A depiction of the interaction of an excess electron with the hydrogen-bonded complex NH$_3$...HCl, which induces formation of the ionic pair NH$_4^+$Cl$^-$ solvated by the excess electron. The image shows the structures of three possible systems and highlights the areas that correspond to 10%, 30%, and 50% of the excess electron. See page 936.

I Illustration: Maciej Haranczyk

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Two clocks based on optical transitions in single trapped ions set 4 kilometers apart are able to keep time within a fractional error of $1 \times 10^{-14}$, better than the standard atomic clock.

A drug for controlling cholesterol may be useful as an antibiotic for multi–drug-resistant *Staphylococcus* because of unexpected structural similarities among critical proteins.

A system of two giant planets orbiting a star has been discovered through their gravitational deflection of light from more distant stars.

A drug that inhibits a neural signaling pathway linked to behavioral stress may be a useful therapy in preventing relapse in alcoholics.

Induced pluripotent stem cells are generated by direct reprogramming of adult liver and stomach cells without retroviral integration into specific sites in the genome.

An RNAi screen identified 237 new and 38 known human proteins required for HIV infection, including ones used in Golgi transport and in viral integration and transcription.

Maps of the second derivative of the scanning tunneling microscope current with respect to voltage reveal atomic-scale variations in the surface vibrational modes of metals.
A molecular rotary motor continues to rotate in the correct direction even when its shaft is deleted, leaving only the rotor head sitting on top of the shaft housing.

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MEDICINE

Metal Chelation and Inhibition of Bacterial Growth in Tissue Abscesses

B. D. Corbin et al.

An immune cell–derived protein binds metal ions in infected abscesses, depriving the bacteria of the essential nutrients magnesium and zinc and reducing their growth.

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PSYCHOLOGY

The Critical Importance of Retrieval for Learning

J. D. Karpicke and H. L. Roediger III

Students recalled words they had learned the previous week more effectively if they were tested repeatedly in the interim than if they spent the time studying.
The Tiredness of the Long-Distance Runner
Leaky calcium channels may cause muscle fatigue, and a new drug could boost performance.

I Hear You, My Monkey Brother
A region of the monkey brain responds preferentially to the voices of other monkeys.

Taking the Heat Off Coral
A natural ocean “thermostat” is counteracting the effects of climate warming.

STopping cell death.

SCIENCE SIGNALING
www.stke.org  THE SIGNAL TRANSDUCTION KNOWLEDGE ENVIRONMENT

PERSPECTIVE: Cell Stress Gives a Red Light to the Mitochondrial Cell Death Pathway
M. E. Guicciardi and G. J. Gores
A prefoldin protein and insulin-like growth factor–binding protein act at the mitochondrion to inhibit apoptosis.

TEACHING RESOURCE: Quantitative Models of Mammalian Cell Signaling Pathways
R. Iyengar
Prepare a graduate-level class covering mathematical modeling of mammalian signaling pathways.

Overcoming that phony feeling.

SCIENCE CAREERS
www.sciencecareers.org  CAREER RESOURCES FOR SCIENTISTS

In Person: Finding Opportunities in a Dysfunctional Job Market
B. Allen
To find hidden value in the job market, you have to cast a wide net.

No, You’re Not an Impostor
L. Laursen
Getting over the feeling that you’re a phony takes an accurate self-appraisal.

Tooling Up: Put Some Muscle Into Your Marketing Materials
D. Jensen
Powerful writing can move your job application to the top of the pile.

From the Archives: How to Get a Job in Academia
A. Fazekas
What the hiring committee is looking for depends on the type of institution.

THE GONZO SCIENTIST:
Can Scientists Dance?
Our intrepid reporter organized the first-ever “Dance Your Ph.D.” contest to answer the question—and has video to show for it.

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Download the 15 February Science Podcast to hear about the discovery of a Jupiter/Saturn analog, anoxia in the California Current marine ecosystem, extensively drug-resistant tuberculosis, dancing scientists, and more.

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