Special Issue

Advances in Citrus Physiology and Molecular Biology: From Genes to Orchard Performance

Message from the Guest Editors

Citrus crops are among the most widely cultivated fruit trees worldwide, playing a critical role in food security, human nutrition, and economic development across diverse agroecosystems. However, the sustainability and productivity of the citrus industry are increasingly challenged by environmental stresses, pathogens, pests, and changing climate conditions. To address these pressing issues, a deeper understanding of citrus physiology, from molecular signaling pathways to field-level performance, is needed. This Special Issue of *Horticulturae* aims to showcase cutting-edge research that unravels the complex biological processes driving citrus growth, development, and stress responses. We invite contributions that bridge fundamental and applied research, combining insights in gene expression, hormonal regulation, and defense mechanisms with physiological responses observed in controlled and field environments. Studies that integrate molecular tools with practical agronomic strategies are especially encouraged, offering valuable guidance for growers, breeders, and researchers. We welcome original research articles, reviews, and short communications on.

Guest Editors

Dr. Deived Uilian De Carvalho

Dr. Fernando Alferez

Dr. Eduardo Augusto Girardi

Dr. Maria Aparecida Da Cruz Bejatto

Deadline for manuscript submissions

30 November 2025

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About the Journal

Message from the Editor-in-Chief

Horticultural plants and their products provide sustenance, health, and beauty. A confluence of factors is putting increasing pressure on horticultural production to evolve, and innovative research is addressing these challenges. *Horticulturae* provides a venue to communicate research results in a rapid manner with open access, allowing everyone the opportunity to stay abreast of leading research addressing horticulture. I invite you to consider publishing the results of your research in this high quality, peer-reviewed journal.

Editor-in-Chief

Prof. Dr. Luigi De Bellis
Department of Biological and Environmental Sciences and Technologies (DiSTeBA), Salento University, Lecce, Italy

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