EDITORIAL
737  Designing Scientific Meetings
   Bruce Alberts

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

NEWS & ANALYSIS
745  European Budget Fight Moves to Parliament
746  NSF Opening Adds to Concerns About Obama’s Second-Term Science Team
747  Plagiarism Hunters Take Down Research Minister
748  Cash-Strapped NASA Gets Many Ideas for ‘Free’ Telescopes
749  Faulty DNA Repair Linked to Ovarian Aging in Mice and Humans

NEWS FOCUS
750  The Many Ways of Making Academic Research Pay Off
754  Opsins: Not Just for Eyes
   >> Science Podcast

LETTERS
756  AAAS Position on GM Foods Could Backfire
   S. H. Priest et al.
   In Defense of Physician-Investor Collaboration
   J. Chakma
   Give Shark Sanctuaries a Chance
   D. D. Chapman et al.
757  CORRECTIONS AND CLARIFICATIONS
757  TECHNICAL COMMENT ABSTRACTS

BOOKS ET AL.
758  The Signal and the Noise
   N. Silver, reviewed by S. Wang and B. C. Campbell
759  How to Create a Mind
   R. Kurzweil, reviewed by C. Koch
760  Browsings

POLICY FORUM
761  Beyond Arms-Control Monitoring
   R. Jeanloz et al.

PERSPECTIVES
763  Sensing the Dark Side of DNA
   L. A. J. O’Neill
   >> Research Article p. 786; Report p. 826
764  The Animal Tree of Life
   M. J. Telford
766  Fine Tuning Gene Regulation
   D. M. Crothers
   >> Report p. 816
767  Beating Classical Computing Without a Quantum Computer
   J. D. Franson
   >> Reports pp. 791, 794, and 798
768  New Tool for Genome Surgery
   J. van der Oost
   >> Reports pp. 819 and 823
770  Demonstrating Uncertainty
   G. J. Milburn
   >> Report p. 801
771  A Unique Piece of Mars
   M. Humayun
   >> Research Article p. 780

REVIEW
773  Structural Biological Materials: Critical Mechanics-Materials Connections
   M. A. Meyers et al.

CONTENTS continued >>
RESEARCH ARTICLES

807 Detection of the Characteristic Pion-Decay Signature in Supernova Remnants
M. Ackermann et al.
The gamma-ray spectra of two supernova remnants in our Galaxy show the signature of proton acceleration.

811 Crystalline Inorganic Frameworks with 56-Ring, 64-Ring, and 72-Ring Channels
H.-Y. Lin et al.
Ballium zirconophosphate materials with nanometer-scale channels were made using amine templates bearing long alkyl chains.

814 Dilute Concentrations of a Psychiatric Drug Alter Behavior of Fish from Natural Populations
T. Brodin et al.
Anxiolytic drugs, at concentrations found in natural waterways, alter the behavior and foraging rate of wild European perch.

816 Probing Allostery Through DNA
S. Kim et al.
Proteins bound to the same, but not overlapping, stretch of DNA modulate each other’s DNA binding affinity.

819 Multiplex Genome Engineering Using CRISPR/Cas Systems
L. Cong et al.
A bacterial genome defense system is adapted to function as a genome-editing tool in mammalian cells.

823 RNA-Guided Human Genome Engineering via Cas9
P. Mali et al.
A viral genome defense system is adapted to function as a genome-editing tool in mammalian cells.

826 Cyclic GMP-AMP Is an Endogenous Second Messenger in Innate Immune Signaling by Cytosolic DNA
J. Wu et al.
Cyclic guanosine monophosphate–adenosine monophosphate acts as a second messenger that turns on antiviral immunity in response to cytoplasmic DNA.

830 Prediction Error Governs Pharmacologically Induced Amnesia for Learned Fear
D. Sevenster et al.
Human fear memory labilization can be assessed noninvasively, independent of whether reconsolidation occurs.

REPORTS

780 Unique Meteorite from Early Amazonian Mars: Water-Rich Basaltic Breccia Northwest Africa 7034
C. B. Agee et al.
Detailed analysis of a meteorite shows that it matches the surface of Mars yet is unlike any other martian meteorite.

786 Cyclic GMP-AMP Synthase Is a Cytosolic DNA Sensor That Activates the Type I Interferon Pathway
L. Sun et al.
Cyclic guanosine monophosphate–adenosine monophosphate synthase is identified and shown to be activated by DNA, but not RNA, in mammalian cells.

794 Photonic Boson Sampling in a Tunable Circuit
M. A. Broome et al.
Optical circuits are used to demonstrate a quantum-enhanced calculation.

798 Boson Sampling on a Photonic Chip
J. B. Spring et al.
Optical circuits are used to demonstrate a quantum-enhanced calculation.

801 Observation of Radiation Pressure Shot Noise on a Macroscopic Object
T. P. Purdy et al.
A light, visible-to-the-naked-eye membrane is observed to fluctuate in step with the photons used to measure its position.

804 Similarity of Scattering Rates in Metals Showing T-Linear Resistivity
J. A. Bruin et al.
Transport measurements show little variation across metals with resistivity that scales linearly with temperature.
339 (6121)

Science 339 (6121), 736-861.