EDITORIAL
949  Festival Lessons
Leszek Borysiewicz and Nicola Buckley

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

NEWS & ANALYSIS
956  Science Misused to Justify Ugandan Antigay Law
957  New Review Slams Fusion Project’s Management
958  Twitter Offers Entire Data Pool, but Some Wary of Diving In
959  E.U. Privacy Protection Bill Would Hamper Research, Scientists Warn
960  New Look at Ancient Mineral Could Scrap a Test for Early Oxygen

NEWS FOCUS
961  Welcome to Beringia   >> Perspective p. 979
964  Can Down Syndrome Be Treated?   >> Science Podcast

LETTERS
968  Raw Data: Access to Inaccuracy
A. C. J. W. Janssens

968  Raw Data: Research and Health Care Goals Differ
W. J. Dondorp et al.
Response
J. E. Lunshof et al.

969  CORRECTIONS AND CLARIFICATIONS

BOOKS ET AL.
970  The New Science of Cities
M. Batty, reviewed by M. Szell
971  Pests in the City
D. D. Biehler, reviewed by F. R. Davis

POLICY FORUM
972  A Better Route to Tech Standards
J. Lerner and J. Tirole

PERSPECTIVES
974  Meet the New Boss, Same as the Old Boss
M. Kaspari and M. D. Weiser
>> Report p. 1014
975  The Surface Mobility of Glasses
F. Chen et al.
>> Report p. 994
976  The Tropical Pacific Ocean—Back in the Driver’s Seat?
A. Clement and P. DiNezio
978  The Neural Code That Makes Us Human
Y. Grodzinsky and I. Nelken
>> Report p. 1006
979  Out of Beringia?
J. F. Hoffecker et al.
>> News story p. 961

981  How Shape Affects Microtubule and Nanoparticle Assembly
M. J. Stevens
982  Signaling Shifts in Allergy Responses
M. Daëron
>> Report p. 1021

REVIEW
985  Solar Synthesis: Prospects in Visible Light Photocatalysis
D. M. Schultz and T. P. Yoon
Review Summary; for full text:
http://dx.doi.org/10.1126/science.1239176

CORRECTIONS AND CLARIFICATIONS

ON THE WEB THIS WEEK
>> Science Podcast
This week’s show features a segment on recent research into treatments for Down syndrome and a roundup of shorts from our daily news site.

>> Find More Online
Check out the latest in a series of Perspectives on Challenges in Climate Science at www.sciencemag.org/extra/climate.

COVER
A portrait of a tawny crazy ant worker (Nylanderia fulva). Tawny crazy ants, native to central South America, are invading the southeastern United States and, in some places, displacing the current dominant South American ant invader, red imported fire ants (Solenopsis invicta). A notable ability to detoxify the venom of imported fire ants apparently underlies the success of tawny crazy ants. See pages 974 and 1014.

Photo: ©Alex Wild/alexanderwild.com

DEPARTMENTS
947  This Week in Science
950  Editors’ Choice
952  Science Staff
984  AAAS News & Notes
1029  New Products
1030  Science Careers
**RESEARCH ARTICLES**

986 ESCRT Machinery Is Required for Plasma Membrane Repair  
A. J. Jimenez et al.  
ESCsRT proteins repair small wounds in the plasma membrane by shearing off damaged portions.  
*Research Article Summary; for full text: http://dx.doi.org/10.1126/science.1247136*

987 Lost in Transition: Start-Up of Glycolysis Yields Subpopulations of Nongrowing Cells  
J. H. van Heesden et al.  
One source of nongenetic variation in yeast can be traced to distinct steady-state levels of glycolysis.  
*Research Article Summary; for full text: http://dx.doi.org/10.1126/science.1245114*

988 Global Anisotropies in TeV Cosmic Rays Related to the Sun’s Local Galactic Environment from IBEX  
N. A. Schwadron et al.  
Local interstellar conditions play a role in ordering very-high-energy cosmic rays in the Sun’s immediate environment.

989 Nanoporous BiVO$_4$ Photoanodes with Dual-Layer Oxygen Evolution Catalysts for Solar Water Splitting  
T. W. Kim and K.-S. Choi  
A high-surface-area morphology of bismuth vanadate enhances the proportion of photogenerated holes that can oxidize water.

990 A Direct Quantitative Measure of Surface Mobility in a Glassy Polymer  
Y. Chai et al.  
A step geometry is used to probe the behavior of a glassy polymer above and below its glass transition temperature.  
>> Perspective p. 975

991 Rapid Thinning of Pine Island Glacier in the Early Holocene  
J. S. Johnson et al.  
Pine Island Glacier in Antarctica thinned rapidly, as it is doing now, at least once before in the past 8000 years.

992 Promoter-Bound Trinucleotide Repeat mRNA Drives Epigenetic Silencing in Fragile X Syndrome  
D. Colak et al.  
An abnormal activation of gene silencing underlies fragile X syndrome.

993 Photic Feature Encoding in Human Superior Temporal Gyrus  
N. Mesgarani et al.  
The human auditory cortex encodes what speech sounds like.  
>> Perspective p. 978

994 Detection of a Recurrent DNAJB1-PRKACA Chimeric Transcript in Fibrolamellar Hepatocellular Carcinoma  
J. N. Honeyman et al.  
A rare form of liver cancer affecting young adults expresses a chimeric kinase that may contribute to pathogenesis.

995 Chemical Warfare Among Invaders: A Detoxification Interaction Facilitates an Ant Invasion  
E. G. LeBrun et al.  
After fire ants invade, they can be invaded in turn by tammy crazy ants.  
>> Perspective p. 974

996 Resurrecting Surviving Neandertal Lineages from Modern Human Genomes  
B. Vernot and J. M. Akey  
Ancient Neandertal sequences within extant humans reveal that positive and purifying selection has occurred.

997 Molecular Editing of Cellular Responses by the High-Affinity Receptor for IgE  
R. Suzuki et al.  
One receptor uses different signals to achieve different outcomes.  
>> Perspective p. 982

998 Cell Surface ABP1-TMK Auxin-Sensing Complex Activates ROP GTPase Signaling  
T. Xu et al.  
An alternate signaling route for the plant hormone auxin goes directly inside from the cell surface.