

## Special Issue

# The Role of Sugars in Plant Responses to Stress and Their Regulatory Function during Development Volume 2

### Message from the Guest Editors

Owing to their regulatory function, sugars affect all phases of the life cycle of plants, interacting with other signaling molecules, including phytohormones, to control plant growth and development. The level of sugars in plant cells and their transport, utilization, and storage are precisely regulated and strongly dependent on cell physiological activity, plant organ, environmental conditions, and plant developmental stage during ontogenesis. Moreover, saccharides such as sucrose, glucose, fructose, and trehalose function as metabolic signaling molecules in host plant cells and induce the expression of many genes, including defense genes. All papers submitted to this Special Issue will underline the central role of sugars in plant defense responses to stresses as well as the impact of climatic conditions on the relationship between sugar metabolism and yielding. Additionally, papers on the involvement of sugars as signaling molecules in the processes regulating growth and development are welcome. Original and review papers dealing with all the above aspects of sugars are welcome for inclusion in this Special Issue of the *International Journal of Molecular Sciences*.

### Guest Editors

Prof. Dr. Iwona Morkunas

Prof. Dr. Philippe Jeandet

Dr. Mateusz Labudda

Dr. Magda Formela-Luboińska

### Deadline for manuscript submissions

closed (31 December 2022)



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### Message from the Editor-in-Chief

The International Journal of Molecular Sciences (*IJMS*, ISSN 1422-0067) is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, molecular biophysics, molecular medicine, and all aspects of molecular research in chemistry. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

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### Editor-in-Chief

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