

## Special Issue

# The Role of Melatonin in Plants 2.0

### Message from the Guest Editor

It is known that melatonin is an important modulator of plant development—it has an influence on seed germination, root formation and their architecture, seasonal and circadian rhythms, flowering time and fruit ripening, and leaf functioning (photosynthesis) and senescence. As amphiphilic, universal, very effective direct and indirect antioxidants, melatonin affects the plant cell redox status, and in this way, it interferes with a network of different signalling pathways. Moreover, melatonin is also involved in plant immunity and increases plant tolerance to various abiotic stresses.

This Special Issue will focus on expanding knowledge concerning the synthesis, distribution, and metabolism of plant melatonin (phytomelatonin), its multiple complex functions in plants and mechanisms of plant metabolism regulation, and the exogenous melatonin application methods improving the development of crop plants, especially under different stress conditions.

### Guest Editor

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### Deadline for manuscript submissions

closed (15 February 2024)



## International Journal of Molecular Sciences

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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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