Special Issue

Abiotic Stresses on Oliviculture: Impact and Adaptation Strategies

Message from the Guest Editors

Extreme weather events due to climate change are becoming more frequent, and climate projections pinpoint an increase in the frequency and severity of droughts, heatwaves, and floods. The olive tree, Olea europaea L., is one of the major crops in the Mediterranean region. Although well adapted to the climate of this region, stressful events threaten this culture, reducing productivity and changing the quality of olives and oil. To maintain the world's increasing demand for olive oil and table olives, more productive and profitable orchard practices have been implemented, mostly based on intensive systems with high levels of irrigation and fertilization. In the context of extreme climate events and the increasing scarcity of water availability, there is a growing need to implement more sustainable agricultural practices that enhance plant resilience and improve the efficiency of water management under stress conditions to guarantee production. Thus, it is crucial to understand olive functional plasticity to stress and recovery capacity, as well as develop more sustainable agricultural production practices.

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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.

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