# **Special Issue**

# UV-B Signaling and Its Molecular Control in Plant

## Message from the Guest Editor

UV-B radiation can act both as an environmental stress factor and as an informational signal, and has been shown to regulate plant development and photomorphogenesis. The type of response to UV-B is determined substantially by the fluence rate of exposure. High fluence rates of UV-B produce reactive oxygen species and may cause damage to DNA, proteins, membranes, and lipids. At low fluence rates, UV-B is capable of promoting metabolic and developmental changes, such as biosynthesis of phenolic secondary metabolites and inhibition of hypocotyl elongation. It has been demonstrated that low fluence rates of UV-B stimulate expression of a range of genes that help protect plants against UV damage.

This Special Issue is aimed at providing selected contributions on advances in UV-B signaling and its molecular control in plants. Potential topics include, but are not limited to:UV-B perception and signaling by the UVR8 photoreceptor.

- UV-B perception and signaling by the UVR8 photoreceptor.
- Molecular understanding of UV-B signaling pathways.
- Signaling crosstalk between UV-B and abiotic stress.
- Potential application of UV-B in agriculture and horticulture.

# **Guest Editor**

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## Deadline for manuscript submissions

closed (30 December 2023)



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# Message from the Editor-in-Chief

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