

T H E
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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_{pro}: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).

IN BRIEF

When to Hold Them: Retention of Duplicate Genes in Poplar 2283
Jennifer Mach

POK Marks the Spot: Kinesin-12 Proteins Are Spatial Markers of the Site Transiently Occupied by the Preprophase Band 2284
Kathleen L. Farquharson

REVIEW

Intervention of Phytohormone Pathways by Pathogen Effectors [OPEN](#) 2285
Kemal Kazan and Rebecca Lyons

LARGE-SCALE BIOLOGY ARTICLES

Systems Analysis of the Response of Photosynthesis, Metabolism, and Growth to an Increase in Irradiance in the Photosynthetic Model Organism *Chlamydomonas reinhardtii* [C](#)[W](#)[OPEN](#) 2310

Tabea Mettler, Timo Mühlhaus, Dorothea Hemme, Mark-Aurel Schöttler, Jens Rupprecht, Adam Idoine, Daniel Veyel, Sunil Kumar Pal, Liliya Yaneva-Roder, Flavia Vischi Winck, Frederik Sommer, Daniel Vosloh, Bettina Seiwert, Alexander Erban, Asdrubal Burgos, Samuel Arvidsson, Stephanie Schönfelder, Anne Arnold, Manuela Günther, Ursula Krause, Marc Lohse, Joachim Kopka, Zoran Nikoloski, Bernd Mueller-Roeber, Lothar Willmitzer, Ralph Bock, Michael Schroda, and Mark Stitt

The Functional Topography of the *Arabidopsis* Genome Is Organized in a Reduced Number of Linear Motifs of Chromatin States [C](#)[W](#) 2351

Joana Sequeira-Mendes, Irene Aragüez, Ramón Peiró, Raul Mendez-Giraldez, Xiaoyu Zhang, Steven E. Jacobsen, Ugo Bastolla, and Crisanto Gutierrez

Meta-Analysis of *Arabidopsis thaliana* Phospho-Proteomics Data Reveals Compartmentalization of Phosphorylation Motifs [C](#)[W](#) 2367

Klaas J. van Wijk, Giulia Friso, Dirk Walther, and Waltraud X. Schulze

A Scalable Open-Source Pipeline for Large-Scale Root Phenotyping of *Arabidopsis* [W](#)[OPEN](#) 2390

Radka Slovak, Christian Göschl, Xiaoxue Su, Koji Shimotani, Takashi Shiina, and Wolfgang Busch

RESEARCH ARTICLES

Subcellular Relocalization and Positive Selection Play Key Roles in the Retention of Duplicate Genes of *Populus* Class III Peroxidase Family [W](#)[OPEN](#) 2404

Lin-Ling Ren, Yan-Jing Liu, Hai-Jing Liu, Ting-Ting Qian, Li-Wang Qi, Xiao-Ru Wang, and Qing-Yin Zeng

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- Comparative Analysis of *Miscanthus* and *Saccharum* Reveals a Shared Whole-Genome Duplication but Different Evolutionary Fates** [W](#) 2420
Changsoo Kim, Xiyin Wang, Tae-Ho Lee, Katrin Jakob, Geung-Joo Lee, and Andrew H. Paterson
- A Role for CHH Methylation in the Parent-of-Origin Effect on Altered Circadian Rhythms and Biomass Heterosis in *Arabidopsis* Intraspecific Hybrids** [W](#)[I](#)[O](#)[P](#)[E](#)[N](#) 2430
Danny W.-K. Ng, Marisa Miller, Helen H. Yu, Tien-Yu Huang, Eun-Deok Kim, Jie Lu, Qiguang Xie, C. Robertson McClung, and Z. Jeffrey Chen
- COP1 and phyB Physically Interact with PIL1 to Regulate Its Stability and Photomorphogenic Development in *Arabidopsis*** [W](#) 2441
Qian Luo, Hong-Li Lian, Sheng-Bo He, Ling Li, Kun-Peng Jia, and Hong-Quan Yang
- Polycomb-Group Proteins and *FLOWERING LOCUS T* Maintain Commitment to Flowering in *Arabidopsis thaliana*** [C](#)[W](#)[I](#)[O](#)[P](#)[E](#)[N](#) 2457
Ralf Müller-Xing, Oliver Clarenz, Lena Pokorny, Justin Goodrich, and Daniel Schubert
- The Chromatin-Remodeling Factor PICKLE Integrates Brassinosteroid and Gibberellin Signaling during Skotomorphogenic Growth in *Arabidopsis*** [C](#)[W](#) 2472
Dong Zhang, Yanjun Jing, Zhimin Jiang, and Rongcheng Lin
- The bHLH142 Transcription Factor Coordinates with TDR1 to Modulate the Expression of *EAT1* and Regulate Pollen Development in Rice** [C](#)[W](#)[I](#)[O](#)[P](#)[E](#)[N](#) 2486
Swee-Suak Ko, Min-Jeng Li, Maurice Sun-Ben Ku, Yi-Cheng Ho, Yi-Jyun Lin, Ming-Hsing Chuang, Hong-Xian Hsing, Yi-Chen Lien, Hui-Ting Yang, Hung-Chia Chang, and Ming-Tsair Chan
- Tomato Pistil Factor STIG1 Promotes in Vivo Pollen Tube Growth by Binding to Phosphatidylinositol 3-Phosphate and the Extracellular Domain of the Pollen Receptor Kinase LePRK2** [W](#)[I](#)[O](#)[P](#)[E](#)[N](#) 2505
Wei-Jie Huang, Hai-Kuan Liu, Sheila McCormick, and Wei-Hua Tang
- An Uncharacterized Apocarotenoid-Derived Signal Generated in ζ -Carotene Desaturase Mutants Regulates Leaf Development and the Expression of Chloroplast and Nuclear Genes in *Arabidopsis*** [C](#)[W](#) 2524
Aida-Odetta Avendaño-Vázquez, Elizabeth Cordoba, Ernesto Llamas, Carolina San Román, Nazia Nisar, Susana De la Torre, Maricela Ramos-Vega, María de la Luz Gutiérrez-Nava, Christopher Ian Cazzonelli, Barry James Pogson, and Patricia León
- The Receptor-Like Kinase SIT1 Mediates Salt Sensitivity by Activating MAPK3/6 and Regulating Ethylene Homeostasis in Rice** [C](#)[W](#) 2538
Chen-Hui Li, Geng Wang, Ji-Long Zhao, Li-Qing Zhang, Lian-Feng Ai, Yong-Feng Han, Da-Ye Sun, Sheng-Wei Zhang, and Ying Sun
- A Single-Pore Residue Renders the *Arabidopsis* Root Anion Channel SLAH2 Highly Nitrate Selective** [C](#)[W](#) 2554
Tobias Maierhofer, Christof Lind, Stefanie Hüttl, Sönke Scherzer, Melanie Papenfuß, Judy Simon, Khaled A.S. Al-Rasheid, Peter Ache, Heinz Rennenberg, Rainer Hedrich, Thomas D. Müller, and Dietmar Geiger
- Plasticity in Cell Division Patterns and Auxin Transport Dependency during in Vitro Embryogenesis in *Brassica napus*** [C](#)[W](#) 2568
Mercedes Soriano, Hui Li, Cédric Jacquard, Gerco C. Angenent, Joan Krochko, Remko Offringa, and Kim Boutillier
- Proline responding1* Plays a Critical Role in Regulating General Protein Synthesis and the Cell Cycle in Maize** [C](#)[W](#)[I](#)[O](#)[P](#)[E](#)[N](#) 2582
Gang Wang, Jushan Zhang, Guifeng Wang, Xiangyu Fan, Xin Sun, Hongli Qin, Nan Xu, Mingyu Zhong, Zhenyi Qiao, Yuanping Tang, and Rentao Song
- The *jiaoyao1* Mutant Is an Allele of *korriگان1* That Abolishes Endoglucanase Activity and Affects the Organization of Both Cellulose Microfibrils and Microtubules in *Arabidopsis*** [C](#)[W](#) 2601
Lei Lei, Tian Zhang, Richard Strasser, Christopher M. Lee, Martine Gonneau, Lukas Mach, Samantha Vernhettes, Seong H. Kim, Daniel Cosgrove, Shundai Li, and Ying Gu

- The Phragmoplast-Orienting Kinesin-12 Class Proteins Translate the Positional Information of the Preprophase Band to Establish the Cortical Division Zone in *Arabidopsis thaliana*** [C](#)[W](#) 2617
 Elisabeth Lipka, Astrid Gadeyne, Dorothee Stöckle, Steffi Zimmermann, Geert De Jaeger, David W. Ehrhardt, Viktor Kirik, Daniel Van Damme, and Sabine Müller
- The Cyclin-Dependent Kinase Inhibitor KRP6 Induces Mitosis and Impairs Cytokinesis in Giant Cells Induced by Plant-Parasitic Nematodes in *Arabidopsis*** [W](#) 2633
 Paulo Vieira, Annelies De Clercq, Hilde Stals, Jelle Van Leene, Eveline Van De Slijke, Gert Van Isterdael, Dominique Eeckhout, Geert Persiau, Daniël Van Damme, Aurine Verkest, José Dijair Antonino de Souza, Júnior, Nathalie Glab, Pierre Abad, Gilbert Engler, Dirk Inzé, Lieven De Veylder, Geert De Jaeger, and Janice de Almeida Engler
- Transposable Element Insertion and Epigenetic Modification Cause the Multiallelic Variation in the Expression of *FAE1* in *Sinapis alba*** [W](#)[OPEN](#) 2648
 Fangqin Zeng and Bifang Cheng
- REPRESSOR OF SILENCING5* Encodes a Member of the Small Heat Shock Protein Family and Is Required for DNA Demethylation in *Arabidopsis*** [C](#)[W](#) 2660
 Yusheng Zhao, Shaojun Xie, Xiaojie Li, Chunlei Wang, Zhongzhou Chen, Jinsheng Lai, and Zhizhong Gong
- Environmental History Modulates *Arabidopsis* Pattern-Triggered Immunity in a HISTONE ACETYLTRANSFERASE1–Dependent Manner** [C](#)[W](#) 2676
 Prashant Singh, Shweta Yekondi, Po-Wen Chen, Chia-Hong Tsai, Chun-Wei Yu, Keqiang Wu, and Laurent Zimmerli
- Rewiring Host Lipid Metabolism by Large Viruses Determines the Fate of *Emiliania huxleyi*, a Bloom-Forming Alga in the Ocean** [C](#)[W](#)[OPEN](#) 2689
 Shilo Rosenwasser, Michaela A. Mausz, Daniella Schatz, Uri Sheyn, Sergey Malitsky, Asaph Aharoni, Eyal Weinstock, Oren Tzfadia, Shifra Ben-Dor, Ester Feldmesser, Georg Pohnert, and Assaf Vardi
- N*-Acyl-Homoserine Lactone Primes Plants for Cell Wall Reinforcement and Induces Resistance to Bacterial Pathogens via the Salicylic Acid/Oxylipin Pathway** [C](#)[W](#)[OPEN](#) 2708
 Sebastian T. Schenk, Casandra Hernández-Reyes, Birgit Samans, Elke Stein, Christina Neumann, Marek Schikora, Michael Reichelt, Axel Mithöfer, Annette Becker, Karl-Heinz Kogel, and Adam Schikora

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