### NEWS OF THE WEEK

**FBI Discusses Microbial Forensics—but Key Questions Remain Unanswered**

Six Anthrax Science Questions the FBI Has Yet to Answer

**Pumping Up the Tibetan Plateau From the Far Pacific Ocean**

>> Review p. 1054

‘Simple’ Animal’s Genome Proves Unexpectedly Complex

**SCIENCESCOPE**

New Regulation Would Lessen Influence of Fish and Wildlife Experts

Departments Scramble to Find Math Education Faculty

**NEWS FOCUS**

Turbulent Times for Climate Model

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Shielding a Buddhist Shrine From the Howling Desert Sands

Can High-Speed Tests Sort Out Which Nanomaterials Are Safe?

### LETTERS

An Editor’s Checklist R. W. Guillery

High-Profile Journals Not Worth the Trouble J. L. Rosenbaum

Taking Responsibility for Scientific Discourse S. D. Friedman

The Carrageenan Diet: Not Recommended J. K. Tobacman et al.

### CORRECTIONS AND CLARIFICATIONS

### BOOKS ET AL.

Just One Child Science and Policy in Deng’s China S. Greenhalgh, reviewed by E. A. Mueggler

Fatal Misconception The Struggle to Control World Population M. Connelly, reviewed by J. C. Caldwell

### POLICY FORUM

Toward a Global Biodiversity Observing System R. J. Scholes et al.

### PERSPECTIVES

The Unseen Mind T. D. Wilson and Y. Bar-Anan

Stars in the Making P. J. Armitage

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Soluble Allotropes of Main-Group Elements C. A. Dyker and G. Bertrand


Using Tobacco to Treat Cancer C. J. Arntzen

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Quantum Communication with Zero-Capacity Channels
G. Smith and J. Yard
Two quantum communication channels, each of which is so noisy that it has zero-capacity to independently transmit information, can do so when used together.
10.1126/science.1162242

CELL BIOLOGY
High-Quality Binary Protein Interaction Map of the Yeast Interactome Network
H. Yu et al.
Comparison of existing methods for mapping protein-protein interactions in yeast cells shows that the high-throughput approaches are complementary to one another.
10.1126/science.1158684

TECHNICAL COMMENT ABSTRACTS
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Comment on “Protein Sequences from Mastodon and Tyrannosaurus rex Revealed by Mass Spectrometry”
P. A. Pevzner, S. Kim, J. Ng
full text at www.sciencemag.org/cgi/content/full/321/5892/1040b
Response to Comment on “Protein Sequences from Mastodon and Tyrannosaurus rex Revealed by Mass Spectrometry”
J. M. Asara, M. H. Schweitzer, L. C. Cantley, J. S. Cottrell
full text at www.sciencemag.org/cgi/content/full/321/5892/1040c

BREVIA
ATMOSPHERIC SCIENCE
N₂O₅ Oxidizes Chloride to Cl₂ in Acidic Atmospheric Aerosol
J. M. Roberts et al.
Laboratory studies affirm that the oxidation of chloride ions in aerosols by N₂O₅ is a significant source of chlorine in the troposphere, a major reactant that helps form ozone.

REPORTS
ASTRONOMY
Star Formation Around Supermassive Black Holes
I. A. Bonnell and W. K. M. Rice
Simulations show that the disruption of a molecular cloud by a black hole can lead to the formation of nearby stars with eccentric orbits, explaining observations in our Galaxy.
>> Perspective p. 1047

PHYSICS
Quantum Gas of Deeply Bound Ground State Molecules
J. G. Danzl et al.
A coherent Raman pumping scheme cools cesium molecules to a state with minimal rotational energy, needed for producing cold molecular Bose-Einstein condensates.

MATERIALS SCIENCE
Observation of Atomic Diffusion at Twin-Modified Grain Boundaries in Copper
The presence of twinned grains at grain boundaries reduces current-induced diffusion of atoms in small copper wires, which can produce voids or even breaks.
R. Ferrari

Epigenetic Reprogramming by Adenovirus e1a

G. A. Horwitz

Histone Modification

Adenovirus Small e1a Alters Global Patterns of Epigenetic Reprogramming

Upon infection, an adenovirus protein causes global epigenetic changes in the host that repress antiviral responses and conferring flexibility on the system.

VIROLOGY

Adenovirus Small e1a Alters Global Patterns of Histone Modification

G. A. Horwitz et al.

Epigenetic Reprogramming by Adenovirus e1a

R. Ferrari et al.

Upon infection, an adenovirus protein causes global epigenetic changes in the host that repress antiviral responses and differentiation and activate cell-cycle genes.

MOLECULAR BIOLOGY

Heterochromatin Integrity Affects Chromosome Reorganization After Centromere Dysfunction

K. Ishii et al.

When the centromere is removed from a yeast chromosome, a new one forms near the end of the chromosome, over a cluster of poorly expressed genes.

NEUROSCIENCE

Grueneberg Ganglion Cells Mediate Alarm Pheromone Detection in Mice

J. Brechbühl, M. Klaey, M.-C. Broillet

A mysterious ganglion at the tip of the nose is an olfactory subsystem that senses alarm pheromones in mice.

CELL BIOLOGY

Control of the Reversibility of Cellular Quiescence by the Transcriptional Repressor HES1

L. Sang, H. A. Coller, J. M. Roberts

For quiescent cells to periodically divide and then rest, a member of the Notch signaling pathway HES1 must be present; this protein is also activated in some tumors.

PSYCHOLOGY

Automatic Mental Associations Predict Future Choices of Undecided Decision-Makers

S. Galdi, L. Arcuri, B. Gawronski

Unexpectedly, consciously expressed voting choices predict later unconscious preferences, showing that unconscious and conscious cognition is a two-way street.

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PROTOCOL: Application of Fluorescence Resonance Energy Transfer and Magnetic Twisting Cytometry to Quantify Mechano-Chemical Signaling Activities in a Living Cell
S. Na and N. Wang
Get detailed instructions for delivering biologically relevant mechanical stress to individual cells and observing the intracellular signaling activities that ensue.

PRESENTATION: Defining Drug Targets in Yeast Haploinsufficiency Screens—Application to Human Translational Pharmacology
M. Roberge
Identifying targets of drugs in yeast using genome-wide drug-induced haploinsufficiency is a viable approach to predicting drug targets in humans.