

Special Issue

Jasmonates in Crop Plants: Regulation of Growth, Productivity and Stress Tolerance

Message from the Guest Editor

The acquisition of fundamental knowledge about plant hormones has provided a theoretical basis for the development of new approaches to controlling plant stress tolerance and productivity. We now know a great deal about how the phytohormones jasmonates regulate plant growth, development, and adaptive responses under adverse environmental conditions, and this knowledge reveals considerable potential for their application in various areas of agriculture. However, the effects induced by jasmonates can vary widely depending on plant species, variety, developmental stage, the concentration of exogenously applied hormone, duration of treatment, etc. Studying the peculiarities of the jasmonate-regulated processes in individual crop plants is a necessary step in transitioning these phytohormones to practical application. In the current Special Issue, we invite new experimental works and review articles describing the biological functions of jasmonates in crop species and their potential for agricultural application to improve crop tolerance and productivity.

Guest Editor

Dr. Tatyana V. Savchenko

Institute of Basic Biological Problems, Russian Academy of Sciences,
142290 Pushchino, Russia

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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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