

489

Fingering spheres of activity in the brain

NEWS & COMMENT

Research and Health Care Costs 416
Can Researchers Help to Lower Costs?

European Biotech: Thumbs Down for Cattle Hormone 418

Rice University Physicist Nominated to Lead NSF 419

Physicists Band Together to Support New Megaproject 420

RESEARCH NEWS

Guam: Deadly Disease Dying Out 424

Helping Premature Lungs Breathe Easier 426

A Source Found for Earth's Commonest Meteorites 427

New Role for Gene Linked to Metastasis Suppression? 428

Coming In Loud and Clear—via Chaos 429

A 'Shotgun Wedding' Finally Produces Test-Tube Plants 430

PERSPECTIVE

The Chemistry of Magnets 431
P. Day

ARTICLE

The Cape Mendocino, California, Earthquakes of April 1992: Subduction at the Triple Junction 433

D. Oppenheimer, G. Beroza, G. Carver, L. Dengler, J. Eaton, L. Gee, F. Gonzalez, A. Jayko, W. H. Li, M. Lisowski, M. Magee, G. Marshall, M. Murray, R. McPherson, B. Romanowicz, K. Satake, R. Simpson, P. Somerville, R. Stein, D. Valentine

RESEARCH ARTICLE

NMR Structure of a Specific DNA Complex of Zn-Containing DNA Binding Domain of GATA-1 438

J. G. Omichinski, G. M. Clore, O. Schaad, G. Felsenfeld, C. Trainor, E. Appella, S. J. Stahl, A. M. Gronenborn

DEPARTMENTS

THIS WEEK IN SCIENCE 405

EDITORIAL 407
Toxic Terror; Phantom Risks

LETTERS 408
Women in Science '93: A "Female Style"?:
L. H. Keller; L. Schiebinger and R. N. Proctor;
L. A. Thomas; H. F. Lodish; L. K. Bleyman;
K. Knecht; M. Elks; B. Farrell; B. Osborne;
N. Hynes; S. Schlick • Editor's Note

SCIENCESCOPE 415

RANDOM SAMPLES 422

Top AIDS Researcher to Do Time • Andromeda Leads a Double Life • Healy Stokes Fire Over Minority Hiring • New AIDS Drug Leaps Over the Counter, etc.

BOOK REVIEWS 497

An Entangled Bank, reviewed by A. Jamison • *A Guide to NIH Grant Programs*, D. E. Atkinson • *The Scientific Revolution in National Context*, M. Feingold • Vignettes • Books Received

PRODUCTS & MATERIALS 502

Board of Reviewing Editors

John Abelson
Frederick W. Alt
Don L. Anderson
Michael Ashburner
Stephen J. Benkovic
David E. Bloom
Floyd E. Bloom
Piet Borst
Michael S. Brown
Henry R. Bourne
James J. Bull

Kathryn Calame
C. Thomas Caskey
Dennis W. Choi
John M. Coffin
Paul J. Crutzen
Robert Desimone
Nicole Le Douarin
Bruce F. Eldridge
Paul T. Englund
Richard G. Fairbanks
Douglas T. Fearon

Harry A. Fozzard
K. Friedrich
Theodore H. Geballe
Margaret J. Geller
John C. Gerhart
Roger I. M. Glass
Stephen P. Goff
Peter N. Goodfellow
Corey S. Goodman
Stephen J. Gould
Ira Herskowitz

Eric F. Johnson
Stephen M. Kosslyn
Michael LaBarbera
Charles S. Levings III
Alexander Levitzki
Harvey F. Lodish
Richard Losick
Diane Mathis
Anthony R. Means
Shigetada Nakanishi
Roger A. Nicoll

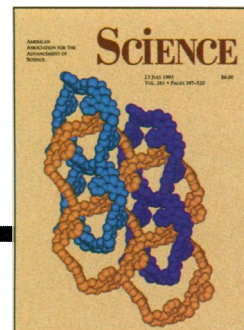
William H. Orme-Johnson III
Stuart L. Pimm
Yeshayau Pocker
Dennis A. Powers
Ralph S. Quatranio
V. Ramanathan
Douglas C. Rees
T. M. Rice
Erkki Ruoslahti
David C. Rubie

Gottfried Schatz
Jozef Schell
Ronald H. Schwartz
Terrence J. Sejnowski
Ellen Solomon
Thomas A. Steitz
Michael P. Stryker
Richard F. Thompson
Robert T. N. Tjian
Emil R. Unanue
Geerat J. Vermeij

Bert Vogelstein
Harold Weintraub
Zena Werb
George M. Whitesides
Owen N. Witte
William A. Wulf
Keith Yamamoto

Structure of a molecular-based magnet that exhibits bulk magnetization at temperatures below 22.5 K. This material contains three kinds of spin carriers, namely Mn(II) and Cu(II) ions together with radical cations, and

has two, nearly perpendicular graphite-like networks that interpenetrate like the rings of a necklace. See page 447 and the Perspective on page 431. [Image: L. O. Ouahab, H. O. Stumpf, Y. Journaux]



REPORTS

A Molecular-Based Magnet with a Fully Interlocked Three-Dimensional Structure

H. O. Stumpf, L. Ouahab, Y. Pei, D. Grandjean, O. Kahn

Strained-Layer van der Waals Epitaxy in a Langmuir-Blodgett Film

R. Viswanathan, J. A. Zasadzinski, D. K. Schwartz

A Function of Lung Surfactant Protein SP-B

M. L. Longo, A. M. Bisagno, J. A. N. Zasadzinski, R. Bruni, A. J. Waring

Tough Times at La Brea: Tooth Breakage in Large Carnivores of the Late Pleistocene

B. Van Valkenburgh and F. Hertel

Small-Scale Convective Instability and Upper Mantle Viscosity Under California

G. Zandt and C. R. Carrigan

Transcription Factor TFIIB Sites Important for Interaction with Promoter-Bound TFIID

S. Yamashita, K. Hisatake, T. Kokubo, K. Doi, R. G. Roeder, M. Horikoshi, Y. Nakatani

Direct Association of Adenosine Deaminase with a T Cell Activation Antigen, CD26

J. Kameoka, T. Tanaka, Y. Nojima, S. F. Schlossman, C. Morimoto

Atherosclerosis in Transgenic Mice Overexpressing Apolipoprotein A-II

C. H. Warden, C. C. Hedrick, J.-H. Qiao, L. W. Castellani, A. J. Lusis

Interleukin-1 Type II Receptor: A Decoy Target for IL-1 That Is Regulated by IL-4

F. Colotta, F. Re, M. Muzio, R. Bertini, N. Polentarutti, M. Sironi, J. G. Giri, S. K. Dower, J. E. Sims, A. Mantovani

Right Hemisphere Dominance for the Production of Facial Expression in Monkeys

M. D. Hauser

Human *c-myc* Transcription Factor PuF Identified as nm23-H2 Nucleoside Diphosphate Kinase, a Candidate Suppressor of Tumor Metastasis

E. H. Postel, S. J. Berberich, S. J. Flint, C. A. Ferrone

Calcium-Dependent Heparin-Like Ligands for L-Selectin in Nonlymphoid Endothelial Cells

K. E. Norgard-Sumnicht, N. M. Varki, A. Varki

A Putative ATP-Activated Na⁺ Channel Involved in Sperm-Induced Fertilization

Y. Kupitz and D. Atlas

Subunit Identification and Reconstitution of the N-Type Ca²⁺ Channel Complex Purified from Brain

D. R. Witcher, M. De Waard, J. Sakamoto, C. Franzini-Armstrong, M. Pragnell, S. D. Kahl, K. P. Campbell

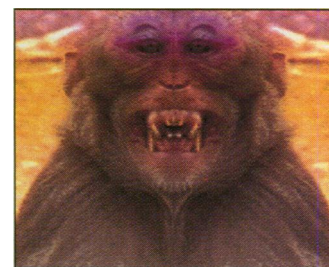
How Somatotopic Is the Motor Cortex Hand Area?

M. H. Schieber and L. S. Hibbard

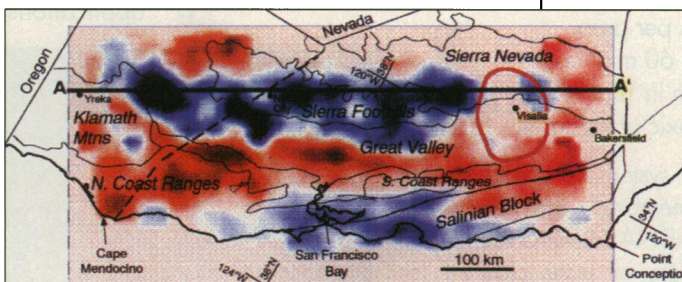
TECHNICAL COMMENTS

Sources of Blindsight

P. Stoerig; L. Weiskrantz; R. Fendrich, C. M. Wessinger, M. S. Gazzaniga



475
Facial expressions of monkeys



460
A view beneath the San Andreas fault

AAAS Board of Directors

F. Sherwood Rowland
Retiring President, Chairman
Eloise E. Clark
President
Francisco J. Ayala
President-elect

Robert A. Froesch
Florence P. Haseltine
William A. Lester, Jr.

Alan Schriesheim
Jean'ne M. Shreeve
Chang-Lin Tien
Warren M. Washington
Nancy S. Wexler

William T. Golden
Treasurer
Richard S. Nicholson
Executive Officer

■ **SCIENCE** (ISSN 0036-8075) is published weekly on Friday, except the last week in December, by the American Association for the Advancement of Science, 1333 H Street, NW, Washington, DC 20005. Second-class postage (publication No. 484460) paid at Washington, DC, and additional mailing offices. Copyright © 1993 by the American Association for the Advancement of Science. The title SCIENCE is a registered trademark of the AAAS. Domestic individual membership and subscription (51 issues): \$87 (\$47 allocated to subscription). Domestic institutional subscription (51 issues): \$205. Foreign postage extra: Mexico, Caribbean (surface mail) \$50; other countries (air assist delivery) \$95. First class, airmail, student and emeritus rates on request. Canadian rates with GST available upon request, GST #1254 88122. Change of address: allow 6 weeks, giving old and new addresses and 11-digit

account number. Postmaster: Send change of address to Science, P.O. Box 2033, Marion, OH 43305-2033. Single copy sales: \$6.00 per issue prepaid includes surface postage; Guide to Biotechnology Products and Instruments, \$20. Bulk rates on request. Authorization to photocopy material for internal or personal use under circumstances not falling within the fair use provisions of the Copyright Act is granted by AAAS to libraries and other users registered with the Copyright Clearance Center (CCC) Transactional Reporting Service, provided that the base fee of \$1 per copy plus \$0.10 per page is paid directly to CCC, 27 Congress Street, Salem, MA 01970. The identification code for Science is 0036-8075/83 \$1 + .10. Science is indexed in the Reader's Guide to Periodical Literature and in several specialized indexes.

Science

261 (5120)

Science **261** (5120), 405-502.

ARTICLE TOOLS

<http://science.sciencemag.org/content/261/5120>

PERMISSIONS

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

Use of this article is subject to the [Terms of Service](#)

Science (print ISSN 0036-8075; online ISSN 1095-9203) is published by the American Association for the Advancement of Science, 1200 New York Avenue NW, Washington, DC 20005. 2017 © The Authors, some rights reserved; exclusive licensee American Association for the Advancement of Science. No claim to original U.S. Government Works. The title *Science* is a registered trademark of AAAS.