opportunity to stay abreast of leading research addressing horticulture. I invite you to consider publishing the results of your research in this high quality, peer-reviewed journal.

Editor-in-Chief

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