

T H E
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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 H₂O₂ 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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CORRECTION

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Schaefer, E., Duvernois, E., Grandjean, O., Vantard, M., Bouchez, D., and Pastuglia, M. (2012). The *Arabidopsis* TRM1–TON1 interaction reveals a recruitment network common to plant cortical microtubule arrays and eukaryotic centrosomes. *Plant Cell* 24: 178–191.

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