

Special Issue

Abiotic and Biotic Stress Responses in Tree Species

Message from the Guest Editors

Tree species, serving as foundational component of terrestrial ecosystems, play a crucial role in preserving biological diversity, regulating climate, conserving soil, protecting water sources, and maintaining ecological environments. Yet, trees possess distinctive woody structures that necessitate the absorption of water and nutrients from the soil to support photosynthetic canopies that can reach heights of several tens of meters. The growth and development of trees are vulnerable to abiotic stress, including drought, soil salinity, heavy metal ion stress, and extreme temperatures. Furthermore, climate change, monocultures of forest trees, and anthropogenic activities have introduced risks to trees by exposing them to biotic stresses such as pests and diseases. This Special Issue aims to provide a comprehensive overview of the latest advancements in the research field of abiotic and biotic stress in tree species. This Special Issue aims to present selected contributions focusing on advancements in stress sensing, signaling transduction, phytohormone regulation, multilayered regulation of stress, multi-omics, and crosstalk regulation between abiotic and biotic stress.

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Forests (ISSN 1999-4907) is an international and cross-disciplinary, scholarly forestry journal. The distinguished editorial board and refereeing process ensures the highest degree of scientific rigor and review of all published articles. Original research articles and timely reviews are released online, with unlimited free access. Our goal is to have *Forests* be recognized as one of the foremost publication outlets for high quality, leading edge research in this broad and diverse field. We therefore invite you to be one of our authors, and in doing so share your important research findings with the global forestry community.

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