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Responses of Plants to Light Stress

Guest Editors:

Dr. Eiji Goto
Graduate School of Horticulture, Chiba University, Matusdo, Chiba 271-8510, Japan

Prof. Dr. Ki-Ho Son
Division of Horticultural Science, Gyeongsang National University, Jinju, Korea

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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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Editor-in-Chief

Prof. Dr. Dilantha Fernando
Department of Plant Science, University of Manitoba, Winnipeg, MB R3T 2N2, Canada

Message from the Editor-in-Chief

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Contact Us

Plants Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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