

Special Issue

Breeding for Tomorrow: Stress Tolerance in Tomato Genotypes

Message from the Guest Editors

Climate change and global warming represent the main threats to many agricultural crops. Tomato is one of the most extensively grown and consumed horticultural crops and can survive in a wide range of climatic conditions. However, biotic and abiotic stresses negatively affect both vegetative growth and reproductive processes in modern cultivars, resulting in losses in yield and fruit quality traits. In this context, the main challenge for breeders is to develop tolerant plant material that can face both biotic and abiotic stresses. This Special Issue will highlight advances in tomato breeding. Specifically, we look forward to receiving manuscripts (reviews and research articles) that include topics such as the selection of tomato genotypes and hybrids and the identification of key-traits and genes in response to biotic and abiotic stresses using traditional breeding programs, MAS selection, the evaluation of heterosis, introgression lines or TILLING populations, omics approaches, genomic selection, plant genetic engineering techniques (i.e., CRISPR-CAS9), selection methods (the application of indices and statistical models of selection), or the application of AI.

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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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