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Title
Light-dependent gravitropism and negative phototropism of inflorescence stems in a dominant Aux/IAA mutant of Arabidopsis thaliana, axr2

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Fig. S1 Longitudinal sections of the primary stem of the wild type and axr2-1 stained for amyloplasts. The wild type (left) and axr2-1 (right) stem segments about 1 cm long were fixed with 3% paraformaldehyde in phosphate-buffered saline overnight, and embedded in 3% agarose. About 60-μm-thick longitudinal sections were prepared with a vibrating blade microtome (VT1200S, Leica), and stained with 5% I₂–KI solution for a few min. en, endodermis.

Fig. S2 Effects of decapitation or application of NAA or NPA on the maximum bending rate of gravitropism in wild-type inflorescence stems in the dark or under
light conditions. Plants were placed in a horizontal position ~5 h after decapitation (upper panel) or after application of lanolin paste containing 0.5 mM NAA or NPA to apical 1-cm-long portions of stem (lower panel), and the time course of the gravitropic response determined for 18 h thereafter in the dark or under light conditions. Each of the data represents mean and SD of three to 14 measurements.

![Diagram](image)

Fig. S3 Time-course of the gravitropic response of eal1 and sgr2 (SALK_098981) inflorescence stems under different light conditions. eal1 (upper panel) or sgr2 (lower panel) were placed in the dark (closed symbols) and white-light conditions (open symbols) after changing the position of plants by ~90°. Two independent measurements are shown for each genotype (circles and triangles).
Fig. S4 Effects of application of NAA or decapitation on gravitropism of inflorescence stems of *axr2-1* in white-light conditions. 

**a** Gravitropic response was determined with 0.5 mM NAA (*triangles*) or mock treatment (*circles*). 

**b** Gravitropic response was determined after decapitation and removal of all the lateral organs (*triangles*). *Circles* show response of intact inflorescences. Each point represents mean and SD of three to 14 measurements. For more details, see the legend to Fig. 3.
Fig. S5 Effects of application of NPA on phototropism of inflorescence stems of the wild type and axr2-1. Lanolin paste containing 0.5 mM NPA was applied to wild-type (circles) or axr2-1 (triangles) stems. Data of mock treatment are shown with grey symbols, which are the same as those in Fig. 3a. Each point represents mean and SD of seven measurements. For more details, see a legend to Fig. 3.

Fig. S6 Phototropic responses of inflorescence stems of pin1-1 induced by unilateral irradiation with blue light (57 μmol m$^{-2}$ s$^{-1}$). Each point represents mean and SD of four measurements.