IN BRIEF
284 Roundup of the week’s news

IN DEPTH
287 FOR VENEZUELAN ACADEMICS, SPEAKING OUT IS RISKY BUSINESS
Government attacks some, snares many in red tape By L. Wade

288 ‘NONADHERENCE’: A BITTER PILL FOR DRUG TRIALS
Drug developers seek new ways to ensure that subjects take their medicine By K. Servick

289 EBOLA VACCINE TRIALS RAISE ETHICAL ISSUES
Randomized studies may offer fastest answer By J. Cohen and K. Kupferschmidt

290 LIGHT LOOPHOLE WINS LAURELS
Chemistry Nobel winners pushed microscopes past supposed limit By D. Clery

291 REGULATING INDUSTRY’S BIG BOYS
French economist Jean Tirole wins Nobel for his analyses of oligopolies By T. Rabesandratana

FEATURE
292 BABOON WATCH
An epic baboon study shows how social interactions shape health and reproduction in all primates—including humans By E. Pennisi

NEWS

296 CHANGES ON THE HORIZON FOR CONSUMER GENOMICS IN THE EU
Test results may no longer be available directly to consumers By L. Kalokairinou et al.

298 TO LEARN IS TO MYELINATE
The adult mammalian brain requires the production of new glial cells and myelin for learning By P. Long and G. Corfas
▶ RESEARCH ARTICLE P. 318

300 NUTRIENT COMPUTATION FOR ROOT ARCHITECTURE
Plants sense and respond to nutrients using a peptide signaling system By T. Bisseling and B. Scheres
▶ REPORT P. 343

301 SENSING BIODIVERSITY
Sophisticated networks are required to make the best use of biodiversity data from satellites and in situ sensors By W. Turner

303 POTASSIUM IONS LINE UP
Do K⁺ ions move in single file through potassium channels? By G. Hummer
▶ REPORT P. 352

304 IN OPTICAL PUMPING, LESS CAN BE MORE
Creating loss in one optical resonator can initiate lasing in its coupled partner By H. L. Swaepefl
▶ REPORT P. 328

305 LOOKING CLOSER AT THE SUN
The space-based IRIS telescope provides a new window to view the solar atmosphere By L. K. Harra
▶ EYEING THE SUN SECTION P. 315

BOOKS ET AL.
307 WHAT IS YOUR RACE?
By K. Prewitt, reviewed by P. Schor

LETTERS
308 BEFORE THE KARDASHIAN INDEX
By G. R. Goldsmith

308 NUANCED NEGATIVE RESULT REPORTING
By S. K. Lhachimi et al.

308 SUPPORT UNDERWAY FOR COASTAL ECOSYSTEMS
By D. S. Schinn

309 SCIENCE AND RELIGION: THINK LOCAL
By J. M. Hanes

DEPARTMENTS
283 EDITORIAL
“Epicenters” of resilience By Mary Lou Zoback

390 WORKING LIFE
Life inspires applications By Sharon Ann Holgate

Published by AAAS
IN BRIEF

310 From Science and other journals

REVIEWS

313 APPLIED EVOLUTION
Applying evolutionary biology to address global challenges S. P. Carroll et al.

REPORTS

322 PLANETARY GEOLOGY
Constraints on Mimas’ interior from Cassini ISS libration measurements R. Tajeddine et al.

325 LAB ASTROPHYSICS
Laboratory formation of a scaled protostellar jet by coaligned poloidal magnetic field B. Albertazzi et al.

328 OPTICS
Loss-induced suppression and revival of lasing B. Peng et al.

332 QUANTUM ELECTRONICS
Cavity quantum electrodynamics with many-body states of a two-dimensional electron gas S. Smolka et al.

336 ATTOSECOND DYNAMICS
Ultrafast electron dynamics in phenylalanine initiated by attosecond pulses F. Calegari et al.

340 STRATEGIC REASONING
Neural correlates of strategic reasoning during competitive games H. Seo et al.

343 NITROGEN UPTAKE
Perception of root-derived peptides by shoot LRR-RKs mediates systemic N-demand signaling R. Tabata et al.

346 TROPHIC CASCADES
Large carnivores make savanna tree communities less thorny A. T. Ford et al.

ON THE COVER

Ultraviolet view of a coronal mass ejection on the Sun on 9 May 2014. Images from the Interface Region Imaging Spectrograph (IRIS) (inset) and from the Solar Dynamics Observatory’s Atmospheric Imaging Assembly (background) show the violent eruption of hot plasma into space. NASA launched IRIS in June 2013 to study the complex interface between the Sun’s surface and outer atmosphere. See pages 305 and 315 and sciencemag.org/special/iris.

Images: IRIS and SDO/AIA, Lockheed Martin Solar & Astrophysics Laboratory, NASA/Goddard Space Flight Center

Published by AAAS
17 OCTOBER 2014 • VOL 346 ISSUE 6207 281
Science 346 (6207), 283-390.

http://science.sciencemag.org/content/346/6207

http://www.sciencemag.org/help/reprints-and-permissions