EDITORIAL
561 U.S.-China S&T at 30
Norman P. Neureiter and Tom C. Wang

NEWS OF THE WEEK
568 Celebration and Concern Over U.S. Trial of Embryonic Stem Cells
569 Early Start for Human Art? Ochre May Revise Timeline
570 European Science Not As Intense As Hoped
570 Iraq Museum May Reopen Amid Controversy
571 A Stimulus for Science
572 Report Calls for Fresh Look at What Happens Outside School
572 Fingerprints Enhance the Sense of Touch
573 How Sorghum Withstands Heat and Drought

NEWS FOCUS
574 Seeds of Discontent
576 DOD Funds New Views on Conflict With Its First Minerva Grants
578 Beset by Delays, U.S. Astronomers Ponder a Better 'To Do' List
580 HPV Casts a Wider Shadow

LETTERS
582 Systems Politics and Political Systems
H. Ashrafian
Scientists Not Immune to Partisanship
D. H. Guston et al.
Law and Science Not Mutually Exclusive
D. D. deRosier
Credit for Coauthors
N. T. Hagen
Response
C. H. Sekercioglu

CORRECTIONS AND CLARIFICATIONS
583

TECHNICAL COMMENT ABSTRACTS
583

BOOKS ET AL.
584 Science on the Air
M. C. LaFollette, reviewed by A. J. Wolfe
585 Human
M. S. Gazzaniga, reviewed by R. Adolphs

EDUCATION FORUM
586 Learning and Scientific Reasoning
L. Bao et al.

PERSPECTIVES
588 The Force Is with Us
M. A. Schwartz
589 Transforming Graphene
A. Savchenko
590 An Abnormal Normal State
G. S. Boebinger
592 Pores in Place
F. D. Sack and J.-G. Chen
593 Unfolding the Secrets of Calmodulin
R. B. Best and G. Hummer
594 The Key to Pandora’s Box
P. A. Stevenson

REVIEW
602 Sudden Death of Entanglement
T. Yu and J. H. Eberly

BREVIA
602 Facile Synthesis of AsP$_3$
B. M. Cossairt et al.
The question of the stability of solid AsP$_3$, a simple inorganic molecule, has been settled by its synthesis.

CONTENTS continued >>
Anomalous Criticality in the Electrical Resistivity of La$_{2-x}$Sr$_x$CuO$_4$
R. A. Cooper et al.
High magnetic fields can strip away the superconducting regime of a cuprate superconductor, revealing the presence of an enigmatic quantum critical point.

REVEALING THE MAXIMUM STRENGTH
in Nanotwinned Copper
L. Lu et al.
Studies of nanocrystalline copper reveal changes in deformation mechanisms with grain size and the role played by twin boundaries.

Control of Graphene’s Properties by Reversible Hydrogenation: Evidence for Graphane
D. C. Elias et al.
Graphene can be transformed from a conductor to an insulator by exposure to hydrogen atoms and reversed by a thermal treatment.

Dynamical Quorum Sensing and Synchronization in Large Populations of Chemical Oscillators
A. F. Taylor et al.
Communication between chemical oscillators in solution can mimic that of large populations of single-celled organisms.

Single Nanocrystals of Platinum Prepared by Partial Dissolution of Au-Pt Nanoalloys
M. Schrinner et al.
Gold-platinum nanoparticles, held in polymer networks on latex beads, are converted into platinum nanocrystals.

Cascadia Tremor Located Near Plate Interface Constrained by S Minus P Wave Times
M. La Rocca et al.
A series of microearthquakes near Puget Sound originate near or on the subduction zone fault from a recurrent source.

Divergent Evolution of Duplicate Genes Leads to Genomic Incompatibilities Within A. thaliana
D. Bikard et al.
The divergent evolution of a duplicated gene results in genetic incompatibilities between strains of the plant Arabidopsis.

Serotonin Mediates Behavioral Gregariousness Underlying Swarm Formation in Desert Locusts
M. L. Anstey et al.
Serotonin induces the phenotypic switch from solitary to gregarious behavior in desert locusts.

Survival from Hypoxia in C. elegans by Inactivation of Aminoacyl-tRNA Synthetases
L. L. Anderson et al.
Reduced activity of aminoacyl–transfer RNA synthetases allows for survival from hypoxic insult in the nematode C. elegans.

Ligand-Dependent Equilibrium Fluctuations of Single Calmodulin Molecules
J. P. Junker et al.
Single-molecule force spectroscopy reveals the equilibrium dynamics of calmodulin folding and how it is modulated by peptide ligands.

Stretching Single Talin Rod Molecules Activates Vinculin Binding
A. del Rio et al.
Force-induced stretching of proteins can expose previous cryptic binding sites and promote binding to their ligands.

Mechanically Activated Integrin Switch Controls $\alpha_5\beta_1$ Function
J. C. Friedland et al.
Myosin contraction and extracellular matrix stiffness drive a tension-induced cell-surface integrin switch that regulates cell signaling.

A Human Telomerase Holoenzyme Protein Required for Cajal Body Localization and Telomere Synthesis
A. S. Venteicher et al.
Telomerase Cajal body protein 1 (TCAB1) is the fourth discovered subunit of the chromosome end-capping enzyme telomerase.

PAN1: A Receptor-Like Protein That Promotes Polarization of an Asymmetric Cell Division in Maize
H. N. Cartwright et al.
Asymmetric cell division in plants is regulated by a receptor-like kinase, implicating a signaling cascade in cell polarization.

Calcineurin/NFAT Signaling Is Required for Neuregulin-Regulated Schwann Cell Differentiation
S.-C. Kao et al.
The cell signaling components calcineurin/NFATC and Sox10 control Schwann cell myelination.
Shrinking sea ice may decimate penguin population

Death March of the Penguins?

Dung beetle gives up excrement for the life of a hunter.

No Feces for This Species

Essentially irreversible global damage.

A Millennia-Long Greenhouse Disaster

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www.sciencemag.org/origin

A History of Beginnings

A Role for RNAi in the Selective Correction of DNA Methylation Defects

F. K. Teixeira et al.

An RNA interference–dependent DNA methylation rescue system helps to preserve a subset of DNA methylation marks in Arabidopsis.

10.1126/science.1165313

The Role of Fingerprints in the Coding of Tactile Information Probed with a Biomimetic Sensor

J. Scheibert et al.

Fingertip ridges improve the tactile perception of fine features.

>> News story p. 572

10.1126/science.1166467

Zircon Dating of Oceanic Crustal Accretion

C. J. Lissenberg et al.

Zircon dates from the slow-spreading mid-Atlantic Ridge show that magmatic intrusions formed new oceanic crust regularly and evenly, thereby providing cooling times.

10.1126/science.1167330

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.

10.1126/science.1167747

Comment on “Arsenic (III) Fuels Anoxygenic Photosynthesis in Hot Spring Biofilms from Mono Lake, California”

B. Schoepf-Cohenet et al.

Full text at www.sciencemag.org/cgi/content/full/323/5914/583c

Response to Comment on “Arsenic (III) Fuels Anoxygenic Photosynthesis in Hot Spring Biofilms from Mono Lake, California”

R. S. Orenland et al.

Full text at www.sciencemag.org/cgi/content/full/323/5914/583d

Comment on “Arsenic (III) Fuels Anoxygenic Photosynthesis in Hot Spring Biofilms from Mono Lake, California”

J. Scheibert

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K. Hede

Physician-scientists urge a focus on solutions, not problems, to advance women in academic medicine.

Perspective: Ensuring Retention of Women in Physician-Scientist Training

J. M. Paufl and M. C. Richards

Why do more women than men drop out of M.D.-Ph.D. programs?

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E. Pain

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VOL 323

30 JANUARY 2009

557

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