Special Issue

Physiology and Molecular Biology of Fruit Trees and Vines

Message from the Guest Editor

Understanding the physiology and molecular biology of fruit trees and vines is a crucial for optimizing its productivity. At present, global climate changes and limited natural resources make food production more challenging. An efficient production system requires a comprehensive understanding of fruit trees and vine behavior, allowing to maximize the use of our resources. Additionally, elucidating the physiological and molecular bases of flowering, fruit development, and abiotic stress tolerance will enable us to identify new pathways for fruit trees and vines genetic improvement. This includes but is not limited to the following aspects: - Improving water and nutrient use efficiency - Abiotic stress tolerance - Flowering, alternate bearing, and fruit drop - Regulation of fruit development, maturation, and ripening - Scion–rootstock interaction - Root system growth and development.

Guest Editor

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Message from the Editor-in-Chief

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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