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When phot1 or phot2 mutants were investigated for blue light responses such as de-etiolation (whereby plants resynthesize chlorophyll and grow larger leaves in response to sufficient light), photoperiodic flowering, and stomatal opening, the monogenic mutants showed little defect in these responses (4, 8, 16).

## **Phototropin Blue Light Receptors and Light-Induced**

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Effects of blue light on the circadian system and eye physiology ... long-term exposure to blue light is safe or whether additional studies are needed to fully understand the effects of blue light ... pupillary light response, and other important biologic functions (Figure 2).

## **Effects of blue light on the circadian system and eye**

Phototropins Promote Plant Growth in Response to Blue Light in Low Light Environments W Atsushi Takemiya,<sup>a</sup> 1 Shin-ichiro Inoue,<sup>a</sup> 1 Michio Doi,<sup>b</sup> 1 Toshinori Kinoshita,<sup>a</sup> and Ken-ichiro Shimazaki,<sup>2</sup> a Department of Biology, Faculty of Science, Kyushu University, Ropponmatsu, Fukuoka, 810-8560, Japan b Research and Development Center for Higher Education, Kyushu University, Ropponmatsu, Fukuoka ...

## **Phototropins Promote Plant Growth in Response to Blue**

PDF | Phototropins (phot1 and phot2) are plant-specific blue light receptors for phototropism, chloroplast movement, leaf expansion, and stomatal opening. All these responses are thought to ...

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