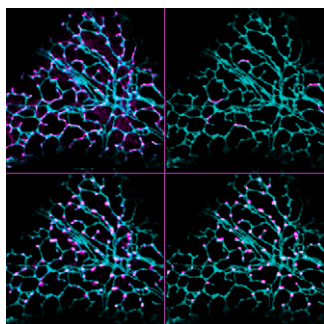


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PLANT
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Volume 21 Number 12 December 2009

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ON THE COVER



Sparkes et al. (pages 3937–3949) use a novel analytical tool to investigate the relative roles of actin, microtubules, myosin, and Golgi bodies on the form and movement of the endoplasmic reticulum (ER) in tobacco leaf epidermal cells. The images show the persistency of microtubules (magenta, top two panels) or cisternae (magenta, bottom two panels) over 80 s of examination. The left panels show all tubules and cisternal structures; the right panels show only those tubules or cisternae large enough and persistent enough for counting. Cyan in all panels shows an ER marker linked to green fluorescent protein. The authors conclude that it is the actin myofilaments and, to some extent, certain myosins, and not microtubules, that drive changes in the form of the ER network and directionality of flow within the ER membrane.

EDITORIAL

ASPB Journals Launch CrossCheck 3715
Cathie Martin and Don Ort

IN BRIEF

Functional and Phylogenetic Analysis of the Glutathione Transferase Gene Family in Poplar 3716
Jennifer Mach and David Baum

Dynamic Histone Modifications in Light-Regulated Gene Expression 3717
Nancy R. Hofmann

PERSPECTIVE: SPECIAL SERIES ON LARGE-SCALE BIOLOGY

PLAZA: A Comparative Genomics Resource to Study Gene and Genome Evolution in Plants 3718
Sebastian Proost, Michiel Van Bel, Lieven Sterck, Kenny Billiau, Thomas Van Parys, Yves Van de Peer, and Klaas Vandepoele

RESEARCH ARTICLES

Dynamic Landscapes of Four Histone Modifications during Deetiolation in *Arabidopsis* 3732
Jean-Benoit F. Charron, Hang He, Axel A. Elling, and Xing Wang Deng

Extensive Functional Diversification of the *Populus* Glutathione S-Transferase Supergene Family 3749
Ting Lan, Zhi-Ling Yang, Xue Yang, Yan-Jing Liu, Xiao-Ru Wang, and Qing-Yin Zeng

Antagonistic HLH/bHLH Transcription Factors Mediate Brassinosteroid Regulation of Cell Elongation and Plant Development in Rice and *Arabidopsis* 3767
Li-Ying Zhang, Ming-Yi Bai, Jinxia Wu, Jia-Ying Zhu, Hao Wang, Zhiguo Zhang, Wenfei Wang, Yu Sun, Jun Zhao, Xuehui Sun, Hongjuan Yang, Yunyuan Xu, Soo-Hwan Kim, Shozo Fujioka, Wen-Hui Lin, Kang Chong, Tiegang Lu, and Zhi-Yong Wang

Regulation of *Arabidopsis* Brassinosteroid Signaling by Atypical Basic Helix-Loop-Helix Proteins 3781
Hao Wang, Yongyou Zhu, Shozo Fujioka, Tadao Asami, Jiayang Li, and Jianming Li

Mutations of an α 1,6 Mannosyltransferase Inhibit Endoplasmic Reticulum-Associated Degradation of Defective Brassinosteroid Receptors in *Arabidopsis* 3792
Zhi Hong, Hua Jin, Anne-Catherine Fitchette, Yang Xia, Andrew M. Monk, Loïc Faye, and Jianming Li

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



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- Ethylene Interacts with Abscisic Acid to Regulate Endosperm Rupture during Germination: A Comparative Approach Using *Lepidium sativum* and *Arabidopsis thaliana*** [W](#)[O](#)[A](#) 3803
Ada Linkies, Kerstin Müller, Karl Morris, Veronika Turečková, Meike Wenk, Cassandra S.C. Cadman, Françoise Corbineau, Miroslav Strnad, James R. Lynn, William E. Finch-Savage, and Gerhard Leubner-Metzger
- Auxin Response in *Arabidopsis* under Cold Stress: Underlying Molecular Mechanisms** [C](#)[W](#) 3823
Kyohei Shibasaki, Matsuo Uemura, Seiji Tsurumi, and Abidur Rahman
- PIN Auxin Efflux Carrier Polarity Is Regulated by PINOID Kinase-Mediated Recruitment into GNOM-Independent Trafficking in *Arabidopsis*** [C](#)[W](#) 3839
Jürgen Kleine-Vehn, Fang Huang, Satoshi Naramoto, Jing Zhang, Marta Michniewicz, Remko Offringa, and Jiří Friml
- Class I α -Mannosidases Are Required for N-Glycan Processing and Root Development in *Arabidopsis thaliana*** [C](#)[W](#)[O](#)[A](#) 3850
Eva Liebminger, Silvia Hüttner, Ulrike Vavra, Richard Fischl, Jennifer Schoberer, Josephine Grass, Claudia Blaukopf, Georg J. Seifert, Friedrich Altmann, Lukas Mach, and Richard Strasser
- Arabidopsis* Formin3 Directs the Formation of Actin Cables and Polarized Growth in Pollen Tubes** [W](#) 3868
Jianrong Ye, Yiyang Zheng, An Yan, Naizhi Chen, Zhangkui Wang, Shanjin Huang, and Zhenbiao Yang
- DGAT1 and PDAT1 Acyltransferases Have Overlapping Functions in *Arabidopsis* Triacylglycerol Biosynthesis and Are Essential for Normal Pollen and Seed Development** [W](#)[O](#)[A](#) 3885
Meng Zhang, Jilian Fan, David C. Taylor, and John B. Ohlrogge
- A Gain-of-Function Mutation of *Arabidopsis* Lipid Transfer Protein 5 Disturbs Pollen Tube Tip Growth and Fertilization** [C](#)[W](#) 3902
Keun Chae, Chris A. Kieslich, Dimitrios Morikis, Seung-Chul Kim, and Elizabeth M. Lord
- Two Types of Meiotic Crossovers Coexist in Maize** [W](#) 3915
Mathieu Falque, Lorinda K. Anderson, Stephen M. Stack, Franck Gauthier, and Olivier C. Martin
- Cell Type-Specific Chromatin Decondensation of a Metabolic Gene Cluster in Oats** [C](#)[W](#)[O](#)[A](#) 3926
Eva Wegel, Rachil Koumproglou, Peter Shaw, and Anne Osbourn
- Movement and Remodeling of the Endoplasmic Reticulum in Nondividing Cells of Tobacco Leaves** [W](#) 3937
I. Sparkes, J. Runions, C. Hawes, and L. Griffing
- Phosphorylation of Photosystem II Controls Functional Macroscopic Folding of Photosynthetic Membranes in *Arabidopsis*** [C](#)[W](#)[O](#)[A](#) 3950
Rikard Fristedt, Adrian Willig, Pontus Granath, Michèle Crèvecoeur, Jean-David Rochaix, and Alexander V. Vener
- Arabidopsis* Tic62 and Ferredoxin-NADP(H) Oxidoreductase Form Light-Regulated Complexes That Are Integrated into the Chloroplast Redox Poise** [C](#)[W](#) 3965
J.P. Benz, A. Stengel, M. Lintala, Y.-H. Lee, A. Weber, K. Philippar, I.L. Gügel, S. Kaieda, T. Ikegami, P. Mulo, J. Soll, and B. Bötter
- Heat Shock Protein Cognate 70-4 and an E3 Ubiquitin Ligase, CHIP, Mediate Plastid-Destined Precursor Degradation through the Ubiquitin-26S Proteasome System in *Arabidopsis*** [C](#)[W](#) 3984
Sookjin Lee, Dong Wook Lee, Yongjik Lee, Ulrike Mayer, York-Dieter Stierhof, Sumin Lee, Gerd Jürgens, and Inhwan Hwang
- The Small Subunit of Snapdragon Geranyl Diphosphate Synthase Modifies the Chain Length Specificity of Tobacco Geranylgeranyl Diphosphate Synthase in *Planta*** [W](#) 4002
Irina Orlova, Dinesh A. Nagegowda, Christine M. Kish, Michael Gutensohn, Hiroshi Maeda, Marina Varbanova, Eyal Fridman, Shinjiro Yamaguchi, Atsushi Hanada, Yuji Kamiya, Alexander Krichevsky, Vitaly Citovsky, Eran Pichersky, and Natalia Dudareva

- A Root-Expressed Magnesium Transporter of the *MRS2/MGT* Gene Family in *Arabidopsis thaliana* Allows for Growth in Low-Mg²⁺ Environments**  **4018**
Michael Gebert, Karoline Meschenmoser, Soňa Svidová, Julian Weghuber, Rudolf Schweyen, Karolin Eifler, Henning Lenz, Katrin Weyand, and Volker Knoop
- Orthologs of the Class A4 Heat Shock Transcription Factor HsfA4a Confer Cadmium Tolerance in Wheat and Rice**   **4031**
Donghwan Shim, Jae-Ung Hwang, Joohyun Lee, Sichul Lee, Yunjung Choi, Gynheung An, Enrico Martinoia, and Youngsook Lee
- Quantitative Proteomics of the Tonoplast Reveals a Role for Glycolytic Enzymes in Salt Tolerance**   **4044**
Bronwyn J. Barkla, Rosario Vera-Estrella, Marcela Hernández-Coronado, and Omar Pantoja

CORRECTION

- Undine Krügel, Liesbeth M. Veenhoff, Jennifer Langbein, Elena Wiederhold, Johannes Liesche, Thomas Friedrich, Bernhard Grimm, Enrico Martinoia, Bert Poolman, and Christina Kühn. (2008) Transport and Sorting of the *Solanum tuberosum* Sucrose Transporter SUT1 Is Affected by Posttranslational Modification. *Plant Cell* 20: 2497–2513. **4059**

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The Plant Cell (ISSN 1040-4651, online ISSN 1531-298X) 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. A subscription includes both *The Plant Cell* and *Plant Physiology*; single copies may be purchased for \$95 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 \$185. Nonmember individuals may subscribe for \$375. 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. 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. Periodicals postage paid at Rockville, MD 20850, and at additional mailing offices.

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