Rice leaf development is important for photosynthesis and, hence, grain yield. Zhang et al. (pages 719–735) show that SHALLOT-LIKE1 (SLL1), a SHAQKYF class MYB family transcription factor belonging to the KANADI family, modulates leaf abaxial cell development and sustains the abaxial characteristics during leaf development. SLL1 deficiency leads to defective programmed cell death of abaxial mesophyll cells and results in increased chlorophyll and photosynthesis, which may facilitate attempts to increase the photosynthetic capacity of rice. The cover image shows the defective sclerenchymatous cells on the abaxial side of sll1-1 leaves resulting in a broader distribution of mesophyll cells.
Light Regulation of Gibberellin Biosynthesis in Pea Is Mediated through the COP1/HY5 Pathway

James L. Weller, Valérie Hecht, Jacqueline K. Vander Schoor, Sandra E. Davidson, and John J. Ross

Suppression of the Barley *uroporphyrinogen III synthase* Gene by a *Ds* Activation Tagging Element Generates Developmental Photosensitivity

Michael A. Ayliffe, Anthony Agostino, Bryan C. Clarke, Robert Furbank, Susanne von Caemmerer, and Anthony J. Pryor

Tissue- and Expression Level–Specific Chromatin Looping at Maize *b1* Epialleles

Marieke Louwers, Rechien Bader, Max Haring, Roel van Driel, Wouter de Laat, and Maike Stam

Statolith Sedimentation Kinetics and Force Transduction to the Cortical Endoplasmic Reticulum in Gravity-Sensing Arabidopsis Columella Cells

Guenther Leitz, Byung-Ho Kang, Monica E.A. Schoenwaelder, and L. Andrew Staehelin

Characterization of Solanum tuberosum Multicystatin and Its Structural comparison with Other Cystatins

Mark S. Nissen, G.N. Mohan Kumar, Buhyun Youn, D. Benjamin Knowles, Ka Sum Lam, W. Jordan Ballinger, N. Richard Knowles, and ChulHee Kang

Uridine-Ribohydrolase Is a Key Regulator in the Uridine Degradation Pathway of Arabidopsis

Benjamin Jung, Martin Flörchinger, Hans-Henning Kunz, Michaela Traub, Ruth Wartenberg, Wolfgang Jeblick, H. Ekkehard Neuhaus, and Torsten Möhlmann

A Chloroplastic UDP-Glucose Pyrophosphorylase from Arabidopsis Is the Committed Enzyme for the First Step of Sulfolipid Biosynthesis


Disruption of Adenosine-5'-Phosphosulfate Kinase in Arabidopsis Reduces Levels of Sulfated Secondary Metabolites

Sarah G. Mugford, Naoko Yoshimoto, Michael Reichelt, Markus Wirtz, Lionel Hill, Sam T. Mugford, Yoshimi Nakazato, Masaaki Noji, Hideki Takahashi, Robert Kramell, Tamara Gigolashvili, Ulf-Ingo Flügge, Claus Wasternack, Jonathan Gershenzon, Rüdiger Hell, Kazuki Saito, and Stanislav Kopriva

Two Chlamydomonas CTR Copper Transporters with a Novel Cys-Met Motif Are Localized to the Plasma Membrane and Function in Copper Assimilation

M. Dudley Page, Janette Kropat, Patrice P. Hamel, and Sabeeha S. Merchant

Mitogen-Activated Protein Kinases 3 and 6 Are Required for Full Priming of Stress Responses in Arabidopsis

Gerold J.M. Beckers, Michal Jaskiewicz, Yidong Liu, William R. Underwood, Sheng Yang He, Shuqun Zhang, and Uwe Conrath

Methyl Salicylate Production and Jasmonate Signaling Are Not Essential for Systemic Acquired Resistance in Arabidopsis

Elham Attaran, Tatiana E. Zeier, Thomas Griebel, and Jürgen Zeier

Roles for Arabidopsis CAMTA Transcription Factors in Cold-Regulated Gene Expression and Freezing Tolerance

Colleen J. Doherty, Heather A. Van Buskirk, Susan J. Myers, and Michael F. Thomashow

The Gene Controlling the Indole Glucosinolate Modifier Quantitative Trait Locus Alters Indole Glucosinolate Structures and Aphid Resistance in Arabidopsis

Marina Pfalz, Heiko Vogel, and Juergen Kroymann
HISTONE MONOUBIQUITINATION1 Interacts with a Subunit of the Mediator Complex and Regulates Defense against Necrotrophic Fungal Pathogens in *Arabidopsis*  

Rahul Dhawan, Hongli Luo, Andrea Maria Foerster, Synan AbuQamar, Hai-Ning Du, Scott D. Briggs, Ortrun Mittelsten Scheid, and Tesfaye Mengiste

CORRECTIONS


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