SPECIAL SECTION
Antibodies

INTRODUCTION
1191  The Future Is Now

REVIEWS
1192  Antibody Therapeutics in Cancer  M. X. Siklowski and I. Mellman
1199  Antibodies in HIV-1 Vaccine Development and Therapy  F. Klein et al.
>> Science Podcast
1205  Diversity Among Memory B Cells: Origin, Consequences, and Utility  D. Tarlinton and K. Good-Jacobson
>> Editorial p. 1151; News stories pp. 1164 and 1168

EDITORIAL
1151  Translating Antibody Insights  Julie Louise Gerberding
>> Antibodies section p. 1191

NEWS OF THE WEEK
1156  A roundup of the week’s top stories

NEWS & ANALYSIS
1158  It’s Official—Voyager Has Left the Solar System  >> Science Express Report by D. A. Garnett et al.; Science Podcast
1160  Researchers Wary as DOE Bids to Build Sixth U.S. Climate Model
1161  Novel Craft Sets Out to Probe the Mysteries of Moon dust
1163  Researchers to Explore Promise, Risks of Sequencing Newborns’ DNA

NEWS FOCUS
1164  | Alarm Over Autism Test
1168  | Bound for Glory
>> Antibodies section p. 1191

LETTERS
1173  Turkey’s Biodiversity Funding on the Rise  A. Waldrong et al.
Waiving Concerns About Conflicts of Interest  R. Lutter
Response  S. F. Wood and J. Mador

CORRECTIONS AND CLARIFICATIONS
1175  TECHNICAL COMMENT ABSTRACTS

BOOKS ET AL.
1176  The Body Economic  D. Stuckler and S. Basu, reviewed by J. A. Tapia Granados
1177  George Catlin  S. Pratt and J. Carpenter Troccoli, curators

ON THE WEB THIS WEEK
>> Science Podcast
Listen to stories on DNA and disasters, new immunological weapons against HIV, Voyager’s latest exit, and more.
>> Find More Online
Check out Science Express, our podcast, videos, daily news, our research journals, and Science Careers at www.sciencemag.org.
REPORTS

1213 From Cosmology to Cold Atoms: Observation of Sakharov Oscillations in a Quenched Atomic Superfluid C.-L. Hung et al. Abrupt interaction changes in an ultracold gas reveal oscillations analogous to peaks in the cosmic microwave background. >> Perspective p. 1188

1215 An Atomic Clock with $10^{-18}$ Instability N. Hinkley et al. An ytterbium-based optical clock exhibits a precision of nearly one part per quintillion. >> Perspective p. 1185

1219 Reversibly Assembled Cellular Composite Materials K. C. Cheung and N. Gershenfeld Reversible assembly of mass-produced composite-material parts created a stiff, ultralight structure. >> Perspective p. 1181

1222 Topotactic Interconversion of Nanoparticle Superlattices R. J. Macfarlane et al. DNA-coated nanoparticles can reversibly incorporate a third nanoparticle.

1225 Organotextile Catalysis J.-W. Lee et al. Metal-free molecular catalysts can be tethered to nylon to render them recoverable and recyclable.

1229 Slow Earthquakes, Preseismic Velocity Changes, and the Origin of Slow Frictional Stick-Slip B. M. Kaproth and C. Marone Slip-stick experiments reveal the evolution of frictional behavior during slow earthquakes.

1233 HONO Emissions from Soil Bacteria as a Major Source of Atmospheric Reactive Nitrogen R. Oswald et al. Nitrous acid emissions from soil are comparable to those of nitric oxide in arid and arable regions.

1236 Channelized Ice Melting in the Ocean Boundary Layer Beneath Pine Island Glacier, Antarctica T. P. Stanton et al. A complex pattern of channelized melting exists on the underside of the ice shelf of Pine Island Glacier in Antarctica.

1239 Marine Taxa Track Local Climate Velocities M. L. Pinsky et al. Variation in species’ responses to climate change can be explained by differences in the local rates of climate change.

1243 The Molecular Trigger for High-Speed Wing Beats in a Bee H. Iwamoto and N. Yagi High-speed x-ray imaging of bee flight muscle reveals that stretch-activated myosin deformation drives high-frequency wing beats.

1246 Noncanonical Inflammasome Activation by Intracellular LPS Independent of TLR4 N. Kayagaki et al.

1250 Cytoplasmic LPS Activates Caspase-11: Implications in TLR4-Independent Endotoxic Shock J. A. Hagar et al. Cytoplasmic lipopolysaccharide from Gram-negative bacteria can activate the innate immune system directly. >> Perspective p. 1184

1254 Interacting Gears Synchronize Propulsive Leg Movements in a Jumping Insect M. Burrows and G. Sutton Functional gears are involved in the ballistic jumping movements of the flightless planthopper insect, Issus.
Science 341 (6151), 1149-1257.

http://science.sciencemag.org/content/341/6151

http://www.sciencemag.org/help/reprints-and-permissions