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 AAAS

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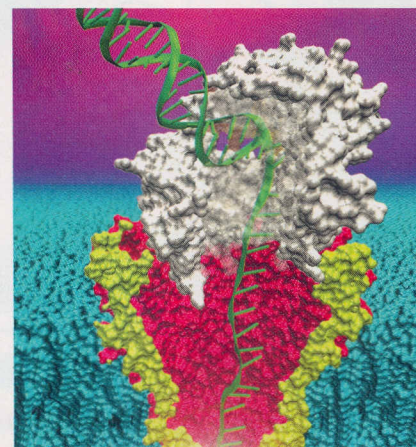
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E. E. Kenny et al.
Naturally blond hair in Solomon Islanders maps to a missense mutation in a gene associated with pigmentation.

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COVER

A jumble of icebergs forms in front of the heavily crevassed calving front of Jakobshavn Isbræ, one of the fastest outlet glaciers draining the Greenland Ice Sheet. The ~5-kilometer-wide ice front rises ~80 meters out of the water and extends more than 600 meters underwater. Recent research shows that the speeds of Greenland glaciers are increasing. See page 576.

Photo: Ian Joughin

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Tantalum is found to generate strong spin currents that can induce switching of ferromagnets efficiently and reliably.

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- 559 Spin-Orbital Short-Range Order on a Honeycomb-Based Lattice
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Magnetic measurements indicate that a material remains disordered to millikelvin temperatures, thanks to its unusual lattice structure.

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- 563 Anisotropic Energy Gaps of Iron-Based Superconductivity from Intraband Quasiparticle Interference in LiFeAs
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The energy needed to break up electron pairs in a pnictide superconductor depends on position on the Fermi surface.

- 567 Magnetic Reconnection in the Near Venusian Magnetotail
T. L. Zhang et al.

Venus Express observations show that magnetic reconnection occurs in the magnetotail of an unmagnetized planet.

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- 570 Ancient Impact and Aqueous Processes at Endeavour Crater, Mars
S. W. Squyres et al.

Analysis of data from the Mars Exploration Rover Opportunity provides evidence for past water flow near an ancient crater.

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- 576 21st-Century Evolution of Greenland Outlet Glacier Velocities
T. Moon et al.

A decade-long compilation of velocity data for Greenland's outlet glaciers shows complex spatial and temporal variability.

- 579 Imaginal Discs Secrete Insulin-Like Peptide 8 to Mediate Plasticity of Growth and Maturation
A. Garelli et al.

An insulin/relaxin-like peptide coordinates final organ size in response to fly injury and tumors.

- 582 Secreted Peptide Dilp8 Coordinates *Drosophila* Tissue Growth with Developmental Timing
J. Colombani et al.

In fruit flies, growing tissues send signals to the endocrine system to coordinate growth and metamorphosis.

- 585 Function, Developmental Genetics, and Fitness Consequences of a Sexually Antagonistic Trait
A. Khila et al.

Sex-specific modifications of male water strider antennae that are important for mating require *distal-less* gene expression.

- 589 Impacts of Biodiversity Loss Escalate Through Time as Redundancy Fades
P. B. Reich et al.

Long-term grassland experiments show that high-diversity species combinations become more functionally diverse with time.

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A. Sfeir and T. de Lange

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Imaging reveals single-channel openings of cation channels at the heart of endothelial cell-mediated blood pressure control.

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A key design principle of bacterial metabolic networks is optimal performance, but not at the expense of adaptability.

- 604 Radio-Wave Heating of Iron Oxide Nanoparticles Can Regulate Plasma Glucose in Mice
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Gene expression in mice can be activated remotely and noninvasively by radio-wave heating of nanoparticles.

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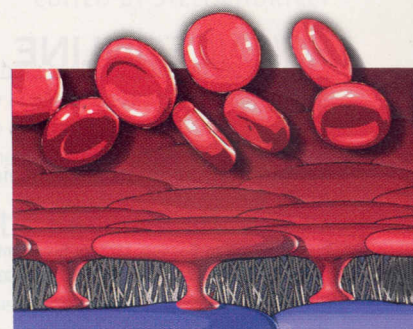
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Seasonal diatom growth in the North Sea results in a temporal succession of metabolically specialized bacteria.

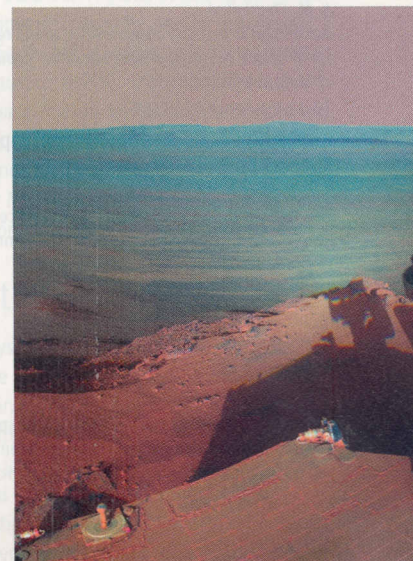
- 612 Don't Look Back in Anger! Responsiveness to Missed Chances in Successful and Unsuccessful Aging
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Emotionally healthy older adults show a reduced responsiveness to regret when performing a sequential decision task.

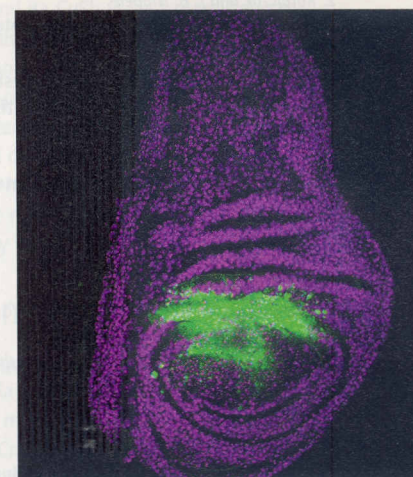
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