

SPECIAL SECTION

Tuberculosis & Malaria

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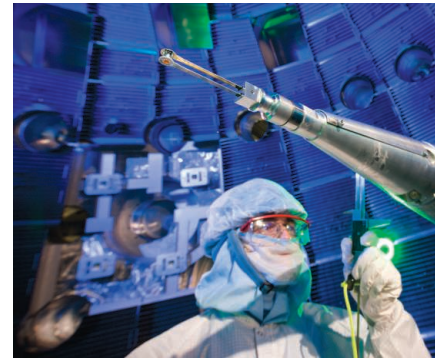
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Photo: Adam Nadel (www.adamnadel.net) for Malaria Consortium, www.malaria-bloodsweatandtears.com/

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Collective Lamb Shift in Single-Photon Superradiance

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Superradiance is observed from an ensemble of iron atoms excited by synchrotron radiation.

10.1126/science.1187770

Genetic Evidence for High-Altitude Adaptation in Tibet

T. S. Simonson et al.

A candidate gene approach reveals genes under selection in humans living at high altitudes.

10.1126/science.1189406

Mirid Bug Outbreaks in Multiple Crops Correlated with Wide-Scale Adoption of Bt Cotton in China

Y. Lu et al.

The use of more specific pesticides results in the resurgence of nontargeted insect populations.

10.1126/science.1187881

Prion Strain Mutation Determined by Prion Protein Conformational Compatibility and Primary Structure

R. C. Angers et al.

The stability of two related strains is influenced by a species-specific amino acid difference in deer and elk prions.

10.1126/science.1187107

miR-33 Contributes to the Regulation of Cholesterol Homeostasis

K. J. Rayner et al.

10.1126/science.1189862

MicroRNA-33 and the SREBP Host Genes Cooperate to Control Cholesterol Homeostasis

S. H. Najafi-Shoushtari et al.

A small noncoding RNA helps regulate cholesterol levels in mice.

10.1126/science.1189123

TECHNICAL COMMENTS

Comment on "Detection of an Infectious Retrovirus, XMRV, in Blood Cells of Patients with Chronic Fatigue Syndrome"

C. Sudlow et al.

Full text at www.sciencemag.org/cgi/content/full/328/5980/825-a

A. Lloyd et al.

Full text at www.sciencemag.org/cgi/content/full/328/5980/825-b

J. W. M. van der Meer et al.

Full text at www.sciencemag.org/cgi/content/full/328/5980/825-c

Response to Comments on "Detection of an Infectious Retrovirus, XMRV, in Blood Cells of Patients with Chronic Fatigue Syndrome"

J. A. Mikovits and F. W. Ruscetti

Full text at www.sciencemag.org/cgi/content/full/328/5980/825-d

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RESEARCH ARTICLE: G β γ Activates GSK3 to Promote LRP6-Mediated β -Catenin Transcriptional Activity

K. K. Jernigan et al.

A *Xenopus* reconstitution system reveals that the G protein G β γ subunit contributes to β -catenin stabilization.

RESEARCH ARTICLE: Dynamics of Subsynaptic Vesicles and Surface Microclusters at the Immunological Synapse

M. A. Purbhoo et al.

PERSPECTIVE: T Cell Activation at the Immunological Synapse—Vesicles Emerge for LATer Signaling

D. D. Billadeau

Vesicles dynamically deliver the T cell adaptor protein LAT to sites of T cell signalosomes.

PODCAST

D. Q. Matus et al.

Genes that affect development of the nematode gonad are implicated in cell invasion and metastasis.

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B. L. Benderly

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S. Carpenter

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W. Fortson

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C. T. Jordan

Cell surface molecules that are selectively expressed on leukemia stem cells may pave the way for antibody-based diagnostics or therapeutics.

PERSPECTIVE: Function Follows Form—Defining Mammary Stem Cells

M. dm Vivanco

Functional isolation of normal mammary stem cells offers molecular insights into these cells and their cancerous counterparts.

RESEARCH ARTICLE: Spectral Responses of the Human Circadian System Depend on the Irradiance and Duration of Exposure to Light

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Circadian responses to long-wavelength light suggest a previously unrecognized role for cone photoreceptors.

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E. D. Michelakis et al.

EDITORIAL: Targeting Cell Metabolism in Cancer Patients

M. G. Vander Heiden

Dichloroacetate shifts metabolism away from aerobic glycolysis in glioblastoma tumor cells and may have clinical efficacy in patients.

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328 (5980)

Science **328** (5980), 787-923.

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