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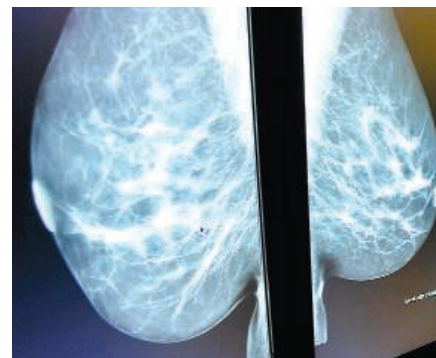
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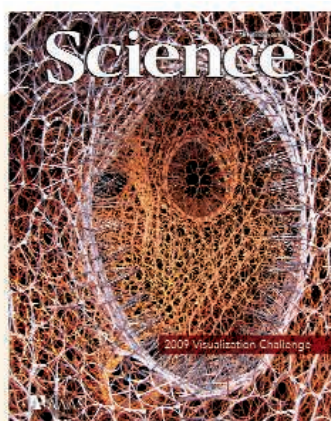


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COVER

"Branching Morphogenesis," an installation made from more than 75,000 interconnected cable zip ties, illustrates the predicted forces generated by human lung endothelial cells as they form networks within an extracellular matrix over time. Winners of the 2009 *Science*/NSF International Science & Engineering Visualization Challenge are featured in a special section starting on page 945.

Image: Jenny E. Sabin; installation: Peter Lloyd Jones, Jenny E. Sabin, Andrew Lucia, Annette Fierro/Sabin+Jones LabStudio, University of Pennsylvania

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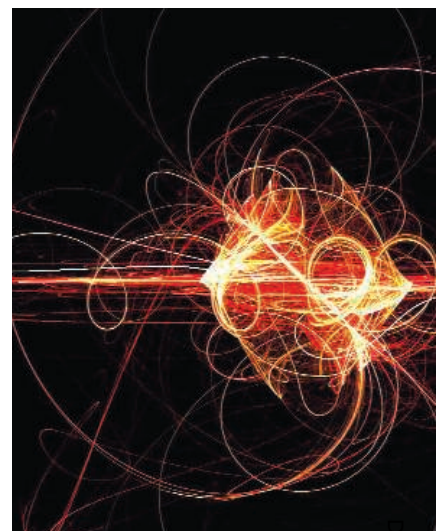
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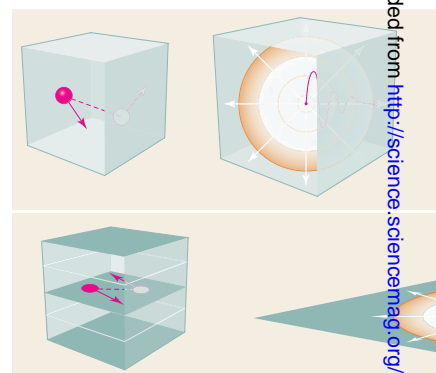
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J. M. Hales et al.

Nonlinear optical materials are designed and characterized for potential applications in all-optical switching.
10.1126/science.1185117

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Highlights From Our Daily News Coverage

Is That Elephant Running? Don't Bet on It

New study argues that, regardless of their speed, elephants don't actually run.

What Doesn't Kill Microbes, Makes Them Stronger

Low levels of antibiotics trigger mutations that cause resistance.

Ancient Human Sequenced for First Time

Strands of hair paint detailed picture of 4000-year-old Greenlander.

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CONNECTIONS MAP: Arabidopsis Jasmonate Signaling Pathway

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SCIENCECAREERS

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Free Career Resources for Scientists

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RESEARCH ARTICLE: S-Nitrosylation from GSNOR

Deficiency Impairs DNA Repair and Promotes Hepatocarcinogenesis

W. Wei et al.

An enzyme that removes harmful marks from cellular proteins guards against liver cancer.



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Insight into an oral pathogen.

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Download the 19 February *Science* Podcast to hear about predicting human mobility patterns, a possible mechanism of prebiotic sugar formation, the winners of the 2009 *Science*/NSF Visualization Challenge, and more.

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Science Policy News and Analysis

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