

SPECIAL SECTION

## Tuberculosis & Malaria

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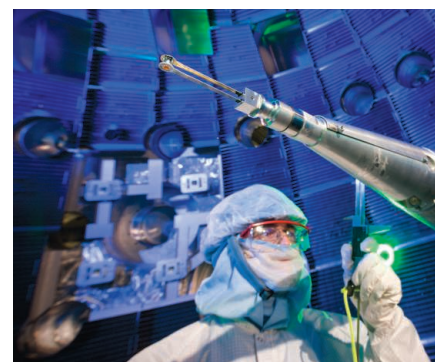
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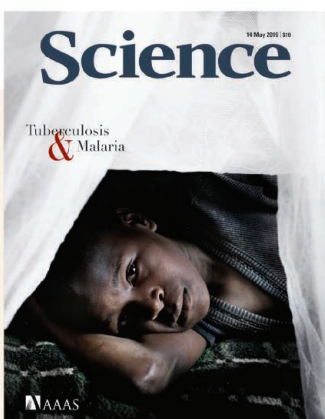
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*Photo: Adam Nadel (www.adamnadel.net) for Malaria Consortium, www.malaria-bloodsweatandtears.com/*

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## SCIENCEONLINE

## SCIENCEEXPRESS

[www.scienceexpress.org](http://www.scienceexpress.org)

### Collective Lamb Shift in Single-Photon Superradiance

R. Röhlsberger et al.

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](http://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](http://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](http://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](http://www.sciencemag.org/cgi/content/full/328/5980/825-d)

## SCIENCE NOW

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Researchers find a new answer to the puzzle by recreating the gas giant in the lab.

### Bonding With Offspring Grows New Neurons in the Mouse Brain

Extra gray matter helps dad remember and protect his kids later in life.

### X-Ray Vision, Without the Radiation

New terahertz lens could see through materials opaque to visual and infrared light.

## SCIENCE SIGNALING

[www.sciencesignaling.org](http://www.sciencesignaling.org)

The Signal Transduction Knowledge Environment

### RESEARCH ARTICLE: G $\beta$ γ Activates GSK3 to Promote LRP6-Mediated $\beta$ -Catenin Transcriptional Activity

K. K. Jernigan et al.

A *Xenopus* reconstitution system reveals that the G protein G $\beta$ γ subunit contributes to  $\beta$ -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.

## SCIENCE CAREERS

[www.sciencereers.org/career\\_magazine](http://www.sciencereers.org/career_magazine)

Free Career Resources for Scientists

### Taken for Granted: Intimate Collaborations

B. L. Benderly

Scientists' propensity to pair up romantically can help or hurt their careers.

### Peering Inside the Social Brain

S. Carpenter

The brain's processing of social information has fueled an explosion of research and research careers.

### In Person: Studying the Implications of New Medical Technologies

W. Fortson

People with scientific training are needed to explore ethical and legal issues of science in the clinic.

## SCIENCE TRANSLATIONAL MEDICINE

[www.sciencetranslationalmedicine.org](http://www.sciencetranslationalmedicine.org)

Integrating Medicine and Science

### PERSPECTIVE: Targeting Myeloid Leukemia Stem Cells

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

J. J. Gooley et al.

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.

## SCIENCE PODCAST

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Science Policy News and Analysis

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