

T H E  
**PLANT**  
C E L L

Volume 27 Number 6 June 2015

The electronic form of this issue, available at [www.plantcell.org](http://www.plantcell.org), is the journal of record.

**ON THE COVER**



Stripe rust is a devastating fungal disease of wheat caused by *Puccinia striiformis* f. sp. *tritici* (*Pst*). WKS1 is a race nonspecific resistance gene that confers partial resistance to *Pst* characterized by restricted fungal growth and sporulation. Gou et al. (pages 1755–1770) show that the resistance protein WKS1 is targeted to the chloroplast where it phosphorylates thylakoid-associated ascorbate peroxidase (tAPX), thus reducing its ability to detoxify peroxides. Two splice variants of the protein were identified, a full-length WKS1.1 and a truncated form WKS1.2, and only the full-length version confers *Pst* resistance. The authors present data supporting the hypothesis that reduced tAPX activity in the presence of functional WKS1.1 contributes to the accumulation of H<sub>2</sub>O<sub>2</sub> and the initiation of the progressive cell death response that is characteristic of partial resistance to *Pst*. The cover image shows a susceptible wheat line (lacking functional WKS1) infected with *Pst*, exhibiting the characteristic signs of stripe rust.

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## RETRACTION

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## CORRECTION

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 Articles can be viewed online without a subscription.



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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](mailto: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](mailto: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](mailto:adnet@faseb.org). The online version of *The Plant Cell* is available at [www.plantcell.org](http://www.plantcell.org).

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