1331 WHEN THE BAT SINGSThe trills and chirps of bats can be as complex and meaningful as bird song—and may be a closer analog for human speech By V. Morell

INSIGHTS

PERSPECTIVES

1338 HOW TO BUILD A NEANDERTALFossils from Sima de los Huesos show a mixture of Neandertal and more ancient features By J.-J. Hublin ▶ RESEARCH ARTICLE P. 1358

1340 CONNECTING THE DOTSUnderstanding nanocrystal surfaces helps to direct their assembly into novel material architectures By M. A. Boles and D. V. Talapin ▶ REPORTS PP. 1377 & 1380

1341 A CELL DEATH AVENUE EVOLVED FROM A LIFE-SAVING PATHAltruistic cell suicide model is challenged By H. H. Kampinga ▶ REPORT P. 1389

1343 TEACHING THE IMMUNE SYSTEM “SELF” RESPECT AND TOLERANCEAn anti-inflammatory milieu promotes immune tolerance By L. Chatenoud

NEWS

IN BRIEF

1324 Roundup of the week’s news

IN DEPTH

1327 NIH PUTS MASSIVE U.S. CHILDREN’S STUDY ON HOLDNational Academies report calls for overhaul By J. Kaiser

1328 JUST ONE PROPOSAL PER YEAR, PLEASE, NSF TELLS ASTRONOMERSAs success rates drop, agency seeks to limit applications By J. Mervis

1329 ‘RIGHT TO TRY’ LAWS BYPASS FDA FOR LAST-DITCH TREATMENTSBut companies may be reluctant to supply unapproved drugs By K. Seriick

1330 QUANTUM OR NOT, CONTROVERSIAL COMPUTER YIELDS NO SPEEDUPConventional computer ties D-Wave machine By A. Cho ▶ SCIENCE EXPRESS REPORT BY T. F. RÖNNOW ET AL.

1331 WAS AMERICA ‘DISCOVERED’ IN MEDIEVAL CENTRAL ASIA?Ancient texts suggest Silk Road polymath inferred the existence of unknown continents By R. Stone

1332 SECRET BUNDLES OF PROFITStudy lifts veil on journal price negotiations By J. Bohannon

1344 ELECTRONICALLY ERASEDErasing knowledge of a quantum system changes its state By D. E. Feldman ▶ REPORT P. 1363

1345 HOW CARRION AND HOODED CROWS DEFEAT LINNAEUS’S CURSEHow two crow species maintain their identity raises questions about species concepts By P. de Knijff ▶ REPORT P. 1410

1346 ENABLING THE GENOMIC REVOLUTION IN AFRICAH3Africa is developing capacity for health-related genomics research in Africa By The H3Africa Consortium

BOOKS ET AL.

1349 SECOND GROWTHBy R. L. Chazdon, reviewed by V. Kapos

1350 COMING TO OUR SENSESBy V. McCabe, reviewed by A. Walker-Andrews

LETTERS

1351 BIOLOGY’S DRONES: UNDERMINED BY FEARBy T. Humle et al.

1351 BIOLOGY’S DRONES: NEW AND IMPROVEDBy C. Luo et al.

1351 INVESTIGATIVE BIOETHICSBY K. L. Galbraith

1352 DEEP-SEA PROTECTION: COORDINATE EFFORTSBY C. Gobin and G. A. B. da Fonseca

DEPARTMENTS

1323 EDITORIALWarming U.S.-Russia relations By Cathleen A. Campbell

1422 WORKING LIFENew Products.................................1415

1416 Science Careers................................1416
RESEARCH

IN BRIEF

1354 From Science and other journals

REVIEW

1357 SOCIAL COGNITION
The cultural evolution of mind reading
C. M. Heyes and C. D. Frith

REVIEW SUMMARY: FOR FULL TEXT:
HTTP://DX.DOI.ORG/10.1126/SCIENCE.1243091
▶ PODCAST

1358 HUMAN EVOLUTION
Neandertal roots: Cranial and chronological evidence from Sima de los Huesos
J. L. Arsuaga et al.
▶ PERSPECTIVE P. 1338

REPORTS

1363 QUANTUM MECHANICS
An electronic quantum eraser
E. Weiss et al.
▶ PERSPECTIVE P. 1344

1366 NANOMAGNETISM
Nanoscale imaging and control of domain-wall hopping with a nitrogen-vacancy center microscope
J.-P. Tetienne et al.

1369 NANOPHOTONICS
Controlling graphene plasmons with resonant metal antennas and spatial conductivity patterns
P. Alonso-González et al.

1373 LOW-DENSITY MATERIALS
Ultralight, ultrastiff mechanical metamaterials
X. Zheng et al.

1377 NANOMATERIALS
Long-range orientation and atomic attachment of nanocrystals in 2D honeycomb superlattices
M. P. Boneschanscher et al.

1380 NANOMATERIALS
Hydroxylation of the surface of PbS nanocrystals passivated with oleic acid
D. Zherebetskyy et al.
▶ PERSPECTIVE P. 1340

1384 COMPUTATIONAL BIOLOGY
Controlling low rates of cell differentiation through noise and ultrahigh feedback
R. Ahrends et al.

1389 AGING CELL BIOLOGY
Life-span extension by a metacaspase in the yeast Saccharomyces cerevisiae
S. Malmgren Hill et al.
▶ PERSPECTIVE P. 1341

1392 HIV LATENCY
Screening for noise in gene expression identifies drug synergies
R. D. Dar et al.

1396 CANCER GENOMICS
Single-cell RNA-seq highlights intratumoral heterogeneity in primary glioblastoma
A. P. Patel et al.

1401 HIV PATHOGENESIS
HIV-1–induced AIDS in monkeys
T. Hatzioannou et al.

1405 TOXIN MECHANISM
Molecular basis for disruption of E-cadherin adhesion by botulinum neurotoxin A complex
K. Lee et al.

1410 ECOLOGICAL GENOMICS
The genomic landscape underlying phenotypic integrity in the face of gene flow in crows
J. W. Poelstra et al.
▶ PERSPECTIVE P. 1345

ON THE COVER

A greater sac-winged bat (Saccopteryx bilineata) in flight, with sonograms of a male’s territorial song below. S. bilineata is one of 20 bat species known to sing, producing calls that are as varied and structurally complex as bird song. See page 1394. Images: (bat) © Bruce D. Taubert/Bat Conservation International; (sound waves) Mirjam Knörnschild/University of Ulm

Published by AAAS