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SI movie legends

Movie 1 – 4 days old pRGA:GFP-RGA transgenic *Arabidopsis* seedlings were grown for 1 overnight on paclobutrazol (2 μ M) then incubated with PI. The seedlings were mounted on slides and root tips were imaged every 1 minute for 90 minutes. *Red:* PI. *Green:* GFP-RGA. Movie is at 10 fps.

Movie 2 – 4 days old pRGA:GFP-RGA transgenic *Arabidopsis* seedlings were grown for 1 overnight on paclobutrazol (2 μ M) then incubated with 4 (5 μ M, 25 min) and PI. The seedlings were mounted on slides, irradiated with 365 nm light (2 mW/cm², 10 seconds) at the root tip and imaged every 1 minute for 90 minutes. *Red:* PI. *Green:* GFP-RGA. Movie is at 10 fps.