A cotton bollworm larva (Helicoverpa armigera) feeds on a cotton boll. Transgenic Bt cotton was designed to resist this and other caterpillar pests. See page 1676.

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K.-K. Ni et al.
Raman laser irradiation can cool a cloud of KRb molecules to ultralow translational, vibrational, and rotational temperatures, a step toward forming molecular condensates. 10.1126/science.1163861

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K. L. Styer et al.
In the nematode Caenorhabditis elegans, sensory neurons surprisingly can inhibit innate immune responses, in part through the mitogen-activated protein kinase signaling pathway. 10.1126/science.1163673

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GEOLOGY
Comment on “Age and Evolution of the Grand Canyon Revealed by U-Pb Dating of Water Table–Type Speleothems”
J. Pederson et al.
full text at www.sciencemag.org/cgi/content/full/321/5896/1634b

Response to Comment on “Age and Evolution of the Grand Canyon Revealed by U-Pb Dating of Water Table–Type Speleothems”
V. Polyak, C. Hill, Y. Asmerom
full text at www.sciencemag.org/cgi/content/full/321/5896/1634d

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D. G. Froese et al.
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White Fat Progenitor Cells Reside in the Adipose Vasculature
W. Tang et al.
Adipocytes (fat cells) originate from precursor cells that reside within the walls of the blood vessels that feed fat tissue. 10.1126/science.1156232

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E. L. Kunkes et al.
A set of two reactors, one that breaks down biomass sugars and a second that directs chain formation, can synthesize various hydrocarbon fuels. 10.1126/science.1159210

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F. Schmitt et al.
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P. Nolte et al.
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D.-S. Yang, C. Lao, A. H. Zewail
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C. Costello, S. D. Gaines, J. Lynham
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Apoptotic Force and Tissue Dynamics During Drosophila Embryogenesis 1683
Y. Toyama et al.
During development, programmed cellular death within sheets of cells can generate forces that accelerate tissue fusion; a similar process may apply to wound healing. >> Perspective p. 1641

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Some pathogens synthesize the essential vitamin menaquinone by an unusual pathway, presenting a potential target for new antibiotics. >> Perspective p. 1644

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Mother seabirds that are infected by parasitic nematodes are less able to gather food and feed their fast-growing sons, shifting the sex ratio and affecting population viability.

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T. Nakamura et al.
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D. R. Oxley et al.
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Suppression of Cotton Bollworm in Multiple Crops in China in Areas with Bt Toxin–Containing Cotton K.-M. Wu, Y.-H. Lu, H.-Q. Feng, Y.-Y. Jiang, J.-Z. Zhao
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