## **Special Issue**

# Recent Insights in Physiology of Tree Fruit Production

#### Message from the Guest Editors

Physiological mechanisms are key to unlock our understanding of the resilience and efficiency of tree fruit production under variable environmental conditions and horticultural mitigations. This Special Issue aims to highlight the recent advances in the following broad physiological topics which are pertinent to the crop performance, yield potential and fruit quality of a variety of tree fruits.

- Fruit set, fruit quality, fruit disorder and yield under stresses and horticultural mitigations;
- Bud differentiation, alternate bearing, a variety of crop load management measures;
- Roles of phytohormones, efficacy of innovative plant growth regulators;
- Rootstock-scion interaction, roles of rootstocks and canopy structures in vigor control, resource use and allocation, crop resilience and yield potential;
- Plant-water relations, carbohydrate assimilation and partitioning, fruit growth and development.

We invite contributions from the field of ecophysiology and molecular physiology of apple, pear, sweet cherry, peach, citrus and other tree fruits. Research articles, reviews, opinions, communications and methods are welcomed.

#### **Guest Editors**

Dr. Hao Xu

Summerland Research and Development Centre, Agriculture and Agri-Food Canada, Summerland, BC VOH 1ZO, Canada

Prof. Dr. Avi Sadka

Department of Fruit Trees Sciences, Institute of Plant Sciences, ARO, The Volcani Center, P.O. Box 6, Bet Dagan 50250, Isreal

#### Deadline for manuscript submissions

closed (31 August 2024)



## **Agronomy**

an Open Access Journal by MDPI

Impact Factor 3.4 CiteScore 6.7



mdpi.com/si/167727

Agronomy
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
agronomy@mdpi.com

mdpi.com/journal/agronomy





an Open Access Journal by MDPI

Impact Factor 3.4 CiteScore 6.7



### **About the Journal**

#### Message from the Editor-in-Chief

Agronomy draws together researchers from diverse areas of agricultural research with a common aim of enhancing agricultural productivity globally. The journal provides unlimited free access to all those interested in advancing agricultural science from both the research and general community. Papers are released immediately after acceptance through the internet. Agronomy is supported by our authors and their institutes through low article processing charges (APC) for accepted papers. We hope you will support the journal by becoming one of our authors.

#### Editor-in-Chief

Prof. Dr. Leslie A. Weston

Gulbali Centre for Agriculture, Water and Environment Research, Charles Sturt University, Wagga Wagga, NSW 2678, Australia

#### **Author Benefits**

#### **Open Access:**

free for readers, with article processing charges (APC) paid by authors or their institutions.

#### **High Visibility:**

indexed within Scopus, SCIE (Web of Science), PubAg, AGRIS, and other databases.

#### **Journal Rank:**

JCR - Q1 (Agronomy) / CiteScore - Q1 (Agronomy and Crop Science)

