



## 1483



## NEWS

### IN BRIEF

**1474** News at a glance

### IN DEPTH

#### **1477 DEEP SPACE NETWORK GLITCHES WORRY SCIENTISTS**

NASA's aging radio antennas have faced years of budget cuts *By P. Voosen*

#### **1478 WILL NOBEL PRIZE OVERLOOK LIGO'S MASTER BUILDER?**

Barry Barish assembled the gravitational wave detectors *By A. Cho*

#### **1480 CANADA AIMS TO REWRITE ENVIRONMENTAL LAW**

Scientists urge government to tighten project reviews *By L. Evans Ogden*

#### **1481 A LIFELINE FOR GREEK SCIENCE—OR LIVING ON BORROWED TIME?**

New foundation will fund peer-reviewed grants, but crisis persists *By E. Stokstad*

#### **1482 ROSETTA ENDS 2-YEAR COMET MISSION WITH FINAL DESCENT**

Fluffy particles indicate that 67P/Churyumov-Gerasimenko was born gently from flocks of pebbles *By D. Clery*

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Genome duplications, thought to power evolutionary radiations, can't explain explosion of fishes *By E. Pennisi*

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Police are turning to big data and algorithms to stop crime before it happens. But how biased is predictive policing—and does it even work? *By M. Hvistendahl*

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► VIDEO

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Within-species diversity of amphibians and terrestrial mammals is highest in the tropics *By H. M. Pereira*

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Geophysical data help to determine the viscosity of Earth's crust and upper mantle *By B. J. P. Kaus*

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A precisely mapped brain network discriminates and remembers friends and strangers *By K. Saxena and R. G. M. Morris*

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An immune protein facilitates neuronal uptake of a Parkinson's disease-associated protein *By M. Jucker and M. Heikenwalder*

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#### **1499 BEE HAPPY**

Bumblebees show decision-making that reflects emotion-like states

*By M. T. Mendl and E. S. Paul*

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► PODCAST

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Citing shortcomings in Eddington's theory, a physicist proposes a new explanation for the existence of "now" *By L. Jardine-Wright*

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*By S. R. Januchowski-Hartley et al.*

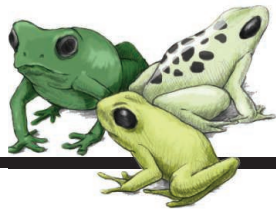
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# 1494 & 1532

Mapping genetic diversity



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Tumor epigenetics

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### REVIEW

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Multiprocess 3D printing for increasing component functionality

*E. MacDonald and R. Wicker*

REVIEW SUMMARY; FOR FULL TEXT:

[dx.doi.org/10.1126/science.aaf2093](http://dx.doi.org/10.1126/science.aaf2093)

### RESEARCH ARTICLES

#### 1513 NEURODEGENERATION

Pathological  $\alpha$ -synuclein transmission initiated by binding lymphocyte-activation gene 3 *X. Mao et al.*

RESEARCH ARTICLE SUMMARY; FOR FULL TEXT:

[dx.doi.org/10.1126/science.aah3374](http://dx.doi.org/10.1126/science.aah3374)

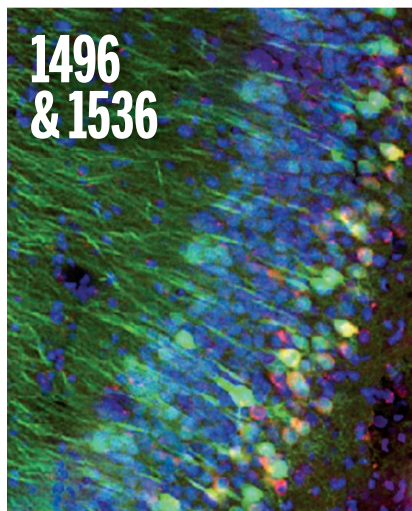
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#### 1514 CANCER

The linker histone H1.0 generates epigenetic and functional intratumor heterogeneity *C. Morales Torres et al.*

RESEARCH ARTICLE SUMMARY; FOR FULL TEXT:

[dx.doi.org/10.1126/science.aaf1644](http://dx.doi.org/10.1126/science.aaf1644)



# 1496 & 1536

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#### 1545 ENHANCER FUNCTION

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► REPORT BY C. P. FULCO ET AL.

[10.1126/science.aag2445](http://10.1126/science.aag2445)

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*Drosophila* insulin release is triggered by adipose Stunted ligand to brain Methuselah receptor *R. Delanoue et al.*

#### 1557 HIV-1 VACCINES

Priming HIV-1 broadly neutralizing antibody precursors in human Ig loci transgenic mice *D. Sok et al.*



### DEPARTMENTS

#### 1473 EDITORIAL

The boldness of philanthropists  
*By David Baltimore*

#### 1586 WORKING LIFE

Doing science while black  
*By Edward J. Smith*



### ON THE COVER

A juvenile Iberian lynx (*Lynx pardinus*). This species, native to the southern Iberian Peninsula, is the most threatened felid in the world. Many other

animals have also suffered the loss of populations and genetic diversity due to past and recent habitat destruction, introduction of disease, or competition with invasive species. See pages 1494 and 1532.

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