ON THE COVER

Transition from meiotic to mitotic divisions directly leads to the onset of embryogenesis in animals. By contrast, plant meiospores first develop into the haploid generation of the gametophyte, requiring additional mitotic divisions. On pages 4974–4991, Juranic et al. report that a protein homologous to a key animal protein regulating meiosis–mitosis transition is required to organize the second meiotic and first mitotic spindle apparatus in maize. Silencing of the germ line–specific MATH-BTB domain gene MAB1 causes defects in spindle organization together with chromosome loss during meiotic divisions and failure to establish germ cell fate during the first asymmetric mitotic divisions in both germ lines. The cover image shows a tetrad of maize microspores with fluorescently labeled microtubules and DAPI-stained nuclei.

IN BRIEF

A Tripartite Growth Regulatory Cascade of Basic Helix-Loop-Helix Transcription Factors 4775
Nancy R. Hofmann

Crosstown Trafficking: The Retromer Complex Component VPS29 and Recycling of the Vacuolar Sorting Receptor 4776
Jennifer Mach

REVIEW

The Promiscuous Life of Plant NUCLEAR FACTOR Y Transcription Factors 4777
Katia Petroni, Roderick W. Kumimoto, Nerina Gnesutta, Valentina Calvenzani, Monica Fornari, Chiara Tonelli, Ben F. Holt, III and Roberto Mantovani

LARGE-SCALE BIOLOGY ARTICLE

GWAPP: A Web Application for Genome-Wide Association Mapping in Arabidopsis 4793
Ümit Seren, Bjarni J. Vilhjálmsson, Matthew W. Horton, Dazhe Meng, Petar Forai, Yu S. Huang, Quan Long, Vincent Segura, and Magnus Nordborg

RESEARCH ARTICLES

Ln Is a Key Regulator of Leaflet Shape and Number of Seeds per Pod in Soybean 4807
Namhee Jeong, Su Jeoung Suh, Min-Hee Kim, Seukki Lee, Jung-Kyung Moon, Hong Sig Kim, and Soon-Chun Jeong

Evolution from the Prokaryotic to the Higher Plant Chloroplast Signal Recognition Particle: The Signal Recognition Particle RNA Is Conserved in Plastids of a Wide Range of Photosynthetic Organisms 4819
Chantal Träger, Magnus Alm Rosenblad, Dominik Ziehe, Christel Garcia-Petit, Lukas Schrader, Klaus Kock, Christine Vera Richter, Birgit Klinkert, Franz Narberhaus, Christian Herrmann, Eckhard Hofmann, Henrik Aronsson, and Danja Schünemann

miR156 and miR390 Regulate tasiRNA Accumulation and Developmental Timing in Physcomitrella patens 4837
Sung Hyun Cho, Ceyda Coruh, and Michael J. Axtell

Target of Rapamycin Signaling Regulates Metabolism, Growth, and Life Span in Arabidopsis 4850
Maozhi Ren, Prakash Venglat, Shuqing Qiu, Li Feng, Yongguo Cao, Edwin Wang, Daoquan Xiang, Jinghe Wang, Danny Alexander, Subbaiah Chalivendra, David Logan, Autar Mattoo, Gopalan Selvaraj, and Raju Datla
A Dominant Point Mutation in a RINGv E3 Ubiquitin Ligase Homoeologous to Arabidopsis.

Gene Leads to Cleistogamy in Brassica napus by a Dominant Point Mutation in a RINGv E3 Ubiquitin Ligase Homoeologous to Arabidopsis.

Yun-Hai Lu, Dominique Arnaud, Harry Belcram, Cyril Falentin, Patricia Rouault, Nathalie Piel, Marie-Odile Lucas, Jérémy Just, Michel Renard, Régine Delourme, and Boulos Chalhoub

The SWI2/SNF2 Chromatin Remodeling ATPase BRAHMA Represses Abscisic Acid Responses in the Absence of the Stress Stimulus in Arabidopsis thaliana.

Soon-Ki Han, Yi Sang, Americo Rodrigues, BIOL425 P2010, Miin-Feng Wu, Pedro L. Rodriguez, and Doris Wagner

Soluble Carbohydrates Regulate Auxin Biosynthesis via PIF Proteins in Arabidopsis.

Ilkka Sairanen, Ondřej Novák, Aleš Pěnčík, Yoshihisa Ikeda, Brian Jones, Göran Sandberg, and Karin Ljung


Ming-Yi Bai, Min Fan, Eunkyoo Oh, and Zhi-Yong Wang

LSM Proteins Provide Accurate Splicing and Decay of Selected Transcripts to Ensure Normal Arabidopsis Development.

Carlos Perea-Resa, Tamara Hernández-Verdeja, Rosa López-Cobollo, María del Mar Castellano, and Julio Salinas

A MAPK Cascade Downstream of ERECTA Receptor-Like Protein Kinase Regulates Arabidopsis Inflorescence Architecture by Promoting Localized Cell Proliferation.

Xiangzong Meng, Huachun Wang, Yunxia He, Yidong Liu, John C. Walker, Keiko U. Torii, and Shuqun Zhang

BRK1, a Bub1-Related Kinase, Is Essential for Generating Proper Tension between Homologous Kinetochores at Metaphase I of Rice Meiosis.

Mo Wang, Ding Tang, Qiong Luo, Yi Jin, Yi Shen, Kejian Wang, and Zhukuan Cheng

Germline-Specific MATH-BTB Substrate Adaptor MAB1 Regulates Spindle Length and Nuclei Identity in Maize.

Martina Juranic, Kanokorn Srilunchang, Nadia Graciele Krohn, Dunja Leijak-Levanič, Stefanie Sprunck, and Thomas Dresselhaus

PSBP-DOMAIN PROTEIN1, a Nuclear-Encoded Thylakoid Lumenal Protein, Is Essential for Photosystem I Assembly in Arabidopsis.

Jun Liu, Huixia Yang, Qingtao Lu, Xiaogang Wen, Fan Chen, Linwei Peng, Lixin Zhang, and Congming Lu

WRINKLED Transcription Factors Orchestrate Tissue-Specific Regulation of Fatty Acid Biosynthesis in Arabidopsis.

Alexandra To, Jérôme Joubé, Guillaume Bartholle, Alain Lécureuil, Aurélie Scagnelli, Sophie Jasinski, Loïc Lepiniec, and Sébastien Baud

Pectin Biosynthesis: GALS1 in Arabidopsis thaliana is a β-1,4-Galactan  β-1,4-Galactosyltransferase.

April Jennifer Madrid Liwanag, Berit Ebert, Yves Verheertbruggen, Emilie A. Rennie, Carsten Rautengarten, Al Oikawa, Mathias C.F. Andersen, Mads H. Clausen, and Henrik Vibe Scheller

Mitochondrial Targeting of the Arabidopsis F1-ATPase γ-Subunit via Multiple Compensatory and Synergistic Presequence Motifs.

Sumin Lee, Dong Wook Lee, Yun-Joo Yoo, Owen Duncan, Young Jun Oh, Yong Jik Lee, Goen Lee, James Whelan, and Inhwan Hwang


Hyangju Kang, Soo Yoon Kim, Kyungyoung Song, Eun Ju Sohn, Yongjik Lee, Dong Wook Lee, Ikuko Hara-Nishimura, and Inhwan Hwang

Crystal Structure of Rice Importin-α and Structural Basis of its Interaction with Plant-Specific Nuclear Localization Signals.

Chiuung-Wen Chang, Rafael Lemos Miguez Couñago, Simon J. Williams, Mikael Bodén, and Boštjan Kobe
The R2R3-MYB–Like Regulatory Factor EOBI, Acting Downstream of EOBII, Regulates Scent Production by Activating ODO1 and Structural Scent-Related Genes in Petunia

Ben Spitzer-Rimon, Moran Farhi, Boaz Albo, Alon Cna’ani, Michal Moyal Ben Zvi, Tania Masci, Ort Edelbaum, Yixun Yu, Elena Shklarman, Marianna Ovadis, and Alexander Vainstein

UBIQUITIN-SPECIFIC PROTEASE16 Modulates Salt Tolerance in Arabidopsis by Regulating Na+/H+ Antiport Activity and Serine Hydroxymethyltransferase Stability

Huapeng Zhou, Jinfeng Zhao, Yongqing Yang, Changxi Chen, Yanfen Liu, Xuehua Jin, Limei Chen, Xueyong Li, Xing Wang Deng, Karen S. Schumaker, and Yan Guo

Pipolic Acid, an Endogenous Mediator of Defense Amplification and Priming, Is a Critical Regulator of Inducible Plant Immunity

Hana Návarová, Friederike Bernsdorff, Anne-Christin Döring, and Jürgen Zeier

Relocalization of Late Blight Resistance Protein R3a to Endosomal Compartments Is Associated with Effector Recognition and Required for the Immune Response

Stefan Engelhardt, Petra C. Boevink, Miles R. Armstrong, Maria Brisa Ramos, Ingo Hein, and Paul R.J. Birch

In Planta Stage-Specific Fungal Gene Profiling Elucidates the Molecular Strategies of Fusarium graminearum Growing inside Wheat Coleoptiles

Xiao-Wei Zhang, Lei-Jie Jia, Yan Zhang, Gang Jiang, Xuan Li, Dong Zhang, and Wei-Hua Tang

Natural Variation in Small Molecule–Induced TIR-NB-LRR Signaling Induces Root Growth Arrest via EDS1- and PAD4-Complexed R Protein VICTR in Arabidopsis

Tae-Houn Kim, Hans-Henning Kunz, Saikat Bhattacharjee, Felix Hauser, Jiyoung Park, Cawas Engineer, Amy Liu, Tracy Ha, Jane E. Parker, Walter Gassmann, and Julian I. Schroeder

CORRECTION


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