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Plant Hormone Signaling Regulation and Metabolites in Fruits

Guest Editors:

Prof. Dr. Carlos R. Figueroa

Institute of Biological Sciences,
Campus Talca, Universidad de
Talca, Talca 3460000, Chile

Dr. Lida Fuentes-Viveros

Centro Regional de Estudios en
Alimentos Saludables-CREAS,
Avenida Universidad 330,
Campus PUCV Curauma, sector
Placilla, Valparaíso 2340000,
Chile

Deadline for manuscript
submissions:

closed (30 April 2023)

Message from the Guest Editors

Plant hormones are an interesting group of molecules that govern plant developmental programs and molecular mechanisms to face biotic and abiotic stresses. Fleshy fruit development and ripening is a particular plant program where phytohormones command several processes involving the regulation of the expression of key transcription factors related to primary and secondary metabolism, which leads to biochemical changes and the accumulation of compounds of interest for fruit quality. The exogenous application of plant hormones or related compounds has been demonstrated to be an effective trigger for the accumulation of specific metabolites at fruit ripening and postharvest. Nevertheless, many relationships between plant hormones, transcription factors, and metabolite biosynthesis remain to be characterized involving phytohormone crosstalk that determines the development, ripening, and final quality of both climacteric and non-climacteric fruits. Therefore, this Special Issue of *Plants* will highlight the plant hormone signaling and metabolite accumulation in fruits, considering the connection between molecular, biochemical, and metabolic levels and their impact on fruit quality.



mdpi.com/si/95084

Special Issue



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Editor-in-Chief

Prof. Dr. Dilantha Fernando

Department of Plant Science,
University of Manitoba, Winnipeg,
MB R3T 2N2, Canada

Message from the Editor-in-Chief

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Plants Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

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