1184  Inducing a Magnetic Monopole with Topological Surface States
X.-L. Qi et al.
A magnetic monopole is theoretically predicted to be induced at the surface of a topological insulator.

1187  Global Cooling During the Eocene-Oligocene Climate Transition
Z. Liu et al.
When a permanent Antarctic ice sheet formed about 34 million years ago, high-latitude surface oceans cooled by about 5°C.

1190  Seeing the Fermi Surface in Real Space by Nanoscale Electron Focusing
A. Weismann et al.
Scanning tunneling microscopy can reveal the bulk Fermi surface of copper when buried cobalt atoms are present.

1193  Conductance of a Single Conjugated Polymer as a Continuous Function of Its Length
L. Lafferentz et al.
The conductance of a polyfluorene oligomer is measured as it is pulled off a gold surface.

1197  Early Hominin Foot Morphology Based on 1.5-Million-Year-Old Footprints from Ileret, Kenya
M. R. Bennett et al.
Footprints found near Lake Turkana show that human foot shape and gait had been achieved 1.5 million years ago.

1201  RNA Polymerase IV Functions in Paramutation in Zea mays
K. F. Erhard Jr. et al.
In maize, a derivative RNA polymerase is responsible for passing on epigenetic changes to the next generation.

1205  Mutations in the FUS/TLS Gene on Chromosome 16 Cause Familial Amyotrophic Lateral Sclerosis
T. J. Kwiatkowski Jr. et al.

1208  Mutations in FUS, an RNA Processing Protein, Cause Familial Amyotrophic Lateral Sclerosis Type 6
C. Vance et al.
Mutations in an RNA processing protein, the second implicated, suggest that a common mechanism promotes Lou Gehrig’s disease.

1211  Synchronous Hyperactivity and Intercellular Calcium Waves in Astrocytes in Alzheimer Mice
K. V. Kuchibhotla et al.
In a mouse model of Alzheimer’s disease, astrocytes respond globally to plague formation.

1215  Meropenem-Clavulanate Is Effective Against Extensively Drug-Resistant Mycobacterium tuberculosis
J. E. Hugonnet et al.
Together, two FDA-approved drugs inhibit the growth of 13 antibiotic-resistant strains of the tuberculosis pathogen.

1218  Analysis of Drosophila Segmentation Network Identifies a JNK Pathway Factor Overexpressed in Kidney Cancer
J. Liu et al.
A developmental marker in fruit flies also acts as a marker of renal cell cancer in humans.

1222  In Bad Taste: Evidence for the Oral Origins of Moral Disgust
H. A. Chapman et al.
Responses to bad-tasting foods and morally repugnant actions are processed in overlapping regions of the brain.

1226  Blue or Red? Exploring the Effect of Color on Cognitive Task Performances
R. Mehta and R. (J.) Zhu
Blue favors creativity in humans, whereas red improves attention to detail.

1229  Self-Sustained Replication of an RNA Enzyme
T. A. Lincoln and G. F. Joyce
Two ribozymes synthesize each other from oligonucleotide substrates to give a self-replicating system.

1232  Antagonistic Actions of Msx1 and Osr2 Pattern Mammalian Teeth into a Single Row
Z. Zhang et al.
A pair of transcription factors controls sites of tooth formation in mice by regulating the distribution of signals.

CONTENTS continued >>
Greatly Expanded Tropical Warm Pool and Weakened Hadley Circulation in the Early Pliocene C. M. Brierley et al.

The warm tropics of the Early Pliocene, about 4 million years ago, extended much farther toward the poles than they do today. 10.1126/science.1167625

RNA Pol II Accumulates at Promoters of Growth Genes During Developmental Arrest L. R. Baugh et al.

Growth and development genes, poised for expression during developmental arrest in nematodes, respond rapidly to feeding. 10.1126/science.1169628

A Transposon-Based Genetic Screen in Mice Identifies Genes Altered in Colorectal Cancer T. K. Starr et al.

A functional screen in mice uncovers genes that are likely to drive the growth of gut-specific tumors. 10.1126/science.1163040

Antibody Recognition of a Highly Conserved Influenza Virus Epitope D. C. Ekiert et al.

A broadly neutralizing antibody binds the hemagglutinin stalk of pathogenic influenza viruses to block membrane fusion. 10.1126/science.1171491

Comment on “Multipartite Entanglement Among Single Spins in Diamond” B. W. Lovett and S. C. Benjamin

full text at www.sciencemag.org/cgi/content/full/323/5918/1169c

Response to Comment on “Multipartite Entanglement Among Single Spins in Diamond” P. Neumann et al.

full text at www.sciencemag.org/cgi/content/full/323/5918/1169d

Comment on “Multipartite Entanglement Among Single Spins in Diamond” B. W. Lovett and S. C. Benjamin

full text at www.sciencemag.org/cgi/content/full/323/5918/1169c

Response to Comment on “Multipartite Entanglement Among Single Spins in Diamond” P. Neumann et al.

full text at www.sciencemag.org/cgi/content/full/323/5918/1169d

Highlights From Our Daily News Coverage

www.sciencemag.org

Comment on “Multipartite Entanglement Among Single Spins in Diamond” B. W. Lovett and S. C. Benjamin

full text at www.sciencemag.org/cgi/content/full/323/5918/1169c

Response to Comment on “Multipartite Entanglement Among Single Spins in Diamond” P. Neumann et al.

full text at www.sciencemag.org/cgi/content/full/323/5918/1169d

Free Weekly Show

Download the 27 February Science Podcast to hear about predicting election outcomes, drug-resistant influenza, your letters to Science, and more.

www.sciencemag.org/multimedia/podcast

Free Career Resources for Scientists

www.sciencecareers.org/career_magazine

Two features: Two Young, African-American Women in Science J. Austin

Our sample of African-American women reveals brilliance, scientific ambition, and progress against discrimination.

When Ironies Make Perfect Sense A. Sasso

Gina Wingood, a black Catholic girl raised in a white suburb, found love and her calling in San Francisco’s ghettos.

The Bigger Questions S. Gaidos

Chemical engineer Kristala Jones Prather’s career has taken her from academia to industry and back again.

A Double Bind—Minority Women in Science in Europe E. Pain

Minority women in European science confront an issue that remains taboo.

www.sciencecareers.org/career_magazine

Free Weekly Show

www.sciencemag.org/multimedia/podcast

Free Career Resources for Scientists

www.sciencecareers.org/career_magazine

Two features: Two Young, African-American Women in Science J. Austin

Our sample of African-American women reveals brilliance, scientific ambition, and progress against discrimination.

When Ironies Make Perfect Sense A. Sasso

Gina Wingood, a black Catholic girl raised in a white suburb, found love and her calling in San Francisco’s ghettos.

The Bigger Questions S. Gaidos

Chemical engineer Kristala Jones Prather’s career has taken her from academia to industry and back again.

A Double Bind—Minority Women in Science in Europe E. Pain

Minority women in European science confront an issue that remains taboo.