


Special Issue

Advances in Plant Cultivation and Physiology of Horticultural Crops

Message from the Guest Editors

The technology behind the production of horticultural crops is of high interest due to their widespread cultivation and consumption, and the current challenges that they are facing due to climate change. In the development and application of modern cropping technologies, a deeper understanding of the physiology of the above-mentioned crops and a more precise determination of their reaction to changing growth conditions are necessary. Modern technologies and cultivation techniques such as precision farming, smart and sustainable  applications, and the use of beneficial microbial endophytes, biostimulants, and nanomaterials in both field and undercover cropping systems, as well as the use of artificial lighting in controlled horticulture significantly affect the production of propagating materials, the development of plants, and the yield and quality of products. Technologies should therefore consider factors that influence plant physiology and, by extension, cultivation techniques, such as abiotic stress and the management of fertilization and irrigation water, with the ultimate aim of limiting cultivation inputs and enhancing sustainable production.

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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, and 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.

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