

Special Issue

Responses of Plants to Light Stress

Message from the Guest Editors

Light stress in plants affects plant function and development through insufficient or excess levels. Exposure to insufficient light limits the photosynthetic rate and inhibits plant growth. Moreover, excess light energy can damage the photosynthetic apparatus, resulting in the inhibition of plant growth. Plants have evolved various protective and response mechanisms by light conditions such as intensity, wavelength, duration, and direction of light. Meanwhile, excess light and ultraviolet radiation (UV) lead to increased production of ROS, which may cause photooxidative damage. ROS mediate vital functions (protection mechanism in plants) in inducing resistance to light stress as well as abiotic and biotic stresses. Recently, many researchers have exploited the fact that plant secondary metabolites may activate via light stress, especially via UV radiation. The present Special Issue will be focused on regulation mechanisms of growth and secondary metabolites in plants via light stress.

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Message from the Editor-in-Chief

Plants is an open access journal which provides an advanced forum for research findings in areas related to plant function, its physiology, biology, taxonomy, stresses, and its interactions with other organisms. It publishes original research articles, reviews, reports, and conference proceedings (peer reviewed full articles) and communications. In original research papers, it is important that full experimental details are provided. We also encourage timely reviews and commentaries on topics of interest to the plant research community.

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