1568
New clues to species loss on Madagascar

NEWS & COMMENT

Germany Warily Maps Genome Project 1556
Russia Readies Its First Gene Law 1558
Republicans Split Over Fate of the Department of Energy 1559
Closing In on the Complete Yeast Genome Sequence 1560
Imanishi-Kari Case: Marathon Hearing Gets Under Way 1561
Gathering Airs Schemes for Averting Asteroid Doom 1562
France: AIDS Expert Charged in HIV-Blood Case 1563
German–U.S. Exchanges: Meeting Seeks to Link Young Scientists 1563

RESEARCH NEWS

Mapping the Cell's Nucleus 1564
Can One Type of HIV Protect Against Another Type? 1566

Many Suspects to Blame in Madagascar Extinctions
Did Homo erectus Tame Fire First? 1570
Two Steps for Light-Altering Polymers 1570

PERSPECTIVE

Climatic Warming in North America: Analysis of Borehole Temperatures 1576
D. Deming

ARTICLES

Linked Regularities in the Development and Evolution of Mammalian Brains B. L. Finlay and R. B. Darlington 1578
Extreme Discordant Sib Pairs for Mapping Quantitative Trait Loci in Humans N. Risch and H. Zhang 1584

REPORTS


1592
Hydra-headed polymer

Board of Reviewing Editors

Frederick W. Alt
Don L. Anderson
Michael Ashburner
Stephen J. Benkovic
David E. Bloom
Pat Borst
Henry R. Bourne
Michael S. Brown
James J. Bull
Kathryn Calame
C. Thomas Caskey
Dennis W. Choi
John M. Coffin
F. Fleming Crim
Paul J. Crutzen
James E. Dahlberg
Robert Desimone
Bruce F. Eiholde
Paul T. Englund
Richard G. Fairbanks
Douglas T. Fearon
Harry A. Fozzard
Klaus Fredrich
Theodore H. Geballe
Roger I. M. Glass
Stephen P. Goff
Peter N. Goodfellow
Corey S. Goodman
Ira Herskowitz
Eric F. Johnson
Stephen M. Kosslyn
Michael Lavebera
Nicole Le Douarin
Charles S. Levings III
Alexander Levitzki
Harvey F. Lodish
Richard Losick
Renhard Lohmann
Diane Mathis
Anthony R. Means
Shigetada Nakanishi
Roger A. Nicoll
Stuart L. Pimm
Yeshayahu Pocker
Dennis A. Powers
Ralph S. Quinlan
V. Ramakrish
Douglas C. Rees
T. M. Rice
David C. Rubie
Erkki Ruoslahti
Gottfried Schatz
Jozef Schell
Ronald H. Schwartz
Terrence J. Seynowski
Ellen Solomon
Thomas A. Steitz
Michael P. Snyder
Robert T. N. Tian
Emil R. Unanue
Geerat J. Vermeij
Bert Vogelstein
Arthur Weiss
Zena Werb
George M. Whitesides
Owen N. Witte
William A. Wulf
A hamster brain and a human brain with three computer-generated intermediates to show the differential scaling of brain regions as brain size increases in mammals. A highly conserved sequence of neurogenesis produces predictable and disproportionate growth of late-generated structures as brain size increases. This suggests that processing capacity for specific functions is gained primarily by general rather than local increases in brain size. See page 1578. [Image: J. C. Crowley]

Polystyrene-Dendrimer Amphiphilic Block Copolymers with a Generation-Dependent Aggregation

EUVE Observations of Jupiter During the Impact of Comet Shoemaker-Levy 9

ROSAT Observations of X-ray Emissions from Jupiter During the Impact of Comet Shoemaker-Levy 9

Microchronology and Demographic Evidence Relating to the Size of Pre-Columbian North American Indian Populations
D. R. Snow

Exceptionally Thermally Stable Polyimides for Second-Order Nonlinear Optical Applications

Plant Growth-Rate Dependence of Detrital Carbon Storage in Ecosystems
J. Cebrián and C. M. Duarte

Identification of a Stimulator of Steroid Hormone Synthesis Isolated from Testis

Natural Protection Against HIV-1 Infection Provided by HIV-2

Association of Increased Spontaneous Mutation Rates with High Levels of Transcription in Yeast
A. Datta and S. Jinks-Robertson

Correction of Radiation Sensitivity in Ataxia Telangiectasia Cells by a Truncated IκB-α
M. Jung, Y. Zhang, S. Lee, A. Ditschilo

A Nuclear-Encoded Form II RuBisCO in Dinoflagellates
D. Morse, P. Salois, P. Markovic, J. W. Hastings

Presynaptic Component of Long-Term Potentiation Visualized at Individual Hippocampal Synapses
A. Malgaroli, A. E. Ting, B. Wendland, A. Bergamaschi, A. Villa, R. W. Tsien, R. H. Scheller

Receptor Endocytosis and Dendrite Reshaping in Spinal Neurons After Somatosensory Stimulation

Integration of Visual and Linguistic Information in Spoken Language Comprehension
M. K. Tanenhaus, M. J. Spivey-Knowlton, K. M. Eberhard, J. C. Sedivy

Pain receptors

Origins of Fullerenes in Rocks
T. W. Ebbesen, H. Hiura, J. W. Hedenquist, C. E. J. de Ronde, A. Andersen, M. Often, V. A. Melezhik; P. R. Buseck and S. Tsimpursky

TECHNICAL COMMENTS

AAAS Board of Directors

Francisco J. Ayala
Reforming President, Chairman
Rita R. Colwell
President
Jane Lubchenco
President-elect
William A. Lester Jr.
Simone A. Levin
Michael J. Novacek

Indicates accompanying feature

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 © 1995 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): $97 (50 allocated to subscription). Domestic institutional subscription (51 issues): $229. Foreign postage extra. Mexico, Caribbean (surface mail) $53; other countries (air-slit delivery) $95. First class, airmail, student and emeritus rates on request. Canadian rates with GST available upon request, GST #1254 86122. Printed in the U.S.A.

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: $7.00 per issue prepaid includes surface postage; 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 to AAAS to libraries and other users registered with the Copyright Clearance Center (CCC) Transactional Reporting Service, provided that $3.00 per article is paid directly to CCC, 27 Congress Street, Salem, MA 01970. The identification code for Science is 0036-8075/R $3.00. Science is indexed in the Reader's Guide to Periodical Literature and in several specialized indexes.

SCIENCE • VOL. 268 • 16 JUNE 1995
Science 268 (5217), 1545-1643.