When pain meets politics, party lines divide

**NEWS**

**IN BRIEF**

1544 Roundup of the week’s news

**IN DEPTH**

1547 **EVIDENCE FOR COSMIC INFLATION WANES**
The biggest result in cosmology in a decade fades into dust *By A. Cho*

1548 **RED WOLVES IN THE CROSSHAIRS**
U.S. agency ponders future of innovative reintroduction as animal deaths and controversy mount *By E. Stokstad*

1549 **TESTING NEW EBOLA TESTS**
Identifying infections more quickly and easily could help slow the epidemic *By G. Vogel*

1550 **METABOLIC SHIFT MAY TRAIN IMMUNE CELLS**
BLUEPRINT project studies epigenetics of various blood cells *By E. Pennisi*

**FEATURES**

1552 **OVER THE THRESHOLD**
Ecologist Marten Scheffer became a leader in the science of tipping points by studying lakes. Now he’s making waves in many other fields *By G. Popkin*

1555 **NoVA’S SHINING MOMENT**
Despite years of delay, Fermilab’s massive new experiment has a chance to take the next big step in neutrino physics *By A. Cho*

**INSIGHTS**

**PERSPECTIVES**

1558 **WHOSE CONSERVATION?**
Changes in the perception and goals of nature conservation require a solid scientific basis *By G. M. Mace*

1560 **AUTOIMMUNITY BY HAPLOINSUFFICIENCY**
Partial deficiency in the protein CTLA4 underlies severe autoimmune disease with incomplete penetrance *By F. Rieux-Lauvart and J.-L. Casanova*

**REPORT** P. 1623

1562 **IMPLEMENTING PASTEUR’S VISION FOR RABIES ELIMINATION**
Human and veterinary health systems must be better integrated if rabies is to be controlled *By P. Lankester et al.*

1564 **WATER’S PLACE IN Au CATALYSIS**
Water plays a key role in gold-catalyzed CO oxidation *By G. M. Mullen and C. B. Mullins*

**REPORT** P. 1599

1565 **MANAGING PATTERNS AND PROPORTIONS OVER TIME**
Tissue patterning is specified relative to growth through differences between cell proliferation and the differentiation rates *By O. Pourquie*

**RESEARCH ARTICLE** P. 1577

1566 **PEROVSKITES TAKE LEAD IN SOLAR HYDROGEN RACE**
Earth-abundant materials show promise for solar hydrogen production *By T. Hamann*

**REPORT** P. 1593

**LETTERS**

1569 **PAIN**
*By K. Wailoo, reviewed by W. Anderson*

1571 **BRAZIL’S NEW LAWS BUG COLLECTORS**
*By D. B. Ribeiro and A. V. L. Freitas*

1571 **PARENTING: SECTION DESERVES A SCOLDING**
*By J. Mercer*

1571 **PARENTING: ROOTS OF THE SWEET TOOTH**
*By A. K. Portella and P. P. Silveira*

**ERRATA**

1572

**DEPARTMENTS**

1543 **EDITORIAL**
The drought you can’t see *By Marcia McNutt*

**REPORT** P. 1587

1650 **WORKING LIFE**
The borders I crossed *By Rodica Stan*

---

Science Staff ............................................1542
AAAS News & Notes.................................1573
Gordon Research Conferences.....................1628
New Products.............................................1638
Science Careers.........................................1639

Published by AAAS
**RESEARCH**

**IN BRIEF**

1574 From Science and other journals

**RESEARCH ARTICLES**

1577 NEURAL DEVELOPMENT
Coordination of progenitor specification and growth in mouse and chick spinal cord A. Kicheva et al.

1578 IMMUNOGENETICS
Epigenetic programming of monocyte-to-macrophage differentiation and trained innate immunity S. Saeed et al.

1579 NEURAL DEVELOPMENT
mTOR- and HIF-1α-mediated aerobic glycolysis as metabolic basis for trained immunity S.-C. Cheng et al.

1580 TRANSCRIPTIONAL GENOMICS
Transcriptional diversity during lineage commitment of human blood progenitors L. Chen et al.

1587 REMOTE HYDROLOGY
Ongoing drought-induced uplift in the western United States A. A. Borsa et al.

1590 EARLY SOLAR SYSTEM
The ancient heritage of water ice in the solar system L. I. Creeves et al.

1593 WATER SPLITTING
Water photolysis at 12.3% efficiency via perovskite photovoltaics and Earth-abundant catalysts J. Luo et al.

1596 ATMOSPHERIC CHEMISTRY
Infrared-driven unimolecular reaction of CH₂CHO OH intermediates to OH radical products F. Liu et al.

1599 CATALYSIS
The critical role of water at the gold-titania interface in catalytic CO oxidation J. Sarode et al.

1602 PLANT ECOLOGY
Environmental filtering explains variation in plant diversity along resource gradients E. Laliberté et al.

1605 PLANT DEVELOPMENT
Direct roles of SPEECHLESS in the specification of stomatal self-renewing cells O. S. Lau et al.

1609 PALEOLITHIC TOOLS
Early Levallois technology and the Lower to Middle Paleolithic transition in the Southern Caucasus D. S. Adler et al.

1613 PALEONTOLOGY
Semiaquatic adaptations in a giant predatory dinosaur N. Ibrahim et al.

1616 NEUROSCIENCE
A critical time window for dopamine actions on the structural plasticity of dendritic spines S. Yasishita et al.

1620 NITROGEN FIXATION
Ligand binding to the FeMo cofactor: Structures of CO-bound and reactivated nitrogenase T. Spatzel et al.

1623 IMMUNODEFICIENCY
Immune dysregulation in human subjects with heterozygous germline mutations in CTLA4 H. S. Kuehn et al.

**IN BRIEF**

1550 & 1578–1580

**REPORTS**

1581 JOVIAN ATMOSPHERE
Evidence for global electron transportation into the jovian inner magnetosphere K. Yoshioka et al.

1584 INTERSTELLAR CHEMISTRY
Detection of a branched alkyl molecule in the interstellar medium: iso-propyl cyanide A. Belloche et al.

1587 REMOTE HYDROLOGY
Ongoing drought-induced uplift in the western United States A. A. Borsa et al.

1590 EARLY SOLAR SYSTEM
The ancient heritage of water ice in the solar system L. I. Creeves et al.

1593 WATER SPLITTING
Water photolysis at 12.3% efficiency via perovskite photovoltaics and Earth-abundant catalysts J. Luo et al.

1596 ATMOSPHERIC CHEMISTRY
Infrared-driven unimolecular reaction of CH₂CHO OH intermediates to OH radical products F. Liu et al.

1599 CATALYSIS
The critical role of water at the gold-titania interface in catalytic CO oxidation J. Sarode et al.

1602 PLANT ECOLOGY
Environmental filtering explains variation in plant diversity along resource gradients E. Laliberté et al.

1605 PLANT DEVELOPMENT
Direct roles of SPEECHLESS in the specification of stomatal self-renewing cells O. S. Lau et al.

1609 PALEOLITHIC TOOLS
Early Levallois technology and the Lower to Middle Paleolithic transition in the Southern Caucasus D. S. Adler et al.

1613 PALEONTOLOGY
Semiaquatic adaptations in a giant predatory dinosaur N. Ibrahim et al.

1616 NEUROSCIENCE
A critical time window for dopamine actions on the structural plasticity of dendritic spines S. Yasishita et al.

1620 NITROGEN FIXATION
Ligand binding to the FeMo cofactor: Structures of CO-bound and reactivated nitrogenase T. Spatzel et al.

1623 IMMUNODEFICIENCY
Immune dysregulation in human subjects with heterozygous germline mutations in CTLA4 H. S. Kuehn et al.