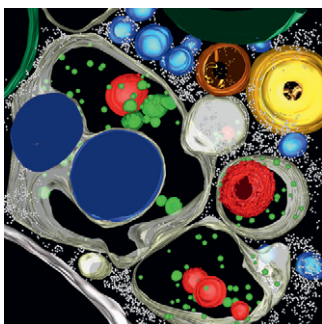


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**ON THE COVER**



Reyes et al. (pages 769–784) use a combination of molecular approaches, in vivo imaging of fluorescent proteins, and structural analysis by electron tomography to study storage proteins, such as zeins, in maize seed tissue. They investigate patterns of gene transcription and protein transport in aleurone cells and describe an atypical autophagic mechanism for the delivery of these proteins to the vacuole that may be common to cereals. The cover shows an electron tomographic reconstruction of a developing maize aleurone cell containing vacuoles with large aggregates of storage proteins (red) and intravacuolar membranes (green); mitochondria (gold), plastids (green), lipid bodies (blue), and ribosomes (gray) are abundant in the cytoplasm.

**IN BRIEF**

- How a Transient Response Becomes Transient: Autophagy Cleans up after Abscisic Acid** 429  
Nancy R. Hofmann
- A Role for ARGONAUTE in Apomixis** 430  
Nancy A. Eckardt

**REVIEW**

- Evolution and Functional Diversification of *MIRNA* Genes** 431  
Josh T. Cuperus, Noah Fahlgren, and James C. Carrington

**RESEARCH ARTICLES**

- Production of Viable Gametes without Meiosis in Maize Deficient for an ARGONAUTE Protein** 443  
Manjit Singh, Shalendra Goel, Robert B Meeley, Christelle Dantec, Hugues Parrinello, Caroline Michaud, Olivier Leblanc, and Daniel Grimanelli
- Rapid and Reversible Light-Mediated Chromatin Modifications of *Arabidopsis Phytochrome A Locus*** 459  
In-Cheol Jang, Pil Joong Chung, Hans Hemmes, Choonkyun Jung, and Nam-Hai Chua
- Network Quantitative Trait Loci Mapping of Circadian Clock Outputs Identifies Metabolic Pathway-to-Clock Linkages in *Arabidopsis*** 471  
Rachel E. Kerwin, Jose M. Jimenez-Gomez, Daniel Fulop, Stacey L. Harmer, Julin N. Maloof, and Daniel J. Kliebenstein
- LIGHT-REGULATED WD1 and PSEUDO-RESPONSE REGULATOR9 Form a Positive Feedback Regulatory Loop in the *Arabidopsis* Circadian Clock** 486  
Ying Wang, Jing-Fen Wu, Norihito Nakamichi, Hitoshi Sakakibara, Hong-Gil Nam, and Shu-Hsing Wu
- The J-Domain Protein J3 Mediates the Integration of Flowering Signals in *Arabidopsis*** 499  
Lisha Shen, Yin Ga Germain Kang, Lu Liu, and Hao Yu
- Rice MADS3 Regulates ROS Homeostasis during Late Anther Development** 515  
Lifang Hu, Wanqi Liang, Changsong Yin, Xiao Cui, Jie Zong, Xing Wang, Jianping Hu, and Dabing Zhang

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



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- The R2R3 MYB Transcription Factor DUO1 Activates a Male Germline-Specific Regulon Essential for Sperm Cell Differentiation in *Arabidopsis***   534  
Michael Borg, Lynette Brownfield, Hoda Khatab, Anna Sidorova, Melanie Lingaya, and David Twell
- vanishing tassel2* Encodes a Grass-Specific Tryptophan Aminotransferase Required for Vegetative and Reproductive Development in Maize**    550  
Kimberly A. Phillips, Andrea L. Skirpan, Xing Liu, Ashley Christensen, Thomas L. Slewinski, Christopher Hudson, Solmaz Barazesh, Jerry D. Cohen, Simon Malcomber, and Paula McSteen
- A Per-ARNT-Sim-Like Sensor Domain Uniquely Regulates the Activity of the Homeodomain Leucine Zipper Transcription Factor REVOLUTA in *Arabidopsis***    567  
Enrico Magnani and M. Kathryn Barton
- 12-Oxo-Phytodienoic Acid Accumulation during Seed Development Represses Seed Germination in *Arabidopsis***    583  
Anuja Dave, M. Luisa Hernández, Zhesi He, Vasilios M.E. Andriotis, Fabián E. Vaistij, Tony R. Larson, and Ian A. Graham
- Antisense Inhibition of the Iron-Sulphur Subunit of Succinate Dehydrogenase Enhances Photosynthesis and Growth in Tomato via an Organic Acid-Mediated Effect on Stomatal Aperture**    600  
Wagner L. Araújo, Adriano Nunes-Nesi, Sonia Osorio, Björn Usadel, Daniela Fuentes, Réka Nagy, Ilse Balbo, Martin Lehmann, Claudia Studart-Witkowski, Takayuki Tohge, Enrico Martinoia, Xavier Jordana, Fábio M. DaMatta, and Alisdair R. Fernie
- Mutation of Rice *BC12/GDD1*, Which Encodes a Kinesin-Like Protein That Binds to a GA Biosynthesis Gene Promoter, Leads to Dwarfism with Impaired Cell Elongation**    628  
Juan Li, Jiafu Jiang, Qian Qian, Yunyuan Xu, Cui Zhang, Jun Xiao, Cheng Du, Wei Luo, Guoxing Zou, Mingluan Chen, Yunqing Huang, Yuqi Feng, Zhukuan Cheng, Ming Yuan, and Kang Chong
- The *Arabidopsis* D-Type Cyclin CYCD2;1 and the Inhibitor ICK2/KRP2 Modulate Auxin-Induced Lateral Root Formation**    641  
Luis Sanz, Walter Dewitte, Celine Forzani, Farah Patell, Jeroen Nieuwland, Bo Wen, Pedro Quelhas, Sarah De Jager, Craig Titmus, Aurélio Campilho, Hong Ren, Mark Estelle, Hong Wang, and James A.H. Murray
- BENT UPPERMOST INTERNODE1* Encodes the Class II Formin FH5 Crucial for Actin Organization and Rice Development**    661  
Weibing Yang, Sulin Ren, Xiaoming Zhang, Mingjun Gao, Shenghai Ye, Yongbin Qi, Yiyan Zheng, Juan Wang, Longjun Zeng, Qun Li, Shanjin Huang, and Zuhua He
- RICE MORPHOLOGY DETERMINANT* Encodes the Type II Formin FH5 and Regulates Rice Morphogenesis**    681  
Zheng Zhang, Yi Zhang, Hexin Tan, Ying Wang, Gang Li, Wanqi Liang, Zheng Yuan, Jianping Hu, Haiyun Ren, and Dabing Zhang
- The *Arabidopsis* bHLH Transcription Factors MYC3 and MYC4 Are Targets of JAZ Repressors and Act Additively with MYC2 in the Activation of Jasmonate Responses**    701  
Patricia Fernández-Calvo, Andrea Chini, Gemma Fernández-Barbero, José-Manuel Chico, Selena Gimenez-Ibanez, Jan Geerinck, Dominique Eeckhout, Fabian Schweizer, Marta Godoy, José Manuel Franco-Zorrilla, Laurens Pauwels, Erwin Witters, María Isabel Puga, Javier Paz-Ares, Alain Goossens, Philippe Reymond, Geert De Jaeger, and Roberto Solano

<b>Metabolic Engineering in <i>Nicotiana benthamiana</i> Reveals Key Enzyme Functions in <i>Arabidopsis</i> Indole Glucosinolate Modification</b> <a href="#">W</a>	716
Marina Pfalz, Michael Dalgaard Mikkelsen, Paweł Bednarek, Carl Erik Olsen, Barbara Ann Halkier, and Juergen Kroymann	
<b>An <i>Arabidopsis</i> Dual-Localized Pentatricopeptide Repeat Protein Interacts with Nuclear Proteins Involved in Gene Expression Regulation</b> <a href="#">W</a>	730
Kamel Hammani, Anthony Gobert, Kamal Hleibieh, Laurence Choulrier, Ian Small, and Philippe Giegé	
<b>Crosstalk between Hsp90 and Hsp70 Chaperones and Heat Stress Transcription Factors in Tomato</b> <a href="#">W</a>	741
Alexander Hahn, Daniela Bublak, Enrico Schleiff, and Klaus-Dieter Scharf	
<b>Rice Two-Pore K<sup>+</sup> Channels Are Expressed in Different Types of Vacuoles</b> <a href="#">W</a>	756
Stanislav Isayenkov, Jean-Charles Isner, and Frans J.M. Maathuis	
<b>Delivery of Prolamins to the Protein Storage Vacuole in Maize Aleurone Cells</b> <a href="#">W</a>	769
Francisca C. Reyes, Taijoon Chung, David Holding, Rudolf Jung, Richard Vierstra, and Marisa S. Otegui	
<b>The <i>Arabidopsis</i> Multistress Regulator TSPO Is a Heme Binding Membrane Protein and a Potential Scavenger of Porphyrins via an Autophagy-Dependent Degradation Mechanism</b> <a href="#">W</a> <a href="#">OA</a>	785
Celine Vanhee, Grzegorz Zapotoczny, Danièle Masquelier, Michel Ghislain, and Henri Batoko	
<b>Oxidative DNA Damage Bypass in <i>Arabidopsis thaliana</i> Requires DNA Polymerase <math>\lambda</math> and Proliferating Cell Nuclear Antigen 2</b> <a href="#">W</a>	806
Alessandra Amoroso, Lorenzo Concia, Caterina Maggio, Cécile Raynaud, Catherine Bergounioux, Emmanuele Crespan, Rino Cella, and Giovanni Maga	
<b>Proteomics and Functional Analyses of Pepper <i>Abscisic Acid</i>-Responsive 1 (<i>ABR1</i>), Which Is Involved in Cell Death and Defense Signaling</b> <a href="#">W</a> <a href="#">OA</a>	823
Du Seok Choi and Byung Kook Hwang	

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