



Chloroplast and Stress Signaling 2.0

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Message from the Guest Editor

Dear Colleagues,

Photosynthesis is inarguably the most important biological process on earth, and chloroplast is the plant organelle that carries it out. However, recent studies have indicated that chloroplasts suffering from stress conditions (e.g., high light, drought, low/high temperature, nutrient limitation, pathogen infection) produce specific signals and regulate the expression of nucleus genes. Meanwhile, stressed chloroplast also elicits post-translational modifications including autophagy, budding or even degradation. Thus, chloroplasts are not only the centers of plant metabolism, but also sensors of environmental stresses. This Special Issue focuses on the role of chloroplast in sensing and transmitting stress signals as well as its responses to environmental stresses.

Dr. Koichi Kobayashi
Guest Editor





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