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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 $H_2O_2$ 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.

## IN BRIEF



## RESEARCH ARTICLES

## RETRACTION



## CORRECTION



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