Special Issue

Germplasm Resources of Horticultural Crops and Their Use to Improve Abiotic Stress Tolerance

Message from the Guest Editors

Human society requires ever-increasing and diversified food resources, and climate change and unadapted technologies are creating huge pressures on horticultural ecosystems for food production. The germplasm of a horticultural species is an essential genetic resource for identifying and selecting valuable attributes of tolerance to abiotic stressors. In recent decades, the investigation techniques of the physiological processes involved in increasing the tolerance of plants to stressors have reached levels of performance that are difficult to imagine, and their association with methods of molecular biology, breeding or applied biochemistry, have led to the achievement of remarkable findings in horticultural species. Additionally, huge advances have been made in the use of artificial intelligence, integrated sensor systems, information, analysis and communication technologies for the induction, detection and monitoring of abiotic parameters that can act as stressors of plants, with a determination of the impact on metabolic processes of productivity and the quality of crops.

Guest Editors

Prof. Dr. Şumălan Radu-Liviu

Prof. Dr. Adriana F. Sestras

Prof. Dr. Monica Boscaiu

Deadline for manuscript submissions

closed (20 December 2022)



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Plants is an open access journal which provides an advanced forum for research findings in areas related to plant function, its physiology, biology, taxonomy, stresses, and its interactions with other organisms. It publishes original research articles, reviews, reports, conference proceedings (peer reviewed full articles) and communications. In original research papers, it is important that full experimental details are provided. We also encourage timely reviews and commentaries on topics of interest to the plant research community.

Editor-in-Chief

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