IN BRIEF

Never Let a Good Crisis Go to Waste: The Kinesin ARK1 Promotes Microtubule Catastrophe during Root Hair Development

Jennifer Lockhart

Modeling Sugar Metabolism in Tomato Fruit

Jennifer Mach

LARGE-SCALE BIOLOGY ARTICLE

Model-Assisted Analysis of Sugar Metabolism throughout Tomato Fruit Development Reveals Enzyme and Carrier Properties in Relation to Vacuole Expansion

Bertrand P. Beauvoit, Sophie Colombié, Antoine Monier, Marie-Hélène Andrieu, Benoît Blais, Camille Bénard, Catherine Chéniclet, Martine Dieuaide-Noubhani, Christine Nazaret, Jean-Pierre Mazat, and Yves Gibon

RESEARCH ARTICLES

Comparative Transcriptome Atlases Reveal Altered Gene Expression Modules between Two Cleomaceae C₃ and C₄ Plant Species


eQTL Mapping of Transposon Silencing Reveals a Position-Dependent Stable Escape from Epigenetic Silencing and Transposition of AtMu1 in the Arabidopsis Lineage

Tina Kabelitz, Christian Kappel, Kirstin Henneberger, Eileen Benke, Christiane Nöh, and Isabel Bäurle

Analysis of Natural and Induced Variation in Tomato Glandular Trichome Flavonoids Identifies a Gene Not Present in the Reference Genome

Jeongwoon Kim, Yuki Matsuba, Jing Ning, Anthony L. Schilmiller, Dagan Hammar, A. Daniel Jones, Eran Pichersky, and Robert L. Last

Production of Bioactive Diterpenoids in the Euphorbiaceae Depends on Evolutionarily Conserved Gene Clusters

Andrew J. King, Geoffrey D. Brown, Alison D. Gilday, Tony R. Larson, and Ian A. Graham
Pollen-Specific Activation of Arabidopsis Retrogenes Is Associated with Global Transcriptional Reprogramming

Ahmed Abdelsamad and Ales Pecinka

Identification of a Sphingolipid α-Glucuronosyltransferase That Is Essential for Pollen Function in Arabidopsis

Emilie A. Rennie, Berit Ebert, Godfrey P. Miles, Rebecca E. Cahoon, Katy M. Christiansen, Solomon Stonebloom, Hoda Khatab, David Twell, Christopher J. Petzold, Paul D. Adams, Paul Dupree, Joshua L. Heazlewood, Edgar B. Cahoon, and Henrik Vibe Scheller

The Arabidopsis 14-3-3 Protein RARE COLD INDUCIBLE 1A Links Low-Temperature Response and Ethylene Biosynthesis to Regulate Freezing Tolerance and Cold Acclimation

Rafael Catalá, Rosa López-Cobollo, M. Mar Castellano, Trinidad Angosto, José M. Alonso, Joseph R. Ecker, and Julio Salinas

A Mitogen-Activated Protein Kinase Cascade Module, MKK3-MPK6 and MYC2, Is Involved in Blue Light-Mediated Seedling Development in Arabidopsis

Vishmita Sethi, Badmi Raghuram, Alok Krishna Sinha, and Sudip Chattopadhyay

Manipulation of Mitogen-Activated Protein Kinase Kinase Signaling in the Arabidopsis Stomatal Lineage Reveals Motifs That Contribute to Protein Localization and Signaling Specificity

Gregory R. Lampard, Diego L. Wengier, and Dominique C. Bergmann

The ABC Transporter ABCG1 Is Required for Suberin Formation in Potato Tuber Periderm

Juan Li, Yu Long, Guo-Ning Qi, Juan Li, Zi-Jian Xu, Wei-Hua Wu, and Yi Wang

Dynamics of Vacuoles and H+-Pyrophosphatase Visualized by Monomeric Green Fluorescent Protein in Arabidopsis: Artifactual Bulbs and Native Intravacuolar Spherical Structures

Shoji Segami, Sachi Miyake, Ai Miyake, Mariko Asaoka, and Masayoshi Maeshima

Functional Characterization of the Small Regulatory Subunit PetP from the Cytochrome b6f Complex in Thermosynechococcus elongatus

Sascha Rexroth, Dorothea Rexroth, Sebastian Veit, Nicole Plohnke, Kai U. Cormann, Marc M. Nowaczyk, and Matthias Rögner
Loss of Ceramide Kinase in *Arabidopsis* Impairs Defenses and Promotes Ceramide Accumulation and Mitochondrial H$_2$O$_2$ Bursts

Fang-Cheng Bi, Zhe Liu, Jian-Xin Wu, Hua Liang, Xue-Li Xi, Ce Fang, Tie-Jun Sun, Jian Yin, Guang-Yi Dai, Chan Rong, Jean T. Greenberg, Wei-Wei Su, and Nan Yao

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