ON THE COVER

As key components in the eukaryotic gene regulatory network, microRNAs (miRNAs) themselves are regulated at the levels of both metabolism and functioning. Wang et al. (pages 3565–3576) utilized an Arabidopsis thaliana transgenic line expressing an artificial miRNA (amiR-trichome) that causes trichome clustering to identify factors that are involved in modulating miRNA activity. They showed that mutations in an Importin β protein enhanced miRNA activity and caused highly clustered trichomes as shown in the cover image.

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A Symbiotic Sugar Transporter in the Arbuscular Mycorrhizal Fungus Glomus sp
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CBS Domain Proteins Regulate Redox Homeostasis
Gregory Bertoni

Actin Depolymerizing Factor4 Severs Actin Filaments in Vivo
Kathleen L. Farquharson

RESEARCH ARTICLES

An Importin β Protein Negatively Regulates MicroRNA Activity in Arabidopsis
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 Auxin-Dependent Cell Cycle Reactivation through Transcriptional Regulation of Arabidopsis E2Fa by Lateral Organ Boundary Proteins

Tissue-Autonomous Promotion of Palisade Cell Development by Phototropin 2 in Arabidopsis

Arabidopsis Actin Depolymerizing Factor4 Modulates the Stochastic Dynamic Behavior of Actin Filaments in the Cortical Array of Epidermal Cells

Actin in Mung Bean Mitochondria and Implications for Its Function

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CORRECTION

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