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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Combining a regional hydrologic and global climate model implies that human-caused CO$_2$ emissions have already greatly changed river flows and snow pack in the western United States.
10.1126/science.1152538

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

Comment on “Saturation of the Southern Ocean CO$_2$ Sink Due to Recent Climate Change”
R. M. Law, R. J. Matear, R. J. Francey
full text at www.sciencemag.org/cgi/content/full/319/5863/570a

Comment on “Saturation of the Southern Ocean CO$_2$ 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

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C. Le Quéré et al.
full text at www.sciencemag.org/cgi/content/full/319/5863/570c

Languages Evolve in Punctuational Bursts
Q. D. Atkinson et al.
A study of Bantu, Indo-European, Austronesian, and Polynesian languages shows that up to one-third of their words arose in rapid evolutionary bursts from the predecessor tongue.

Widespread Genetic Incompatibility in C. elegans Maintained by Balancing Selection
H. S. Seidel, M. V. Rockman, L. Kruglyak
Strong natural selection is maintaining multiple alleles of a gene in wild populations of the nematode C. elegans, despite their negative effect on fitness.

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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Neutron-scattering measurements suggest that ordering of fluctuating electron spins explains the liquid crystal phases recently seen in some correlated electron systems.
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After fertilization or somatic cell nuclear transfer, the oocyte’s nucleolus but not the sperm’s is essential for subsequent development.

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Systematic inhibition of gene expression with RNA interference screening reveals genes essential for growth and survival of tumor cells, potentially leading to new cancer drugs.
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 319 (5863), 545-661.