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Role of Melatonin in Plants

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Message from the Guest Editors

Dear Colleagues,

In plants, melatonin biosynthesis begins with tryptophan, an aromatic amino acid synthesized in chloroplasts via the shikimate pathway. Due to its amphiphilic molecule, it is omnipresent in all subcellular compartments functioning as an antioxidant as well as an important signaling molecule for optimal functions of chloroplasts and endoplasmic reticulum, and so forth. This Special issue invites all aspects of melatonin studies which are associated with melatonin synthesis, catabolism, their related genes, quantification of melatonin and its metabolites, possible signaling pathway components, and functions of melatonin as well as its metabolites in plants.

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Special Issue



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