

Special Issue

Light and Temperature Signals for Regulating Growth and Development of Crops

Message from the Guest Editor

Environmental factors are crucial signals for regulating plant growth and development. In particular, light and temperature could change the plant morphogenesis drastically, including floral initiation and plant shapes that are connected to crop production. At present, advanced environmental control technologies have been applied into crop production in a greenhouse. However, we should understand the mechanisms of plant responses against light and temperature environments deeply for efficient plant growth regulation. We would like you to share your recent findings of research on light and temperature signals for developing new technologies on crop production. Submissions on (but not limited to) the following topics are invited: (1) physiological mechanisms on plant morphogenesis and metabolism related to light and temperature environment; (2) plant growth responses for photoperiodic or thermoperiodic changes; (3) advanced technologies of cover materials, lighting, and air conditioning for regulating plant growth and morphogenesis; and (4) molecular signal transduction systems on light and temperature environments for morphogenesis, floral induction, and vernalization of plants.

Guest Editor

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