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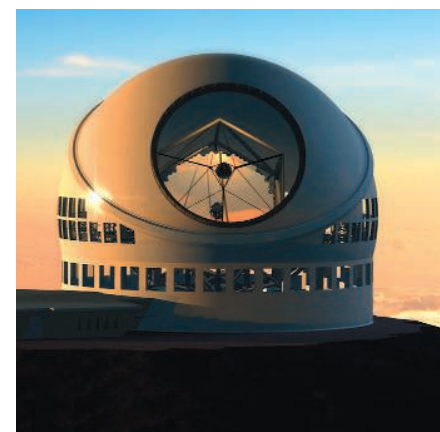
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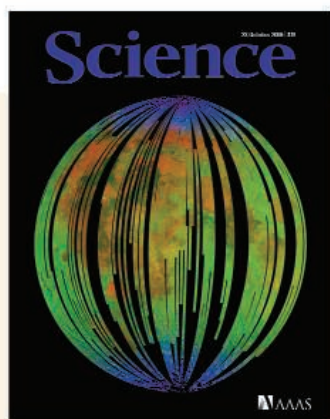
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COVER

A three-color mosaic derived from the Moon Mineralogy Mapper (M^3) near-infrared spectrometer. Orange and pink colors illustrate the distribution of iron-bearing minerals. Green represents the surface brightness at 2.4 micrometers. Blue indicates the presence of small amounts of surficial OH and H_2O that are most prominent at these viewing geometries at cooler, higher latitudes. See page 568.

Image: NASA/ISRO/Brown University/R. N. Clark, USGS

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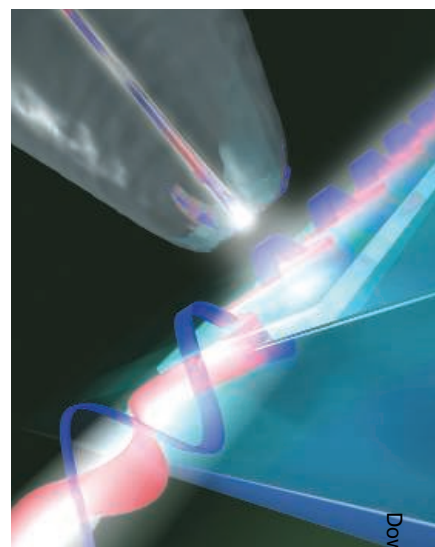
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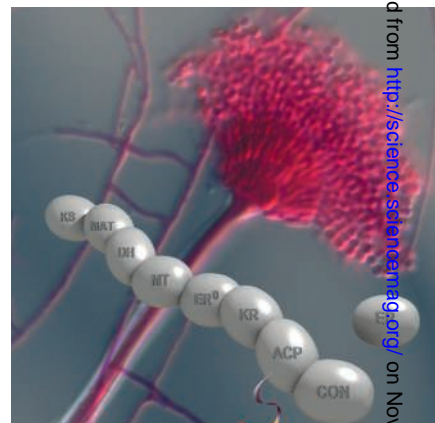
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- 544 **RNAi in Budding Yeast**
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- 556 **Isolation of a C5-Deprotonated Imidazolium, a Crystalline "Abnormal" N-Heterocyclic Carbene**
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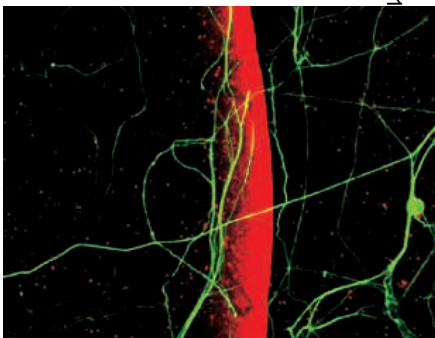
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10.1126/science.1181829

Altered Heterochromatin Binding by a Hybrid Sterility Protein in *Drosophila* Sibling Species

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A male sterility protein localizes to evolutionarily dynamic loci within heterochromatin and leads to their decondensation.
10.1126/science.1181756

Planarian Hh Signaling Regulates Regeneration Polarity and Links Hh Pathway Evolution to Cilia

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Analysis of the Hedgehog signaling pathway in planaria suggests an ancestral association of this signaling pathway and cilia function.
10.1126/science.1178712

Indirect Emissions from Biofuels: How Important?

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Nanoplasmonic Probes of Catalytic Reactions

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Reactant concentrations can be measured as plasmon frequency shifts for model catalysts grown on nanoscale gold disks.
10.1126/science.1176593

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A low concentration paracrine TNF- α signal contributes to the variability in NF- κ B activation dynamics in the response to lipopolysaccharide.

RESEARCH ARTICLE: Two Mechanistically and Temporally Distinct NF- κ B Activation Pathways in IL-1 Signaling

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PERSPECTIVE: Schizophrenia—The “BLOC” May Be in the Endosomes

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REVIEW: G Protein–Coupled Receptors, Cholinergic Dysfunction, and A β Toxicity in Alzheimer’s Disease

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Clinical information from the doctor’s office should be harnessed to inform health care decisions.

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Computational mapping can be used for discovery and repurposing of existing drugs.

RESEARCH ARTICLE: Radioprotection in Normal Tissue and Delayed Tumor Growth by Blockade of CD47 Signaling

J. Maxhimer et al.

Inhibition of a membrane receptor protects normal tissue from radiation injury and delays tumor growth.

RESEARCH ARTICLE: Slow Elimination of Multidrug-Resistant Tuberculosis

C. Dye and B. G. Williams

The spread of drug-resistant TB can be reversed through better treatment and diagnosis.

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