

Special Issue

Effects of Water Stress on the Biosynthesis and Accumulation of Secondary Metabolites in Fruit

Message from the Guest Editors

Fruits constitute an important commercial and nutritional food commodity. There is a growing interest in the effects of changed climate on the quality of many fruits. It is established that water stress coupled with higher temperature is going to definitely alter quality. However, the response to water stress depends on the stress level and on the phenological stage at which it occurs: Short-term and mild stress often leads to increased production of secondary metabolites, whereas long-term water shortage could generate the opposite results, associated with an acclimation process. The aim of this Special Issue is to bring together the latest advances in various aspects of physiological, biochemical, and molecular impacts of limited water availability on fruit quality, with a focus on the biosynthesis and accumulation of secondary metabolites. We warmly welcome articles (original research, reviews, modelling approaches, perspectives, opinions) that focus on factors affecting sustained fruit growth and production under water scarcity, in plants grown in an open field or greenhouse, in any fruit species, including those industry-oriented.

Guest Editors

Dr. Olfa Zarrouk

Dr. Carla Pinheiro

Prof. Dr. Isabel Lara

Dr. Cecilia Brunetti

Deadline for manuscript submissions

closed (30 April 2022)



Plants

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Impact Factor 4.1
CiteScore 7.6
Indexed in PubMed



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

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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

Prof. Dr. Dilantha Fernando
Department of Plant Science, University of Manitoba, Winnipeg, MB
R3T 2N2, Canada

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