

T H E  
**PLANT**  
C E L L

Volume 26 Number 6 June 2014

The electronic form of this issue, available at [www.plantcell.org](http://www.plantcell.org), is the journal of record.

### ON THE COVER



While in most plant species, the switch to flowering is very stable, a few species and mutant plants switch back from flower to leaf production, which is termed floral reversion. In the model plant *Arabidopsis thaliana*, Müller-Xing et al. (pages 2457–2471) studied mutants for Polycomb-group (Pc-G) genes that encode epigenetic regulators for their role in maintaining floral induction. They revealed a key function for Pc-G proteins, as the mutants show floral reversion when plants are shifted from flowering inducing to noninducing conditions. Thus, Pc-G mutants do not remember induction of flowering and revert back to a previous stage in their lifecycle. The cover shows floral reversion in the *Arabidopsis* line *clf-28 swn-7 CLF<sub>pro</sub>:CLF-GR* (left) after a shift to short-day conditions and naturally occurring floral reversion in the ornamental plant Crown Imperial (*Fritillaria imperialis*; right; photo by Qian Xing).

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
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**The Plant Cell** (ISSN 1040-4651, online ISSN 1532-298X) is published monthly (one volume per year) by the American Society of Plant Biologists, 15501 Monona Drive, Rockville, MD 20855-2768, and is produced by Dartmouth Journal Services, Waterbury, VT. The institutional price for the print and online versions is based on type of institution; contact [institution@aspb.org](mailto:institution@aspb.org). Single copies may be purchased for \$40 each, plus \$10 shipping (U.S.) or \$12 (outside U.S.). Members of the American Society of Plant Biologists may subscribe to *The Plant Cell* for \$240. Nonmember individuals may subscribe for \$500. Students may subscribe for \$165. For matters regarding subscriptions, contact Suzanne Cholwek, ASPB, 15501 Monona Drive, Rockville, MD 20855-2768; telephone 301/296-0926; fax 301/251-6740; e-mail [scholwek@aspb.org](mailto:scholwek@aspb.org). Notify ASPB in writing within 3 months (domestic) or 6 months (foreign) of issue date, and defective copies or copies lost in the mail will be replaced. Send all inquiries regarding display advertising to FASEB AdNet, 9650 Rockville Pike, Bethesda, MD 20814-3998; telephone 301/634-7791; fax 301/634-7153; e-mail [adnet@faseb.org](mailto:adnet@faseb.org). Periodicals postage paid at Rockville, MD 20850, and at additional mailing offices.

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