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Melatonin in Plants

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Message from the Guest Editor

Melatonin has been investigated with an increasing amount of information about its presence in various plant species and its physiological functions. A large number of studies regarding plant melatonin (known as phytemelatonin) have been published over the past several years, indicating that phytemelatonin is a hot research topic. Melatonin regulates many biological processes, including seed germination, root growth, leaf senescence, and plant responses to various abiotic and biotic stresses. Exploiting the functions of melatonin in plants could facilitate its potential application in agriculture to improve yield and plant-environmental interactions. Much remains to be discovered, especially regarding the crosstalk between phytemelatonin and other plant hormones in terms of diverse biological processes or responses to the environment. In addition, more refined mechanism research on molecular, cellular, genetic, or large-scale omics levels is needed. This Special Issue of *Plants* will include reviews and refined function studies of phytemelatonin during development and in response to various environments, as well as potential regulatory studies on melatonin biosynthesis in plants.



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Special *issue*



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Message from the Editor-in-Chief

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