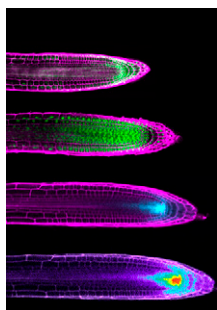


T H E
PLANT
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Volume 32 Number 12 December 2020

The electronic form of this issue, available at www.plantcell.org, is the journal of record.

ON THE COVER



The role of PLTs during root meristem development requires its concentration gradient, which is not only contributed by post-translational regulation such as growth dilution and intercellular movement, but likely also by fine-tuned transcriptional regulation for which not much has been known. Xiong et al. (pages 3812–3824) report that Arabidopsis JANUS positively regulates *PLT1* expression in the root meristem by recruiting RNA polymerase II (Pol II) on *PLT1* and by interacting with *PLT1*. JANUS-dependent recruitment of Pol II is inhibited through competitive binding of JANUS by GRF-INTERACTING FACTOR1/ANGUSTIFOLIA3 (GIF1/AN3), a transcriptional co-factor negatively regulating *PLT1* expression. Finally, GIF1 and JANUS, the antagonistic regulators of *PLT1*, both depend on Arabidopsis IMPORTIN β 4 (*IMB4*) for their nuclear accumulation. From top to bottom: the expression pattern of *IMB4*, *JANUS*, *PLT1*, and *PLT1* in pseudocolors reflecting signal intensity.

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15501 Monona Drive
Rockville, Maryland 20855-2768
Telephone: 301/296-0908

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Rodrigues, A., et al. (2013). ABI1 and PP2CA phosphatases are negative regulators of Snf1-Related Protein Kinase1 signaling in *Arabidopsis*. *Plant Cell* **25**: 3871–3884.

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The Plant Cell (eISSN 1532-298X) is published monthly (one volume per year) by the American Society of Plant Biologists, 15501 Monona Drive, Rockville, MD 20855-2768, and is produced by Dartmouth Journal Services, Waterbury, VT. The institutional subscription price is based on type of institution; contact institution@aspb.org. Members of the American Society of Plant Biologists may subscribe to *The Plant Cell* for \$240. Nonmember individuals may subscribe for \$500. Students may subscribe for \$165. For matters regarding subscriptions, contact Suzanne Cholwek, ASPB, 15501 Monona Drive, Rockville, MD 20855-2768; telephone 301/296-0926; fax 301/251-6740; e-mail scholwek@aspb.org. Send all inquiries regarding display advertising to FASEB AdNet, 9650 Rockville Pike, Bethesda, MD 20814-3998; telephone 301/634-7791; fax 301/634-7153; e-mail adnet@faseb.org. The online version of *The Plant Cell* is available at www.plantcell.org.

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