CONTENTS
27 MARCH 2015 • VOLUME 347 • ISSUE 6229
1410

NEWS

IN BRIEF
1398 Roundup of the week’s news

IN DEPTH
1402 MARS ROVER FINDS LONG-CHAIN ORGANIC COMPOUNDS
Complex carbon molecules show that clues to past life—if any—could survive harsh martian conditions By E. Hand
1403 ‘Fixed’ nitrogen found in martian soil By E. Hand
1404 HIMALAYAN ICE CAN FOOL CLIMATE STUDIES
“Surging” glaciers in the Karakoram may actually be losing mass By J. Qiu
1406 A €1 BILLION BRAIN REBOOT
Critics of Europe’s Human Brain Project are vindicated By M. Enserink
1407 A REASSURING SNAPSHOT OF EBOLA
Virus sequences from Mali suggest that pathogen has not changed enough to elude potential vaccines or treatments By G. Vogel

FEATURE
1410 CAUSE OF DEATH
No one knows why many people die in developing countries. Minimally invasive autopsies could change that—and transform global health By S. Kean

INSIGHTS

PERSPECTIVES
1414 HOW TO BOLSTER THE ANTIFUNGAL PIPELINE
Few drugs are coming to market, but opportunities for drug development exist By D. W. Denning and M. J. Bromley
1417 EXPLOITING WEAK INTERACTIONS IN DNA SELF-ASSEMBLY
Weak stacking interactions allow dynamic assembly and disassembly of DNA origami shapes By W. M. Shih
1418 TREATING BRAIN DISORDERS WITH NEUROMODULATION
Nanoparticles, magnetic fields, and heat-sensitive ion channels are harnessed to manipulate brain activity By Y. Temel and A. Jahanshahi

1420 DO BIOFUEL POLICIES SEEK TO CUT EMISSIONS BY CUTTING FOOD?
Major models should make trade-offs more transparent By T. Searchinger et al.
1422 FOR COMPLEX DISEASE GENETICS, COLLABORATION DRIVES PROGRESS
Exome sequencing identifies a gene that causes amyotrophic lateral sclerosis By A. B. Singleton and B. J. Traynor

1423 SORTING OUT LIGHT
Controlled interference can separate overlapping light beams for device functionality By D. A. B. Miller

BOOKS ET AL.
1425 IVAN PAVLOV
By D. P. Todes, reviewed by S. T. Casper
1426 THE ART OF INSIGHT IN SCIENCE AND ENGINEERING
By S. Mahajan, reviewed by S. Derrible
1426 WONDERS OF THE PLANT KINGDOM
By W. Stuppy et al.
1427 BRAZIL’S DROUGHT: BEWARE DEFORESTATION
By A. G. Nazareno and W. F. Laurance

1427 BRAZIL’S DROUGHT: PROTECT BIODIVERSITY
By J. R. S. Vitule et al.

1427 ONLINE BUZZ: SCIENCE EDUCATION

RESEARCH

IN BRIEF
1432 From Science and other journals

REVIEW
1435 POLLINATION
Bee declines driven by combined stress from parasites, pesticides, and lack of flowers D. Goulson et al.

1452 NUCLEAR PHYSICS
Ab initio calculation of the neutron-proton mass difference S. Borsanyi et al.

1455 QUANTUM GASES
Crystallization in Ising quantum magnets P. Schauß et al.

1459 SUPERNOVAE
Distances with <4% precision from type Ia supernovae in young star-forming environments P. L. Kelly et al.

1462 DARK MATTER
The nongravitational interactions of dark matter in colliding galaxy clusters D. Harvey et al.

1465 NEURODEVELOPMENT
Human-specific gene ARHGAP11B promotes basal progenitor amplification and neocortex expansion M. Florio et al.

1470 PARASITOLOGY
The in vivo dynamics of antigenic variation in Trypanosoma brucei M. R. Mugnier et al.

1473 GEOMICROBIOLOGY
Redox cycling of Fe(II) and Fe(III) in magnetite by Fe-metabolizing bacteria J. M. Byrne et al.

1477 NEUROTECHNIQUES
Wireless magnetothermal deep brain stimulation R. Chen et al.

1480 SOCIAL SCIENCE
Intergenerational transmission of child abuse and neglect: Real or detection bias? C. S. Widom et al.

1485 SNARE PROTEINS
Spring-loaded unraveling of a single SNARE complex by NSF in one round of ATP turnover J.-K. Ryu et al.

ON THE COVER
The cargo adaptor Bicaudal-D2 (orange) brings the dynein motor complex (yellow) together with its essential cofactor dynactin (red). This giant complex of 37 proteins drags cellular cargos for long distances along microtubules (blue). Cryo–electron microscopy provides insight into the structural assembly and operation of this supracomplex. See page 1441.

Illustration: Chris Bickel/Science