SI movie legends

**Movie 1** – 4 days old pRGA:GFP-RGA transgenic *Arabidopsis* seedlings were grown for 1 overnight on paclobutrazol (2 μM) 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 μM) then incubated with 4 (5 μM, 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.