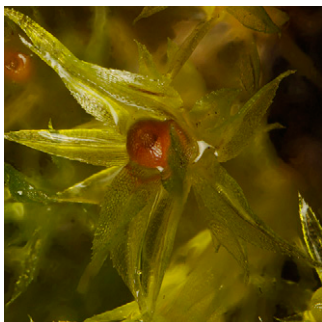


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**ON THE COVER**



Hydrophobic cuticles are thought to be ubiquitous in land plants and an essential adaptation for life in terrestrial environments. However, current understanding of cuticle structure, architecture, and biosynthetic pathways is based almost exclusively on studies of later diverging plant species. Buda et al. (pages 4000–4013) report that the moss *Physcomitrella patens* has a cuticle that is similar in many respects to those of spermatophytes, and show that an ABCG transporter is required for depositing cuticular waxes, resulting in enhanced desiccation tolerance. The cover shows *P. patens* in its haploid form with developing diploid sporophytes.

**IN BRIEF**

- Good Neighbor Hypothesis of Lignification Holds for Xylem Cells, but Not for Interfascicular Fibers** 3635  
Kathleen L. Farquharson
- Plastid Genes That Were Lost along the Road to Parasitism** 3636  
Jennifer Lockhart
- Ethanolamide Oxylipins: New Players in Seedling Development** 3637  
Nancy R. Hofmann
- Border Patrol on the Extrahaustorial Membrane: *Arabidopsis* Resistance Protein RPW8.2 Activates Targeted, Postpenetration Defenses** 3638  
Jennifer Mach
- The Plant Cell* Reviews Alternative Splicing** 3639  
Nancy A. Eckardt

**REVIEWS**

- Alternative Splicing at the Intersection of Biological Timing, Development, and Stress Responses** <sup>OPEN</sup> 3640  
Dorothee Staiger and John W.S. Brown
- Complexity of the Alternative Splicing Landscape in Plants** <sup>CI</sup><sup>W</sup><sup>OPEN</sup> 3657  
Anireddy S.N. Reddy, Yamile Marquez, Maria Kalyna, and Andrea Barta

**LARGE-SCALE BIOLOGY ARTICLES**

- Reticulate Evolution of the Rye Genome** <sup>W</sup><sup>OPEN</sup> 3685  
Mihaela M. Martis, Ruonan Zhou, Grit Haseneyer, Thomas Schmutzer, Jan Vrána, Marie Kubaláková, Susanne König, Karl G. Kugler, Uwe Scholz, Bernd Hackauf, Viktor Korzun, Chris-Carolin Schön, Jaroslav Doležal, Eva Bauer, Klaus F.X. Mayer, and Nils Stein
- Translational Landscape of Photomorphogenic *Arabidopsis*** <sup>W</sup> 3699  
Ming-Jung Liu, Szu-Hsien Wu, Jing-Fen Wu, Wen-Dar Lin, Yi-Chen Wu, Tsung-Ying Tsai, Huang-Lung Tsai, and Shu-Hsing Wu
- Mechanisms of Functional and Physical Genome Reduction in Photosynthetic and Nonphotosynthetic Parasitic Plants of the Broomrape Family** <sup>W</sup><sup>OPEN</sup> 3711  
Susann Wicke, Kai F. Müller, Claude W. de Pamphilis, Dietmar Quandt, Norman J. Wickett, Yan Zhang, Susanne S. Renner, and Gerald M. Schneeweiss

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## Nonsense-Mediated Decay of Alternative Precursor mRNA Splicing Variants 3726

### Is a Major Determinant of the *Arabidopsis* Steady State Transcriptome [C|W](#)

Gabriele Drechsel, André Kahles, Anil K. Kesarwani, Eva Stauffer, Jonas Behr, Philipp Drewe, Gunnar Rättsch, and Andreas Wachter

## RESEARCH ARTICLES

### Genome-Wide Binding Analysis of the Transcription Activator IDEAL 3743

#### PLANT ARCHITECTURE1 Reveals a Complex Network Regulating Rice Plant Architecture [W](#)

Zefu Lu, Hong Yu, Guosheng Xiong, Jing Wang, Yongqing Jiao, Guifu Liu, Yanhui Jing, Xiangbing Meng, Xingming Hu, Qian Qian, Xiangdong Fu, Yonghong Wang, and Jiayang Li

### Nighttime Sugar Starvation Orchestrates Gibberellin Biosynthesis and 3760

#### Plant Growth in *Arabidopsis* [W](#)

Eleonora Paparelli, Sandro Parlanti, Silvia Gonzali, Giacomo Novi, Lorenzo Mariotti, Nello Ceccarelli, Joost T. van Dongen, Katharina Kölling, Samuel C. Zeeman, and Pierdomenico Perata

### HFR1 Sequesters PIF1 to Govern the Transcriptional Network Underlying 3770

#### Light-Initiated Seed Germination in *Arabidopsis* [C|W|OPEN](#)

Hui Shi, Shangwei Zhong, Xiaorong Mo, Na Liu, Cynthia D. Nezames, and Xing Wang Deng

### Flower Development under Drought Stress: Morphological and 3785

#### Transcriptomic Analyses Reveal Acute Responses and Long-Term Acclimation in *Arabidopsis* [C|W](#)

Zhao Su, Xuan Ma, Huihong Guo, Noor Liyana Sukiran, Bin Guo, Sarah M. Assmann, and Hong Ma

### Copy Number Variation in Transcriptionally Active Regions of Sexual and 3808

#### Apomictic *Boechera* Demonstrates Independently Derived Apomictic Lineages [W](#)

Olawale M. Aliyu, Michael Seifert, José M. Corral, Joerg Fuchs, and Timothy F. Sharbel

### Ethanolamide Oxylinins of Linolenic Acid Can Negatively Regulate 3824

#### *Arabidopsis* Seedling Development [C|W](#)

Jantana Keereetaweep, Elison B. Blancaflor, Ellen Hornung, Ivo Feussner, and Kent D. Chapman

### The *Arabidopsis* Eukaryotic Translation Initiation Factor eIF5A-2 Regulates 3841

#### Root Protoxylem Development by Modulating Cytokinin Signaling [W](#)

Bo Ren, Qingguo Chen, Sulei Hong, Wenming Zhao, Jian Feng, Haizhong Feng, and Jianru Zuo

### Regulation of Auxin Homeostasis and Gradients in *Arabidopsis* Roots 3858

#### through the Formation of the Indole-3-Acetic Acid Catabolite

#### 2-Oxindole-3-Acetic Acid [C|W|OPEN](#)

Aleš Pěňčík, Biljana Simonovik, Sara V. Petersson, Eva Henyková, Sibū Simon, Kathleen Greenham, Yi Zhang, Mariusz Kowalczyk, Mark Estelle, Eva Zažímalová, Ondřej Novák, Göran Sandberg, and Karin Ljung

### ABI1 and PP2CA Phosphatases Are Negative Regulators of Snf1-Related 3871

#### Protein Kinase1 Signaling in *Arabidopsis* [C|W](#)

Américo Rodrigues, Mattia Adamo, Pierre Crozet, Leonor Margalha, Ana Confraria, Cláudia Martinho, Alexandre Elias, Agnese Rabissi, Victoria Lumberras, Miguel González-Guzmán, Regina Antoni, Pedro L. Rodriguez, and Elena Baena-González

### Replication Protein A2c Coupled with Replication Protein A1c Regulates 3885

#### Crossover Formation during Meiosis in Rice [C|W|OPEN](#)

Xingwang Li, Yuxiao Chang, Xiaodong Xin, Chunmei Zhu, Xianghua Li, James D. Higgins, and Changyin Wu

### Centromere Pairing in Early Meiotic Prophase Requires Active Centromeres 3900

#### and Precedes Installation of the Synaptonemal Complex in Maize [W](#)


Jing Zhang, Wojciech P. Pawlowski, and Fangpu Han

- Mediation of Clathrin-Dependent Trafficking during Cytokinesis and Cell Expansion by *Arabidopsis* STOMATAL CYTOKINESIS DEFECTIVE Proteins** [W](#) 3910  
Colleen M. McMichael, Gregory D. Reynolds, Lisa M. Koch, Chao Wang, Nan Jiang, Jeanette Nadeau, Fred D. Sack, Max B. Gelderman, Jianwei Pan, and Sebastian Y. Bednarek
- The PHOTOSYNTHESIS AFFECTED MUTANT68-LIKE Protein Evolved from a PSII Assembly Factor to Mediate Assembly of the Chloroplast NAD(P)H Dehydrogenase Complex in *Arabidopsis*** [W](#) 3926  
Ute Armbruster, Thilo Rühle, Renate Kreller, Christoph Strotbek, Jessica Zühlke, Luca Tadini, Thomas Blunder, Alexander P. Hertle, Yafei Qi, Birgit Rengstl, Jörg Nickelsen, Wolfgang Frank, and Dario Leister
- Cell Growth Defect Factor1/CHAPERONE-LIKE PROTEIN OF POR1 Plays a Role in Stabilization of Light-Dependent Protochlorophyllide Oxidoreductase in *Nicotiana benthamiana* and *Arabidopsis*** [C](#)[W](#) 3944  
Jae-Yong Lee, Ho-Seok Lee, Ji-Young Song, Young Jun Jung, Steffen Reinbothe, Youn-Il Park, Sang Yeol Lee, and Hyun-Sook Pai
- Convergent Evolution of Polysaccharide Debranching Defines a Common Mechanism for Starch Accumulation in Cyanobacteria and Plants** [W](#) 3961  
Ugo Cenci, Malika Chabi, Mathieu Ducatez, Catherine Tirtiaux, Jennifer Nirmal-Raj, Yoshinori Utsumi, Daiki Kobayashi, Satoshi Sasaki, Eiji Suzuki, Yasunori Nakamura, Jean-Luc Putaux, Xavier Roussel, Amandine Durand-Terrasson, Debashish Bhattacharya, Anne-Sophie Vercoutter-Edouart, Emmanuel Maes, Maria Cecilia Arias, Monica Palcic, Lyann Sim, Steven G. Ball, and Christophe Colleoni
- LACCASE Is Necessary and Nonredundant with PEROXIDASE for Lignin Polymerization during Vascular Development in *Arabidopsis*** [C](#)[W](#) 3976  
Qiao Zhao, Jin Nakashima, Fang Chen, Yanbin Yin, Chunxiang Fu, Jianfei Yun, Hui Shao, Xiaoqiang Wang, Zeng-Yu Wang, and Richard A. Dixon
- Neighboring Parenchyma Cells Contribute to *Arabidopsis* Xylem Lignification, while Lignification of Interfascicular Fibers Is Cell Autonomous** [W](#) 3988  
Rebecca A. Smith, Mathias Schuetz, Melissa Roach, Shawn D. Mansfield, Brian Ellis, and Lacey Samuels
- An ATP Binding Cassette Transporter Is Required for Cuticular Wax Deposition and Desiccation Tolerance in the Moss *Physcomitrella patens*** [W](#) 4000  
Gregory J. Buda, William J. Barnes, Eric A. Fich, Sungjin Park, Trevor H. Yeats, Lingxia Zhao, David S. Domozych, and Jocelyn K.C. Rose
- The Evolutionarily Conserved Iron-Sulfur Protein INDH1 Is Required for Complex I Assembly and Mitochondrial Translation in *Arabidopsis*** [C](#)[W](#)[I](#)[OPEN](#) 4014  
Mateusz M. Wydro, Pia Sharma, Jonathan M. Foster, Katrine Bych, Etienne H. Meyer, and Janneke Balk
- In Vivo Intracellular pH Measurements in Tobacco and *Arabidopsis* Reveal an Unexpected pH Gradient in the Endomembrane System** [W](#) 4028  
Alexandre Martinière, Elias Bassil, Elodie Jublanc, Carine Alcon, Maria Reguera, Hervé Sentenac, Eduardo Blumwald, and Nadine Paris
- Identification of Downstream Components of Ubiquitin-Conjugating Enzyme PHOSPHATE2 by Quantitative Membrane Proteomics in *Arabidopsis* Roots** [W](#)[I](#)[OPEN](#) 4044  
Teng-Kuei Huang, Chia-Li Han, Shu-I Lin, Yu-Ju Chen, Yi-Chuan Tsai, Yet-Ran Chen, June-Wei Chen, Wei-Yi Lin, Pei-Mien Chen, Tzu-Yin Liu, Ying-Shin Chen, Ching-Mei Sun, and Tzzy-Jen Chiou
- NITROGEN LIMITATION ADAPTATION, a Target of MicroRNA827, Mediates Degradation of Plasma Membrane-Localized Phosphate Transporters to Maintain Phosphate Homeostasis in *Arabidopsis*** [W](#)[I](#)[OPEN](#) 4061  
Wei-Yi Lin, Teng-Kuei Huang, and Tzzy-Jen Chiou
- Essential Role of the E3 Ubiquitin Ligase NOPPERABO1 in Schizogenous Intercellular Space Formation in the Liverwort *Marchantia polymorpha*** [W](#) 4075  
Kimitsune Ishizaki, Miya Mizutani, Masaki Shimamura, Akihide Masuda, Ryuichi Nishihama, and Takayuki Kohchi


<b>Disrupting Autophagy Restores Peroxisome Function to an <i>Arabidopsis lon2</i> Mutant and Reveals a Role for the LON2 Protease in Peroxisomal Matrix Protein Degradation</b> <a href="#">C</a> <a href="#">W</a>	4085
Lisa M. Farmer, Mauro A. Rinaldi, Pierce G. Young, Charles H. Danan, Sarah E. Burkhart, and Bonnie Bartel	
<b>Plant Purine Nucleoside Catabolism Employs a Guanosine Deaminase Required for the Generation of Xanthosine in <i>Arabidopsis</i></b> <a href="#">W</a>	4101
Kathleen Dahncke and Claus-Peter Witte	
<b>Morphine Biosynthesis in Opium Poppy Involves Two Cell Types: Sieve Elements and Laticifers</b> <a href="#">W</a> <a href="#">OPEN</a>	4110
Akpevwe Onoyovwe, Jillian M. Hagel, Xue Chen, Morgan F. Khan, David C. Schriemer, and Peter J. Facchini	
<b>A 7-Deoxyloganetic Acid Glucosyltransferase Contributes a Key Step in Secologanin Biosynthesis in Madagascar Periwinkle</b> <a href="#">C</a> <a href="#">W</a> <a href="#">OPEN</a>	4123
Keisuke Asada, Vonny Salim, Sayaka Masada-Atsumi, Elizabeth Edmunds, Mai Nagatoshi, Kazuyoshi Terasaka, Hajime Mizukami, and Vincenzo De Luca	
<b>The R2R3-MYB Transcription Factors MYB14 and MYB15 Regulate Stilbene Biosynthesis in <i>Vitis vinifera</i></b> <a href="#">W</a>	4135
Janine Höll, Alessandro Vannozzi, Stefan Czermel, Claudio D'Onofrio, Amanda R. Walker, Thomas Rausch, Margherita Lucchin, Paul K. Boss, Ian B. Dry, and Jochen Bogs	
<b><i>p</i>-Hydroxybenzoyl-Glucose Is a Zwitter Donor for the Biosynthesis of 7-Polyacylated Anthocyanin in <i>Delphinium</i></b> <a href="#">W</a>	4150
Yuzo Nishizaki, Motoki Yasunaga, Emi Okamoto, Mitsutoshi Okamoto, Yukio Hirose, Masaatsu Yamaguchi, Yoshihiro Ozeki, and Nobuhiro Sasaki	
<b>A Rice <i>cis</i>-Natural Antisense RNA Acts as a Translational Enhancer for Its Cognate mRNA and Contributes to Phosphate Homeostasis and Plant Fitness</b> <a href="#">C</a> <a href="#">W</a>	4166
Mehdi Jabnourne, David Secco, Cécile Lecampion, Christophe Robaglia, Qingyao Shu, and Yves Poirier	
<b><i>Arabidopsis</i> J-Protein J20 Delivers the First Enzyme of the Plastidial Isoprenoid Pathway to Protein Quality Control</b> <a href="#">C</a> <a href="#">W</a>	4183
Pablo Pulido, Gabriela Toledo-Ortiz, Michael A. Phillips, Louwrence P. Wright, and Manuel Rodríguez-Concepción	
<b>The Importance of Cardiolipin Synthase for Mitochondrial Ultrastructure, Respiratory Function, Plant Development, and Stress Responses in <i>Arabidopsis</i></b> <a href="#">W</a>	4195
Bernard Pineau, Mickaël Bourge, Jessica Marion, Caroline Mauve, Françoise Gilard, Lilly Maneta-Peyret, Patrick Moreau, Béatrice Satiat-Jeunemaître, Spencer C. Brown, Rosine De Paepe, and Antoine Danon	
<b>A Mediator of Singlet Oxygen Responses in <i>Chlamydomonas reinhardtii</i> and <i>Arabidopsis</i> Identified by a Luciferase-Based Genetic Screen in Algal Cells</b> <a href="#">W</a>	4209
Ning Shao, Guang You Duan, and Ralph Bock	
<b><i>Arabidopsis</i> RECEPTOR-LIKE PROTEIN30 and Receptor-Like Kinase SUPPRESSOR OF BIR1-1/EVERSHED Mediate Innate Immunity to Necrotrophic Fungi</b> <a href="#">W</a> <a href="#">OPEN</a>	4227
Weiguo Zhang, Malou Fraiture, Dagmar Kolb, Birgit Löffelhardt, Yoshitake Desaki, Freddy F.G. Boutrot, Mahmut Tör, Cyril Zipfel, Andrea A. Gust, and Frédéric Brunner	
<b>A Comprehensive Mutational Analysis of the <i>Arabidopsis</i> Resistance Protein RPW8.2 Reveals Key Amino Acids for Defense Activation and Protein Targeting</b> <a href="#">W</a>	4242
Wenming Wang, Yi Zhang, Yingqiang Wen, Robert Berkey, Xianfeng Ma, Zhiyong Pan, Dipti Bendigeri, Harlan King, Qiong Zhang, and Shunyuan Xiao	

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