ON THE COVER

The development of nitrogen-fixing nodules in legumes requires signaling through cytokinin receptors, but the mechanism of action of cytokinin in nodule organogenesis remains poorly understood. Ng et al. (pages 2210–2226) report in this issue that cytokinin signaling is required for the induction of flavonoids that control polar auxin transport and auxin accumulation to initiate nodule formation. The figure shows a successfully infected nodule of *Medicago truncatula*. Nitrogen-fixing rhizobia expressing green fluorescent protein can be seen in the center of the nodule. The blue autofluorescence seen in cells in the periphery of the nodule is due to flavonoids.

IN BRIEF

Taking Hormone Crosstalk to a New Level: Brassinosteroids Regulate Gibberellin Biosynthesis
Nancy R. Hofmann

2081

Altering Lignin Composition to Improve Biofuel Production
Jennifer Lockhart

2082

COMMENTARY

Lost in Translation: Pitfalls in Deciphering Plant Alternative Splicing Transcripts
John W.S. Brown, Craig G. Simpson, Yamile Marquez, Geoffrey M. Gadd, Andrea Barta, and Maria Kalyna

2083

PERSPECTIVE

Reassess the t Test: Interact with All Your Data via ANOVA

2088

REVIEW

The Plant Peptidome: An Expanding Repertoire of Structural Features and Biological Functions
Patrizia Tavormina, Barbara De Coninck, Natalia Nikonorova, Ive De Smet, and Bruno P.A. Cammue

2095

LARGE-SCALE BIOLOGY ARTICLES

Conserved Gene Expression Programs in Developing Roots from Diverse Plants
Ling Huang and John Schiefelbein

2119

Characteristics of Plant Essential Genes Allow for within- and between-Species Prediction of Lethal Mutant Phenotypes
John P. Lloyd, Alexander E. Seddon, Gaurav D. Moghe, Matthew C. Simenc, and Shin-Han Shiu

2133
Comprehensive Annotation of Physcomitrella patens Small RNA Loci Reveals That the Heterochromatic Short Interfering RNA Pathway Is Largely Conserved in Land Plants

Ceyda Coruh, Sung Hyun Cho, Saima Shahid, Qikun Liu, Andrzej Wierzbicki, and Michael J. Axtell

RESEARCH ARTICLES

Novel DICER-LIKE1 siRNAs Bypass the Requirement for DICER-LIKE4 in Maize Development

Katherine Petsch, Priscilla S. Manzotti, Oliver H. Tam, Robert Meeley, Molly Hammell, Gabriella Consomni, and Marja C.P. Timmermans

Small RNA Derived from the Virulence Modulating Region of the Potato spindle tuber viroid Silences callose synthase Genes of Tomato Plants

Charith Raj Adkar-Purushothama, Chantal Brosseau, Tamara Giguére, Teruo Sano, Peter Moffett, and Jean-Pierre Perreau

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Nickolas A. Anderson, Yuki Tobimatsu, Peter N. Ciesielski, Eduardo Ximenes, John Ralph, Bryon S. Donohoe, Michael Ladisch, and Clint Chapple

Flavonoids and Auxin Transport Inhibitors Rescue Symbiotic Nodulation in the Medicago truncatula Cytokinin Perception Mutant cre1

Jason Liang Pin Ng, Samira Hassan, Thy T. Truong, Charles H. Hocart, Carole Laffont, Florian Frugier, and Ulrike Mathesius

Quantitative Variation in Responses to Root Spatial Constraint within Arabidopsis thaliana

Bindu Joseph, Lillian Lau, and Daniel J. Kliebenstein

Crosstalk between Two bZIP Signaling Pathways Orchestrates Salt-Induced Metabolic Reprogramming in Arabidopsis Roots

Laura Hartmann, Lorenzo Pedrotti, Christoph Weiste, Agnes Fekete, Jasper Schierstaedt, Jasmin Göttler, Stefan Kempa, Markus Krischke, Katrin Dietrich, Martin J. Mueller, Jesus Vicente-Carbajosa, Johannes Hanson, and Wolfgang Droge-Laser

Brassinosteroids Are Master Regulators of Gibberellin Biosynthesis in Arabidopsis

Simon J. Unterholzner, Wilfried Rozhon, Michael Papacek, Jennifer Giomas, Theo Lange, Karl G. Kugler, Klaus F. Mayer, Tobias Sieberer, and Brigitte Poppenberger

A Repressor Protein Complex Regulates Leaf Growth in Arabidopsis

Nathalie Gonzalez, Lauren’s Pauwels, Alexandra Baekelandt, Liesbeth De Milde, Jelle Van Leene, Nienke Besbrugge, Ken S. Heyndrickx, Amparo Cuéllar Pérez, Astrid Nagels Durand, Rebecca De Clercq, Eveline Van De Slijke, Robin Vanden Bossche, Dominique Eckkhour, Kris Gevaert, Klaas Vandepoele, Geert De Jaeger, Alain Goossens, and Dirk Inzé
Conserved Functions of the MATE Transporter BIG EMBRYO1 in Regulation of Lateral Organ Size and Initiation Rate

Masaharu Suzuki, Yutaka Sato, Shan Wu, Byung-Ho Kang, and Donald R. McCarty

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