

Science

14 May 2010 | \$10

Tuberculosis
& Malaria



SPECIAL SECTION

Tuberculosis & Malaria

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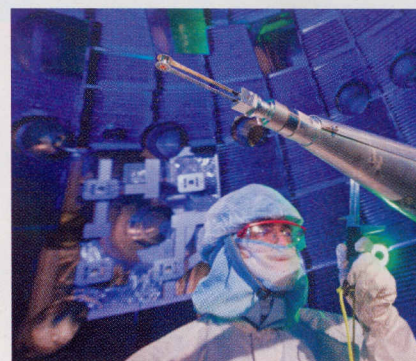
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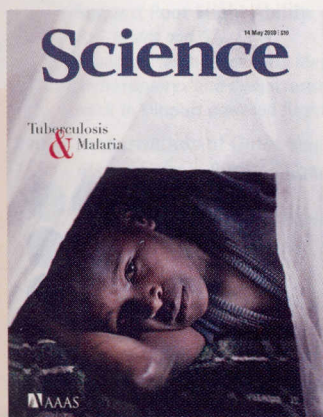
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Photo: Adam Nadel (www.adamnadel.net) for Malaria Consortium, www.malaria-bloodsweatandtears.com/

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M. Schönbachler et al.

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- 910 **A Plant-Like Kinase in *Plasmodium falciparum* Regulates Parasite Egress from Erythrocytes**

J. D. Dvorin et al.

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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

TECHNICALCOMMENTS

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

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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.

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RESEARCH ARTICLE: G $\beta\gamma$ 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 $\beta\gamma$ 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.

SCIENCE CAREERS

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.

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

RESEARCH ARTICLE: Metabolic Modulation of Glioblastoma with Dichloroacetate
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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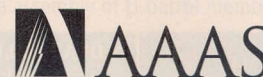
Download the 14 May *Science* Podcast to hear about dwindling lizard diversity, carbon dioxide inhibition of plant nitrogen assimilation, malaria drugs losing their punch, and more.

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Science Policy News and Analysis

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