EDITORIAL
1474 Biodiversity Policy Changes
Harold Mooney and Georgina Mace
>> Policy Forums pp. 1502 and 1503

NEWS OF THE WEEK
1482 China First to Vaccinate Against Novel H1N1 Virus
1483 Laskers Honor Five Scientists and a Mayor
1484 Researcher, Two Universities Sued Over Validity of Prostate Cancer Test
1485 DuPont Scientist Accused of Stealing Company’s Trade Secrets
1486 From the Science Policy Blog
1486 Paper Retracted Following Genome Data Breach
1486 PNAS Nixes Special Privileges for (Most) Papers
1488 Revisions to AP Courses Expected to Have Domino Effect
1489 A Boost for Vaccine Development
1489 From Science’s Online Daily News Site

NEWS FOCUS
1490 A Cure for Euthanasia?
>> Science Podcast
1494 Scrambling to Read the Meaning of the Sky’s Most Ancient Flare

LETTERS
1496 Tenure: Where to Draw the Line
L. K. Su
Tenure: Expiration Time
K. R. Gordon
Tenure: Incentivize Faculty
S. C. Moosavi
Response
D. Clawson
Increase Grants, Too
M. J. Castellano and K. E. Mueller
Stable Funding Is Key
R. J. Butera

TECHNICAL COMMENT ABSTRACTS

BOOKS ET AL.
1500 Modern Nature
L. K. Nyhart, reviewed by M. Glaubrecht

1501 Birdscapes
J. Mynott, reviewed by D. Bennu

POLICY FORUM
1502 Biodiversity Conservation and the Millennium Development Goals
J. D. Sachs et al.

1503 Tracking Progress Toward the 2010 Biodiversity Target and Beyond
M. Walpole et al.
>> Editorial p. 1474

PERSPECTIVES
1505 Expanding Functionality Within the Looking-Glass Universe
S. R. Blanke
>> Report p. 1552

1506 Seeing the Big Picture on Microbe Distribution
D. J. Patterson
>> Reports pp. 1539 and 1541

1507 Itinerant Ferromagnetism with Ultracold Atoms
W. Zwerger
>> Report p. 1521

1509 How River Beds Move
P. Frey and M. Church

1510 The Super of Superradiance
M. O. Scully and A. A. Svidzinsky

CONTENTS continued >>
BREVIA

1512 Macroevolution of Complex Retroviruses
A. Katzourakis et al.
A sloth foamy virus sequence indicates that mammals have been infected since the Cretaceous.

REPORTS

1513 Gold Helix Photonic Metamaterial as Broadband Circular Polarizer
J. K. Gansel et al.
A three-dimensional array of gold nano-helices can polarize light over a wide range of wavelengths.

1515 Control of Spin Precession in a Spin-Injected Field Effect Transistor
H. C. Koo et al.
A field-effect transistor in which the spin current is controlled by a gate voltage is demonstrated.

1518 Memory Metamaterials
T. Driscoll et al.
A tunable metamaterial is demonstrated that can remember its switched state.

1521 Itinerant Ferromagnetism in a Fermi Gas of Ultracold Atoms
G.-B. Jo et al.
Ferromagnetic ordering forms spontaneously in an ensemble of ultracold fermionic atoms. >> Perspective p. 1507

1525 An Anomalous Basaltic Meteorite from the Innermost Main Belt
P. A. Bland et al.
This meteorite’s composition and orbital properties are such that it cannot be traced to the parent asteroid.

1527 Evidence for Obliquity Forcing of Glacial Termination II
R. N. Drysdale et al.
Marine records suggest that the early onset of the penultimate deglaciation was due to changes in Earth’s obliquity.

1531 Cellular Basis of Itch Sensation
Y.-G. Sun et al.
Itch, but not pain sensation, is abolished by selective ablation of a small subpopulation of spinal neurons.

1534 Attitudes and Action: Public Opinion and the Occurrence of International Terrorism
A. B. Krueger and J. Malečková
Public opinion toward a country is associated with the occurrence of terrorism against that country. >> Science Podcast

1536 Highly Variable Spread Rates in Replicated Biological Invasions: Fundamental Limits to Predictability
B. A. Melbourne and A. Hastings
Replicated invasions in laboratory microcosms demonstrate inherent unpredictability due to randomness in biological processes.

1539 Controls on Diatom Biogeography in the Ocean
P. Cermeño and P. G. Falkowski
Fossil records show that the dispersal of diatoms from ocean plankton has not been constrained by geographical barriers.

1541 A Constant Flux of Diverse Thermophilic Bacteria into the Cold Arctic Seabed
C. Hubert et al.
Spore-forming bacteria adapted to the hot subsurface biosphere are continually deposited in polar marine sediments. >> Perspective p. 1506

1544 Three-Dimensional Structural View of the Central Metabolic Network of Thermotoga maritima
Y. Zhang et al.
Protein structure and biochemical data generate a three-dimensional view of the metabolic network of a bacterial cell.

1549 Details of Insect Wing Design and Deformation Enhance Aerodynamic Function and Flight Efficiency
J. Young et al.
Measurements of locust wing kinematics validate a fluid dynamics model of the aerodynamic effects of wing deformation. >> Science Podcast

1552 d-Amino Acids Govern Stationary Phase Cell Wall Remodeling in Bacteria
H. Lam et al.
Bacteria produce d-amino acids to regulate their cell wall composition, structure, amount, and strength. >> Perspective p. 1505

1555 Glucose Deprivation Contributes to the Development of KRAS Pathway Mutations in Tumor Cells
J. Yun et al.
Glucose deprivation can drive the acquisition of certain oncogenic mutations in human cancer cells.
Three-Color Entanglement
A. S. Coelho et al.
Three bright light beams of different colors can be entangled.
10.1126/science.1178683

Control of Iron Homeostasis by an Iron-Regulated Ubiquitin Ligase
A. A. Vashishth et al.
10.1126/science.1176333

An E3 Ligase Possessing an Iron-Responsive Hemerythrin Domain Is a Regulator of Iron Homeostasis
A. A. Salahudeen et al.
A vertebrate hemerythrin domain in an E3 ubiquitin ligase complex senses and regulates cellular iron levels.
10.1126/science.1176326

TECHNICAL COMMENTS
Comment on “The Dynamic Control of Kiss-And-Run and Vesicular Reuse Probed with Single Nanoparticles”
B. Granstedt et al.
full text at www.sciencemag.org/cgi/content/full/325/5947/1499-b
Response to Comment on “The Dynamic Control of Kiss-And-Run and Vesicular Reuse Probed with Single Nanoparticles”
Q. Zhang et al.
full text at www.sciencemag.org/cgi/content/full/325/5947/1499-c

SCIENCEONLINE

B. Diaz et al.
Manipulation of the interaction of a morphogen with the extracellular matrix changes its biological activities by altering its diffusion.
RESEARCH ARTICLE: Tks5-Dependent, Nox-Mediated Generation of Reactive Oxygen Species Is Necessary for Invadopodia Formation
B. Diaz et al.
RESEARCH ARTICLE: Novel p47phox-Related Organizers Regulate Localized NADPH Oxidase 1 (Nox1) Activity
D. Gianni et al.
PERSPECTIVE: Regulation of Cancer Invasion by Reactive Oxygen Species and Tks Family Scaffold Proteins
A. M. Weaver
Tks proteins organize NADPH oxidase activity and localized production of reactive oxygen species in invasive cells.
PERSPECTIVE: Endocannabinoids Can Open the Pain Gate
M. J. Christie and C. Mallet
Endocannabinoids generated in the spinal cord can enhance pain responses instead of relieving pain.
NETWATCH: PhosphoPep
Access phosphoproteomic data from yeast, worm, fly, and human; in Protein Databases.
NETWATCH: ProtParam
Calculate commonly used physical and chemical parameters for a protein of interest; in Technical Information.

SCIENCE CAREERS
www.sciencemag.org/career_magazine
Free Career Resources for Scientists

A Physicist Finds a Rewarding Career in Charity
V. Raper
Physicist Lucy Heady now pursues a career solving social problems.

Tooling Up: The Regulatory Affairs Career Track
D. Jensen
Regulatory affairs specialists play a key role in getting drugs to market.

Pushing the Regulatory Agenda on Adult Stem Cells
E. Pain
Maria Pascual has influenced European policy on adult stem cell drug development.

1469