EDITORIAL
215 Pathways for Conservation
Susan M. Haig et al.

NEWS OF THE WEEK
220 A roundup of the week’s top stories

NEWS & ANALYSIS
223 Tampered Data Cast Shadow on Drug Trial
224 Latest Skirmish Over Ancestral Violence Strikes Blow for Peace
>> Report p. 270
225 Spain’s Research Council Approaches Bankruptcy
226 Ever-Bigger Viruses Shake Tree of Life
>> Report p. 281
227 Germany Debates How to Strengthen Universities
229 Mars Rover Plans Roll While Asteroid Acrimony Continues

NEWS FOCUS
230 BIOGEOGRAPHY
Battle for the Americas
Salvage Paleontology on the Seaway
>> Science Podcast
234 The Amazon in 4D

LETTERS
236 Turkey Must End Violent Response to Protests
E. Altindis et al.
Optimizing Peer Review of Software Code
P. Sliz and A. Morin
Response
L. N. Joppa et al.
237 CORRECTIONS AND CLARIFICATIONS
237 TECHNICAL COMMENT ABSTRACTS

BOOKS ET AL.
238 Toms River
D. Fagin, reviewed by J. Tuomisto
239 The Cost Disease
W. J. Baumol, reviewed by A. Chandra

EDUCATION FORUM
240 Crowdsourcing and Curating Online Education Resources
D. Porcello and S. Hsi

PERPECTIVES
242 Trans-HSF1 Express
V. Gandin and I. Topisirovic
>> Research Article p. 250
243 Droplets Out of Equilibrium
T. M. Hermans et al.
>> Report p. 253
244 100 Years of Atomic Theory
D. C. Clary
245 Enhancing Pluripotency and Lineage Specification
W. Xie and B. Ren
247 Multiscale Design and Integration of Sustainable Building Functions
M. P. Gutierrez and L. P. Lee
>> Science Podcast

REVIEW
249 Applications of Acceptorless Dehydrogenation and Related Transformations in Chemical Synthesis
C. Gunanathan and D. Milstein
Review Summary; for full text:
http://dx.doi.org/10.1126/science.1229712

RESEARCH ARTICLE
250 Tight Coordination of Protein Translation and HSF1 Activation Supports the Anabolic Malignant State
S. Santagata et al.
Chemical and genetic screening links ribosome activity levels and a transcriptional regulator in malignant cells.
Research Article Summary; for full text:
http://dx.doi.org/10.1126/science.1238303
>> Perspective p. 242

ON THE WEB THIS WEEK
>> Science Podcast
Listen to stories on interdisciplinary buildings, measuring the martian atmosphere, an isthmus miracle, and more.
>> Find More Online
Check out Science Express, our podcast, videos, daily news, our research journals, and Science Careers at www.sciencemag.org.

COVER
Enhanced transmission electron microscopy image of a “Pandoravirus” particle (length: 1.2 micrometers). Despite obeying all criteria to discriminate viruses from cells (no ribosome, no adenosine triphosphate production, no division), these Acanthamoeba viruses, unrelated to previously recognized virus families, exhibit genomes of up to 2.5 megabases, encoding more genes than some microsporidia. See pages 226 and 281.

Image: O. Poirot/Structural and Genomic Information Laboratory, CNRS Aix-Marseille Université

DEPARTMENTS
214 This Week in Science
216 Editors’ Choice
218 Science Staff
299 New Products
300 Science Careers
251 Bright Hot Impacts by Erupted Fragments Falling Back on the Sun: A Template for Stellar Accretion
F. Reale et al.
Analysis of plasma downflows after a solar eruption suggests that these events can be used to understand stellar accretion.

253 Switchable Static and Dynamic Self-Assembly of Magnetic Droplets on Superhydrophobic Surfaces
J. V. I. Timonen et al.
Magnetic droplets oscillate between static and dynamic self-assembly patterns in a magnetic field. ➞ Perspective p. 243

257 Ultrahigh Magnetoresistance at Room Temperature in Molecular Wires
R. N. Mahato et al.
The conduction of molecular wires embedded in a zeolite host crystal is almost entirely blocked in small magnetic fields.

260 Isotope Ratios of H, C, and O in CO
d and H2O of the Martian Atmosphere
C. R. Webster et al.
Science Podcast

263 Abundance and Isotopic Composition of Gases in the Martian Atmosphere from the Curiosity Rover
P. R. Mahaffy et al.
Data from the Curiosity rover provide a detailed account of the chemical and isotopic composition of Mars’ atmosphere.

266 Ice-Shelf Melting Around Antarctica
E. Rignot et al.
Basal melting of Antarctic ice shelves accounts for as much mass loss as does iceberg calving.

270 Lethal Aggression in Mobile Forager Bands and Implications for the Origins of War
D. P. Fry and P. Söderberg
Nomadic foragers are less warlike than assumed, suggesting that war may not have been an early component of human behavior. ➞ News story p. 224

273 Interactions of Multisensory Components Perceptually Rescue Túngara Frog Mating Signals
R. C. Taylor and M. J. Ryan
Mating signals that females find unattractive when presented singly become attractive when combined.

275 Loss of Function of the Melanocortin 2 Receptor Accessory Protein 2 Is Associated with Mammalian Obesity
M. Asai et al.
Disruption of a protein required for effective signaling by a melanocortin receptor causes severe obesity in mice.

278 Developmental Control of the Melanocortin-4 Receptor by MRAP2 Proteins in Zebrafish
J. A. Sebag et al.
A study in zebrafish sheds light on the signaling properties of a protein implicated in severe obesity in mice.

281 Pandoraviruses: Amoeba Viruses with Genomes Up to 2.5 Mb Reaching That of Parasitic Eukaryotes
N. Philippe et al.
Giant viruses that infect Southern Hemisphere Acanthamoeba and are visible under the light microscope have been identified. ➞ News story p. 226

286 Sept4/ARTS Regulates Stem Cell Apoptosis and Skin Regeneration
Y. Fuchs et al.
Elimination of a proapoptotic gene increases hair follicle stem cells and improves skin regeneration and wound repair in mice.

290 How the Red Queen Drives Terrestrial Mammals to Extinction
T. B. Quental and C. R. Marshall
Loss of diversity among Cenozoic land mammals suggests a failure to keep pace with a deteriorating environment.

292 Exceptional Convergence on the Macroevolutionary Landscape in Island Lizard Radiations
D. L. Mahler et al.
A comparative study describes morphological evolution across the entire Greater Antillean anole lizard fauna.

295 Predicting and Manipulating Cardiac Drug Inactivation by the Human Gut Bacterium Eggerthella lenta
H. J. Haiser et al.
The heart drug digoxin can be inactivated by a strain of gut microbe bearing a cardiac glycoside reductase operon.