IN BRIEF
1356 News at a glance

IN DEPTH
1359 ANTISENSE RESCUES BABIES FROM KILLER DISEASE
Spinal muscular atrophy drug may herald treatments for other genetic brain illnesses By M. Wadman

1361 IN CANADA, CASE SPURS CONCERN OVER MISCONDUCT SECRECY
Government, universities should name offenders, critics say By A. Komnenic

1362 COST OF CARBON CAPTURE DROPS, BUT DOES ANYONE WANT IT?
Lure of technologies could fade with Trump administration By R. F. Service

1363 NEW BIRD FLU STRAIN BRINGS DEATH AND QUESTIONS
H5N8 is killing birds around Europe and the Middle East but appears harmless to humans By K. Kupferschmidt

1364 TRUMP TEAM TARGETS KEY CLIMATE METRIC
“Social cost of carbon” to get a critical look from incoming administration By D. Malakoff, R. F. Service, and W. Cornwall

FEATURES
1366 SOME LIKE IT HOT
Iran's Lut Desert—Earth's hottest—is devoid of plants but somehow sustains a vibrant ecosystem By R. Stone

1369 AFTER THE VANISHING
Savvy anthropologists mix science and legal skills to help the families of Mexico's disappeared By L. Wade

PODCAST

INSIGHTS

POLICY FORUM
1372 U.S. SEAFOOD IMPORT RESTRICTION PRESENTS OPPORTUNITY AND RISK
Marine mammal protections require increased global capacity By R. Williams et al.

PERSPECTIVES
1375 HOW HIGH WILL THE SEAS RISE?
Coastal defense measures must be flexible in the face of rising sea level estimates By M. Oppenheimer and R. B. Alley

1377 STARVING THE ENEMY
Plants respond to pathogen infection by relocating sugar from bacterial colonization sites By P. N. Dodds and E. S. Lagudah

REPORT P. 1427

1378 TOWARD SUSTAINABLE FUEL CELLS
Improved fuel-cell catalysts require much less platinum for the same performance By I. E. L. Stephens et al.

REPORTS PP. 1410 & 1414

1380 UNDERSTANDING INDUCED SEISMICITY
Observational data sets provide a clearer picture of the causes of induced seismicity By D. E. Elsworth et al.

REPORT P. 1406

1382 JOHN D. ROBERTS (1918–2016)
One of the great leaders of modern chemistry during the field's most exciting time By G. M. Whitesides

BOOKS ET AL.
1383 THE CALCULATORS
Two tomes uncover how women broke down barriers to explore the universe By C. Christian

1384 THE AFTERMATH OF AIDS IN CHINA
A candid history uncovers the country's stumbles and successes in the fight against the devastating virus By K. Harper

LETTERS
1385 EDITORIAL RETraction
By J. Berg

1385 PRIORITIZING GOOD DIETS
By D. A. Cleveland

1386 INDIRECT IMPACTS OF CLIMATE CHANGE
By R. J. Smithers and M. Blicharska

1386 ERRATA

DEPARTMENTS
1355 EDITORIAL
Science's rightful place
By Jeremy Berg

1494 WORKING LIFE
Living up to my mentors
By Barbara Gastel

Science Staff ............................................ 1354
New Products ........................................... 1445
Science Careers ................................. 1446
CONTENTS

16 DECEMBER 2016 • VOLUME 354 • ISSUE 6318

RESEARCH

IN BRIEF
1387 From Science and other journals

REVIEW
1390 ANTIBIOTIC RESISTANCE
Mechanisms of bacterial persistence during stress and antibiotic exposure
A. Harms et al.

REPORTS
1391 PHOTOCHEMISTRY
Enantioselective photochemistry through Lewis acid–catalyzed triplet energy transfer
T. R. Blum et al.

VOLCANOLOGY
1395 Seismic constraints on caldera dynamics from the 2015 Axial Seamount eruption
W. S. D. Wilcock et al.

1399 Inflation-predictable behavior and co-eruption deformation at Axial Seamount S. L. Nooner and W. W. Chadwick Jr.

1403 GEOCHEMISTRY
Large gem diamonds from metallic liquid in Earth’s deep mantle
E. M. Smith et al.

1406 INDUCED SEISMICITY
Fault activation by hydraulic fracturing in western Canada X. Bao and D. W. Eaton

1423 CONSERVATION
A global map of roadless areas and their conservation status
P. L. Ibisch et al.

1427 PLANT PATHOLOGY
Regulation of sugar transporter activity for antibacterial defense in Arabidopsis
K. Yamada et al.

1431 RIBOSOMES
The cryo-EM structure of a ribosome–Ski2-Ski3-Ski8 helicase complex C. Schmidt et al.

1437 STRUCTURAL BIOLOGY
Translational termination without a stop codon
N. R. James et al.

1441 PROTEIN ENGINEERING
Engineering extrinsic disorder to control protein activity in living cells
O. Dagliyan et al.

ON THE COVER
Standing at ~7-centimeters tall, this 404.2-carat rough diamond was recovered from the Lulo mine, Angola, in February 2016. Evidence from the interior of such large gem diamonds suggests that these diamonds grow from an iron-nickel metallic liquid in Earth’s deep convecting mantle. The presence of metal in regions of the deep mantle has broad implications for Earth’s geologic evolution. See page 1403. Photo: © SPOA/Orel SIMON

Published by AAAS
16 DECEMBER 2016 • VOL 354 ISSUE 6318 1353
Science 354 (6318), 1355-1494.