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>> Science Podcast
Listen to a special show focused on smarter pesticides, including stories on preventing pesticide suicides, RNA interference for bugs, and manipulating the plant immune system.

>> Find More Online
Check out Science Express, our podcast, videos, daily news, our research journals, and Science Careers at www.sciencemag.org.

COVER
Stem rust fungus Ug99 is deadly to unprotected wheat strains (two stems on the right), but not to those protected by innate resistance genes (three stems on the left). In this special issue, we explore past and future strategies for responding to diseases and infestations caused by pests. The solutions demand our best knowledge of chemistry, immune responses, and ecosystem stability. See page 728.

Photo: Evans Lagudah and Zak Pretorius

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774 Incision into the Eastern Andean Plateau During Pliocene Cooling
R. O. Lease and T. A. Ehlers
Climate had stronger control of canyon incision than tectonics in the eastern Andes 4 million years ago.

777 Basal Drainage System Response to Increasing Surface Melt on the Greenland Ice Sheet
T. Meierbachtol et al.
Basal drainage structures at the edges of the Greenland ice sheet differ from those found farther in the interior.

779 Earliest Evolution of Multituberculate Mammals Revealed by a New Jurassic Fossil
C. K. Yuan et al.
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783 Identification of Wheat Gene Sr35 That Confers Resistance to Ug99 Stem Rust Race Group
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786 The Gene Sr33, an Ortholog of Barley Mla Genes, Encodes Resistance to Wheat Stem Rust Race Ug99
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V. D. Miliken et al.
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796 Recurrent Insect Outbreaks Caused by Temperature-Driven Changes in System Stability
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800 A Gut Lipid Messenger Links Excess Dietary Fat to Dopamine Deficiency
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