ON THE COVER

The evolutionarily conserved interaction between particular SBP-box genes and miR156 is known to play a key role in the floral transition. The data presented by Xing et al. (pages 3935–3950) show another essential role for this interaction in sexual reproduction, specifically, in the process of microsporogenesis in anthers. The cover image shows the expression pattern of a GUS reporter gene driven by the MIR156H promoter region (cyan) in a top view of an Arabidopsis inflorescence apex.

IN BRIEF

Auxin Binding by SKP2A Activates Proteolysis of Downstream Cell Cycle Regulators and Promotes Cell Division
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The Nuclear Pore Complex in Arabidopsis
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miR156-Targeted and Nontargeted SBP-Box Transcription Factors Act in Concert to Secure Male Fertility in Arabidopsis
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A Recycling-Defective Vacuolar Sorting Receptor Reveals an Intermediate Compartment Situated between Prevacuoles and Vacuoles in Tobacco

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EXPO, an Exocyst-Positive Organelle Distinct from Multivesicular Endosomes and Autophagosomes, Mediates Cytosol to Cell Wall Exocytosis in Arabidopsis and Tobacco Cells

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Phosphoinositides Regulate Clathrin-Dependent Endocytosis at the Tip of Pollen Tubes in Arabidopsis and Tobacco

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LAP6/POLYKETIDE SYNTHASE A and LAP5/POLYKETIDE SYNTHASE B Encode Hydroxyalkyl α-Pyrone Synthases Required for Pollen Development and sporopollenin Biosynthesis in Arabidopsis thaliana

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Serine Protease Inhibitors Specifically Defend Solanum nigrum against Generalist Herbivores but Do Not Influence Plant Growth and Development

Markus Hartl, Ashok P. Giri, Harleen Kaur, and Ian T. Baldwin

RanGAP2 Mediates Nucleocytoplasmic Partitioning of the NB-LRR Immune Receptor Rx in the Solanaceae, Thereby Dictating Rx Function

Wladimir I.L. Tameling, Claudia Nooljen, Nora Ludwig, Marta Boter, Erik Slootweg, Aska Goverse, Ken Shirasu, and Matthieu H.A.J. Joosten

Nucleocytoplasmic Distribution Is Required for Activation of Resistance by the Potato NB-LRR Receptor Rx1 and Is Balanced by Its Functional Domains

Erik Slootweg, Jan Roosien, Laurentien N. Spiridon, Andrei-Jose Petrescu, Wladimir Tameling, Matthieu Joosten, Rikus Pomp, Casper van Schaik, Robert Dees, Jan Willem Borst, Geert Smart, Arjen Schots, Jaap Bakker, and Aska Goverse

CORRECTION


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