

## COVER

A three-dimensional model of the topological structure of zeolite SSZ-65. The Gordon Research Conference on Nanoporous Materials will be held 15 to 20 June 2008 at Colby College, Waterville, ME. The schedules for the 2008 Gordon Research Conferences begin on page 637.

**Model creation and rendering:**  
*Kelly Harvey and Scott Harvey*

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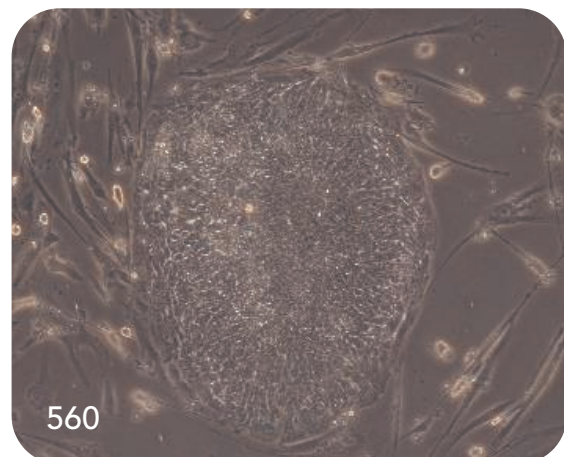
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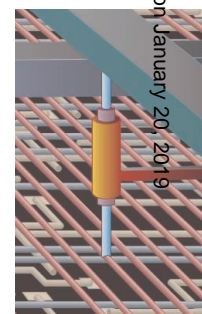
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*P. G. Falkowski and A. H. Knoll, Eds.,*  
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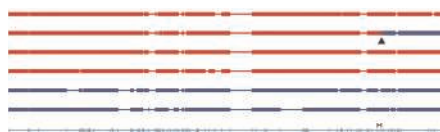
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## SCIENCE EXPRESS

[www.scienceexpress.org](http://www.scienceexpress.org)

### CLIMATE CHANGE

**Human-Induced Changes in the Hydrology of the Western United States**  
*T. P. Barnett et al.*

Combining a regional hydrologic and global climate model implies that human-caused CO<sub>2</sub> emissions have already greatly changed river flows and snow pack in the western United States.

10.1126/science.1152538

### ASTROPHYSICS

**Asphericity in Supernova Explosions from Late-Time Spectroscopy**  
*K. Maeda et al.*

Spectroscopic signatures show that supernova explosions of stars that have lost their hydrogen envelopes are strongly aspherical and may be jetlike.

10.1126/science.1149437

### GENETICS

**High-Resolution Mapping of Crossovers Reveals Extensive Variation in Fine-Scale Recombination Patterns Among Humans**

*G. Coop, X. Wen, C. Ober, J. K. Pritchard, M. Przeworski*

High-density genotyping of individuals from 82 families shows unexpected variation in the number of meiotic crossovers and in the relative activity of recombination hotspots.

10.1126/science.1151851

### GENETICS

**Sequence Variants in the *RNF212* Gene Associate with Genomewide Recombination Rate**

*A. Kong et al.*

A variant of a human gene associated with high rates of recombination in males and low rates in females is an ortholog of a nematode gene essential for recombination.

10.1126/science.1152422

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Comment on "Saturation of the Southern Ocean CO<sub>2</sub> Sink Due to Recent Climate Change"

*K. Zickfeld, J. C. Fyfe, M. Eby, A. J. Weaver*

[full text at www.sciencemag.org/cgi/content/full/319/5863/570b](http://www.sciencemag.org/cgi/content/full/319/5863/570b)

Response to Comments on "Saturation of the Southern Ocean CO<sub>2</sub> Sink Due to Recent Climate Change"

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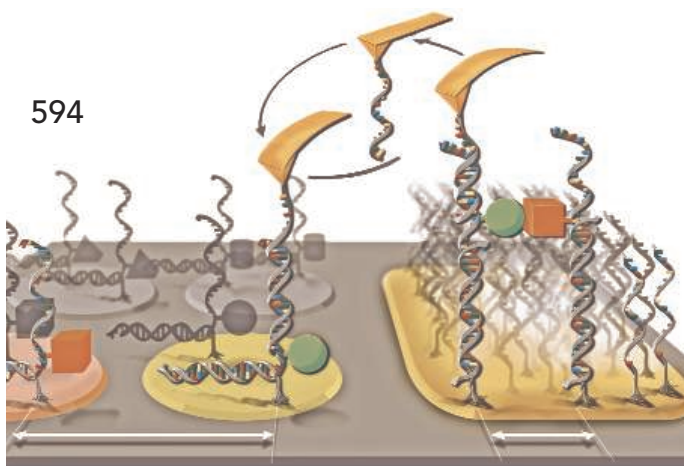
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**Widespread Genetic Incompatibility in *C. elegans* Maintained by Balancing Selection** 589

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An atomic force microscope tip derivatized with DNA can pick up and assemble large molecules bearing DNA handles into specific patterns on a surface in aqueous solution.

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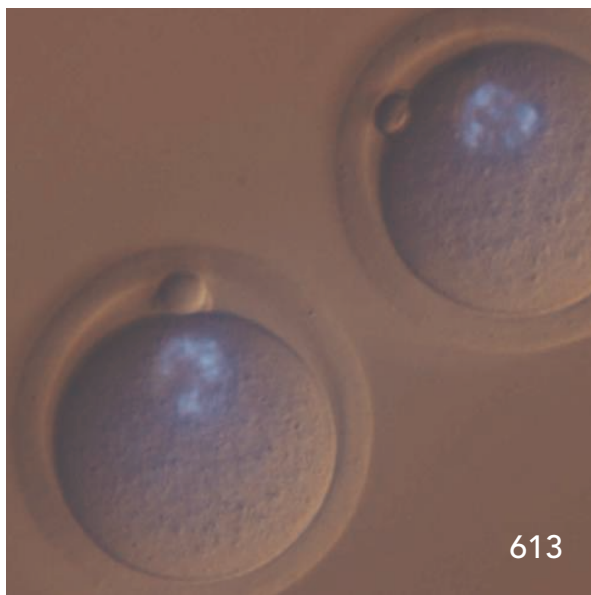
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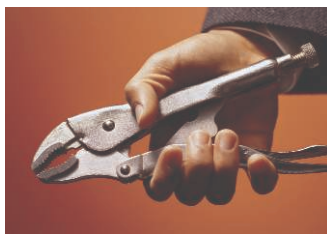


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Second hand?

## SCIENCE NOW

[www.sciencenow.org](http://www.sciencenow.org) DAILY NEWS COVERAGE

### Tool Use Is Just a Trick of the Mind

Primate brains learn how to use pliers and other implements by treating them as part of the body.

### Solving the Carbon-14 Mystery

Physicists figure out why the anthropological dating tool decays so slowly.

### The Ocean's Biological Deserts Are Expanding

Global warming may be driving an enlargement of the sea's least productive regions.



Making connections through collaboration.

## SCIENCE CAREERS

[www.sciencereers.org](http://www.sciencereers.org) CAREER RESOURCES FOR SCIENTISTS

### Maximizing Productivity and Recognition, Part 2: Collaboration and Networking

*S. Pfirman, P. Balsam, R. E. Bell, J. D. Laird, P. Culligan*  
Collaboration and networking help make connections that can advance both science and your career.

### What's Ahead for Early-Career Scientists?

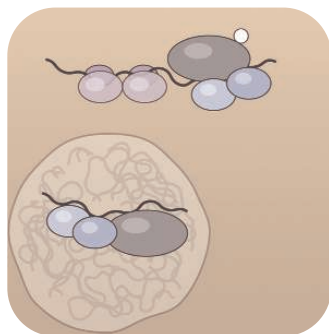
*B. L. Benderly*  
A comprehensive examination finds opportunities in the U.S. brighter in industry than in academia.

### Learning to Manage

*H. Franzen*  
A workshop series in Germany teaches management skills to young scientists before they need them.

### February 2008 Funding News

*J. Fernández*  
Learn about the latest in research funding opportunities, scholarships, fellowships, and internships.



Suppression of translation by FMRP.

## SCIENCE SIGNALING

[www.stke.org](http://www.stke.org) THE SIGNAL TRANSDUCTION KNOWLEDGE ENVIRONMENT

### PERSPECTIVE: Metabotropic Glutamate Receptors and Fragile X Mental Retardation Protein—Partners in Translational Regulation at the Synapse

*J. A. Ronesi and K. M. Huber*

On the road to protein synthesis-dependent plasticity, FMRP is the brake and mGluRs are the gas.

### EVENTS

Plan to attend a meeting related to cell signaling.

## SCIENCE PODCAST



Download the 1 February *Science* Podcast to hear about how languages evolve in bursts, human-induced changes in U.S. hydrology, the latest on stem cells, and more.

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# Science

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