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Rachel Davidovich-Rikanati, Efraim Lewinsohn, Einat Bar, Yoko Iijima, Eran Pichersky, Yaron Sitrit

26S proteasome regulatory particle mutants have increased oxidative stress tolerance

Jasmina Kurepa, Akio Toh-e, Jan A. Smalle

Auto-regulation of the circadian slave oscillator component AtGRP7 and regulation of its targets is impaired by a single RNA recognition motif point mutation

Jan C. Schöning, Corinna Streitner, Damian R. Page, Sven Hennig, Kenko Uchida, Eva Wolf, Masaki Furuya, Dorothee Staiger

Transgenic, non-isoprene emitting poplars don't like it hot

Katja Behnke, Barbara Ehling, Markus Teuber, Martina Bauerfeind, Sandrine Louis, Robert Hänsch, Andrea Polle, Jörg Bohlmann and Jörg-Peter Schnitzler

MAX2 participates in an SCF complex which acts locally at the node to suppress shoot branching

Petra Stirnberg, Ian J. Furner and H. M. Ottoline Leyser

Making sense of nectar scents: the effects of nectar secondary metabolites on floral visitors of *Nicotiana attenuata*

Danny Kessler and Ian T. Baldwin

The Maize *Mucronate* Mutation is a Deletion in the 16-kDa γ -Zein Gene that Induces the Unfolded Protein Response

Cheol-Soo Kim, Bryan Gibbon, Jeffrey Gillikin, Brian Larkins, Rebecca Boston, Rudolf Jung

A small acidic protein 1 (SMAP1) mediates responses of the arabidopsis root to the synthetic auxin 2,4-dichlorophenoxyacetic acid

Abidur Rahman, Akari Nakasone, Tory Chhun, Chiharu Ooura, Kamal Biswas, Hirofumi Uchimiya, Seiji Tsurumi, Tobias Baskin, Atsushi Tanaka, Yutaka Oono, Dr. Yutaka Oono

Identification and characterization of Arabidopsis gibberellin receptors

Masatoshi Nakajima, Asako Shimada, Yoshiyuki Takashi, Young-Cheon Kim, Seung-Hyun Park, Miyako eguchi-Tanaka, Hiroyuki Suzuki, Etsuko Kato, Satoshi Iuchi, Masatomo Kobayashi, Tatsuya Maeda, Makoto Matsuoka, Isomaro Yamaguchi

ABERRANT TESTA SHAPE encodes a KANADI family member, linking polarity determination to separation and growth of Arabidopsis ovule integuments

Jessica Messmer McAbee, Theresa Hill, Debra Skinner, Anat Izhaki, Bernard Hauser, Robert Meister, G. Venugopala Reddy 8) Elliot Meyerowitz, John Bowman, Charles Gasser

Evidence for folate salvage reactions in plants

Giuseppe Orsomando, Gale Bozzo, Rocío Díaz de la Garza, Gilles Basset, Eoin Quinlivan, Valeria Naponelli, Fabrice Rébeillé, Stéphane Ravel, Jesse Gregory, Andrew Hanson

An *in vivo* internal deletion in the N-terminus region of Arabidopsis cystathionine γ -synthase results in CGS expression that is insensitive to methionine

Yael Hacham, Gadi Schuster and Rachel Amir

Elimination of deleterious mutations in plastid genomes by gene conversion

Olga Khakhlova and Ralph Bock

Characterization of a novel putative zinc finger gene *MIF1*: involvement in multiple hormonal regulation of Arabidopsis development

Wei Hu and Hong Ma

High-frequency homologous recombination in plants mediated by zinc-finger nucleases

David A. Wright, Jeffrey A. Townsend, Ronnie Joe Winfrey Jr, Phillip A. Irwin, Jyothi Rajagopal, Patricia M. Lonosky, Bradford D. Hall, Michael D. Jondle and Daniel F. Voytas

Origins, genetic organization and transcription of a family of non-autonomous helitron elements in maize

Stephan Brunner, Giorgio Pea and Antoni Rafalski

Interaction of *Arabidopsis* BRASSINOSTEROID-INSENSITIVE 1 receptor kinase with a homolog of mammalian TGF- receptor interacting protein

Hashimul Ehsan, William Keith Ray, Brett Phinney, Xiaofeng Wang, Steven C. Huber, Steven D. Clouse

Two sesquiterpene synthases are responsible for the complex mixture of sesquiterpenes emitted from *Arabidopsis* flowers

Dorothea Tholl, Feng Chen, Jana Petri, Jonathan Gershenzon, Eran Pichersky

***shk1-D*, a dwarf *Arabidopsis* mutant caused by activation of the CYP72C1 gene, has altered brassinosteroid levels**

Naoki Takahashi, Miki Nakazawa, Kyomi Shibata, Takao Yokota, Akie Ishikawa, Kumiko Suzuki, Mika Kawashima, Takanari Ichikawa, Hiroaki Shimada, Minami Matsui

BAS1 and SOB7 act redundantly to modulate *Arabidopsis* photomorphogenesis via unique brassinosteroid inactivation mechanisms

Edward M. Turk, Shozo Fujioka, Hideharu Seto, Yukihisa Shimada, Suguru Takatsuto, Shigeo Yoshida, Huachun Wang, Quetzal I. Torres, Jason M. Ward, Girish Murthy, Jingyu Zhang, John C. Walker, Michael M. Neff

Quantification of allele-specific expression of a gene encoding strawberry polygalacturonase-inhibiting protein (PGIP) using Pyrosequencing™

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A two-component high-affinity nitrate uptake system in barley

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Abscisic acid and 14-3-3 proteins control K⁺ channel activity in barley embryonic root

Paul WJ Wijngaard, Mark P Sinnige, Ilja Roobeek, Annet Reumer, Peter J Schoonheim, Jos NM Mol, Mei Wang, Albertus H De Boer

Tandem inverted repeat system for selection of effective transgenic RNAi strains in *Chlamydomonas*

Jennifer Rohr, Nandita Sarkar, Susan Balenger, Byeong-ryool Jeong and Heriberto Cerutti

Phosphoinositide-specific phospholipase C is involved in cytokinin and gravity responses in the moss *Physcomitrella patens*

Alexander Repp, Koji Mikami, Franz Mittmann and Elmar Hartmann

Detection of protein-protein interactions in plants using bimolecular fluorescence complementation

Keren Bracha-Drori, Keren Shichrur, Aviva Katz, Moran Oliva, Ruthie Angelovici, Shaul Yalovsky and Nir Ohad

Visualization of protein interactions in living plant cells using bimolecular fluorescence complementation

Michael Walter, Christina Chaban, Katia Schütze, Oliver Baticic, Katrin Weckermann, Christian Näke, Dragica Blazevic, Christopher Grefen, Karin Schumacher, Claudia Oecking, Klaus Harter, and Jörg Kudla

Application of a high-throughput HPLC-MS/MS assay to *Arabidopsis* mutant screening; evidence that threonine aldolase plays a role in seed nutritional quality

Georg Jander, Susan R Norris, Vijay Joshi, Michele Fraga, Arthur Rugg, Shaoxia Yu, Lily Li and Robert L Last

Herbivore-induced plant vaccination. Part I. The orchestration of plant defenses in nature and their fitness consequences in the wild tobacco *Nicotiana attenuata*

André Kessler and Ian T Baldwin

MAPMAN: a user-driven tool to display genomics data sets onto diagrams of metabolic pathways and other biological processes

Oliver Thimm, Oliver Bläsing, Yves Gibon, Axel Nagel, Svenja Meyer, Peter Krüger, Joachim Selbig, Lukas A Müller, Seung Y Rhee and Mark Stitt

Selective and powerful stress gene expression in *Arabidopsis* in response to malondialdehyde

Hans Weber, Aurore Chételat, Philippe Reymond and Edward E Farmer

A wheat gene encoding an aluminum-activated malate transporter

Takayuki Sasaki, Yoko Yamamoto, Bunichi Ezaki, Maki Katsuhara, Sung Ju Ahn, Peter R Ryan, Emmanuel Delhaize and Hideaki Matsumoto

Identification of *Pseudomonas syringae* type III effectors that can suppress programmed cell death in plants and yeast

Yashitola Jamir, Ming Guo, Hye-Sook Oh, Tanja Petnicki-Ocwieja, Shaorong Chen, Xiaoyang Tang, Martin B Dickman, Alan Collmer and James R Alfano

A cytosolic glucosyltransferase is required for conversion of starch to sucrose in *Arabidopsis* leaves at night

Tansy Chia, David Thorneycroft, Andrew Chapple, Gaëlle Messerli, Jychian Chen, Samuel C Zeeman, Steven M Smith and Alison M Smith

Definition and interactions of a positive regulatory element of the *Arabidopsis* INNER NO OUTER promoter

Robert J Meister, Luis A Williams, Mona M Monfared, Thomas L Gallagher, Edward A Kraft, Christian G Nelson and Charles S Gasser

Genome analysis at different ploidy levels allows cloning of the powdery mildew resistance gene *Pm3b* from hexaploid wheat

Nabila Yahiaoui, Payorm Srichumpa, Robert Dudler and Beat Keller

GIP, a *Petunia hybrida* GA-induced cysteine-rich protein: a possible role in shoot elongation and transition to flowering

Gili Ben-Nissan, Jung-Youn Lee, Amihud Borohov and David Weiss