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REVIEW

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How We See Ourselves and How We See Others
E. Pronin

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Ecosystem Feedbacks and Nitrogen Fixation in Boreal Forests
T. H. DeLuca et al.
As burned areas in boreal forests recover, cyanobacteria in moss carpets fix nitrogen as it is lost from dead leaves and litter, ensuring a constant nitrogen supply.

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Mars North Polar Deposits: Stratigraphy, Age, and Geodynamical Response
R. J. Phillips et al.
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Widespread Translational Inhibition in a Molybdate/Tungstate ABC Transporter
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A class of membrane transporters is subject to product inhibition: The imported substrate binds to a regulatory domain that sterically inhibits further adenosine triphosphate hydrolysis.

GENETICS
Paleo-Eskimo mtDNA Genome Reveals Matrilineal Discontinuity in Greenland
M. T. P. Gilbert et al.
Ancient human DNA sequences from Greenland suggest that the earliest inhabitants of the far north were from a lineage distinct from extant Native Americans and Eskimos. >> News story p. 1146

PHYSICS
Probing Cold Dense Nuclear Matter
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Electron-beam experiments reveal that some neutrons within $^{12}$C nuclei tend to form close, dynamical pairs with protons but that pairs of the same particle type are rare.

CLIMATE CHANGE
Elevation Changes in Antarctica Mainly Determined by Accumulation Variability
M. M. Helsen et al.
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BIOCHEMISTRY
Structural Basis of Trans-Inhibition in a Molybdate/Tungstate ABC Transporter
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Astronomy
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O. Krause et al.
A supernova seen 300 years ago is now seen again as infrared echoes scattered by interstellar dust, showing that it formed from the helium core of a red supergiant star.

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Applied Physics
Interfacial Polygonal Nanopattering of Stable Microbubbles
E. Dressaire, R. Bee, D. C. Bell, A. Lips, H. A. Stone
Hexagonally packed surfactant molecules at the gas/liquid interface of micrometer-sized gas bubbles retard dispersion enough to stabilize them for more than a year.

Climate Change
The Sensitivity of Polar Ozone Depletion to Proposed Geoengineering Schemes
S. T. Ames, R. Müller, R. Salawitch
Calculations imply that injection of sulfur into the atmosphere to counteract global warming would threaten the ozone layer, as occurred after the Mount Pinatubo eruption.

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Water Activity and the Challenge for Life on Early Mars
N. J. Tosca, A. H. Knoll, S. M. McLennan
Calculations imply that the high salinity required to form widespread sulfates found on Mars reduces the effective concentration of water below the limits for life on Earth.

Cell Biology
A Cytosolic Iron Chaperone That Delivers Iron to Ferritin
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A cytosolic iron-binding protein, PCBP1, carries the reactive but essential element iron to ferritin, its major storage depot in the cell.

Evolution
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The Neurochemistry of Forgiving and Forgetting

REVIEW: Pharmacological PKA Inhibition—All May Not Be What It Seems
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M. P. DeWhyse

As she prepares to walk away from the bench, Micella is at peace.

A Rare Opportunity to Take Flight
E. Pain

The European Space Agency has launched its first recruitment for astronauts since 1992.

Grad School Campus Visits
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Campus visits can help you make a better choice about graduate schools.

From the Archives: The Perfect Postdoc
J. Austin

If you’re looking for a postdoc position, first take a hard look at your prospects and plans.

Download the 30 May Science Podcast to hear about kin selection and the evolution of eusociality, origins of the Cassiopeia A supernova remnant, Fermilab budget cuts, and more.
Science 320 (5880), 1129-1230.