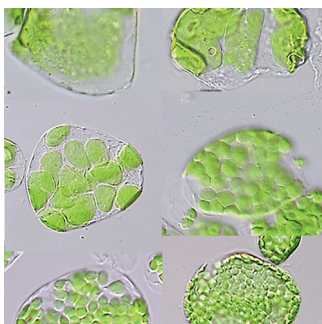


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**PLANT**  
C E L L

Volume 27 Number 3 March 2015

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**ON THE COVER**



Chloroplasts multiply by division, which is accomplished by constriction of envelope membranes at the division site. Okazaki et al. (663–674) show that PLASTID DIVISION1 (PDV1) and PDV2 proteins interact specifically with phosphatidylinositol 4-phosphate (PI4P) and PI4P negatively regulates chloroplast division. The cover image shows chloroplasts in single mesophyll cells of *Arabidopsis pdv1 pdv2* (upper left), *pdv1* (upper right), *pdv2* treated with PI4K inhibitor (middle left), the wild type (middle right), the wild type treated with PI4K inhibitor (lower left), and a *PDV2*- and *DRP5B*-overexpressing plant treated with PI4K inhibitor (lower right).

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*The Plant Cell* (ISSN 1040-4651, online ISSN 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 price for the print and online versions is based on type of institution; contact [institution@aspb.org](mailto:institution@aspb.org). Single copies may be purchased for \$40 each, plus \$10 shipping (U.S.) or \$12 (outside U.S.). 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](mailto:scholwek@aspb.org). Notify ASPB in writing within 3 months (domestic) or 6 months (foreign) of issue date, and defective copies or copies lost in the mail will be replaced. 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](mailto:adnet@faseb.org). Periodicals postage paid at Rockville, MD 20850, and at additional mailing offices.

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