PB GS I -5

DEGRADATION OF PIF3 IN LD CYCLE

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Plants perceive red and far-red light signals through phytochromes. Many phytochrome signaling components have been identified, but the exact signaling event is still unclear. We have previously reported that PIF3, a phytochrome interacting bHLH transcription factor, is degraded by light. Since PIF3 interacts with TOC1 and binds G-box elements present in the promoters of CCA1 and LHY, it is expected that the function of PIF3 is closely related with circadian clock. To investigate the relationship, we examined the degradation of PIF3 is under the control of diurnal cycle, which indicate that light is not a sufficient signal that activates the degradation of PIF3.