NEWS & COMMENT

A Disconnect for NTT Labs?  186
A $3 Billion Slice of AT&T  187

NIH Launches the Final Push to Sequence the Genome  188

New York Courts Seek 'Neutral' Experts  189

Proposals That Would Limit Visas Strike Fear at Universities  190

Australia Fends Off Critic of Plan to Eradicate Rabbits  191

RESEARCH NEWS

Premature Aging Gene Discovered  193

Comet Hyakutake Blazes in X-rays  194

New Role for HIV: A Vehicle for Moving Genes Into Cells  195

Chemists Clean Ceramics and Coat Enzymes in Plastic  196

Acid Rain's Dirty Business: Stealing Minerals From Soil  198

Error-Correcting Code Keeps Quantum Computers on Track  199

New Data Help Toxicologists Home In on Assessing Risks  200

POLICY FORUM

Is There a Role for Benefit-Cost Analysis in Environmental, Health, and Safety Regulation?  221


PERSPECTIVES

History of Global Metal Pollution  223
J. O. Oriagu

Cell Shape Determination: A Pivotal Role for Rho
H. Bussey

Arousal: Revisiting the Reticular Activating System
M. Steriade

DEPARTMENTS

THIS WEEK IN SCIENCE  173
EDITORIAL  177

The Metaphor of Distributed Intelligence
Vice President Al Gore

LETTERS  179

Sun-Climate Links: C. Covey • And the Winner Is...: E. P. Scully • Bad Science, Bad Policy?: H. I. Miller • Calculus as a Tool: R. E. Hurst • The ITER Project: P. H. Rutherford; C. C. Baker • Structure of W(CH3)6: C. R. Landis, T. Cleveland, T. K. Firman; K. Seppelt • Strangelovian Concepts: B. Onisko • Note from the Editor-in-Chief

BOOK REVIEWS  217

Thread of the Silkworm, reviewed by M. J. Neufeld
Launching Europe, W. Finlay • Scientifically Yours • Vignettes

PRODUCTS & MATERIALS  285

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Confocal microscope image of a section from an adult rat brain injected 4 weeks earlier with a human immunodeficiency virus–based vector expressing β-galactosidase (β-gal). The section was stained by immunofluorescence with antibodies to β-gal (green), the neuronal-specific marker NeuN (red), and the astrocytic protein GFAP (blue). A β-gal–expressing neuron (doubly stained, yellow) shows that the vector can transfer genes into nondividing cells, a desirable trait in gene therapy. Image width: ~240 micrometers. See page 263 and the related News story on page 195. [Image: U. Blömer and F. H. Gage]

### ARTICLE

**Protein Sorting by Transport Vesicles**

J. E. Rothman and F. T. Wieland

**RESEARCH ARTICLE**

**Global Observations of Oceanic Rossby Waves**

D. B. Chelton and M. G. Schlax

**REPORTS**

**Long-Term Effects of Acid Rain:**

G. E. Likens, C. T. Driscoll, D. C. Buso

**History of Ancient Copper Smelting Pollution During Roman and Medieval Times Recorded in Greenland Ice**

S. Hong, J.-P. Candelier, C. C. Patterson, C. F. Boutron

**Extraterrestrial Helium Trapped in Fullerences in the Sudbury Impact Structure**

L. Becker, R. J. Poreda, J. L. Bada

**Orientation-On-Demand Thin Films:**

H. Körner, A. Shiota, T. J. Bunning, C. K. Ober

**Curing of Liquid Crystalline Networks in ac Electric Fields**

J. J. Macklin, J. K. Trautman, T. D. Harris, L. E. Brus

**Positional Cloning of the Werner’s Syndrome Gene**


**In Vivo Gene Delivery and Stable Transduction of Nondividing Cells by a Lentiviral Vector**


**Accurate Processing of a Eukaryotic Precursor Ribosomal RNA by Ribonuclease MRP in Vitro**

Z. Lygerou, C. Allmang, D. Tollervey, B. Séraphin

**Role of Reticular Activation in the Modulation of Intracortical Synchronization**

M. H. J. Munk, P. R. Roelfsema, P. König, A. K. Engel, W. Singer

**Short-Term Plasticity of a Thalamocortical Pathway Dynamically Modulated by Behavioral State**

M. A. Castro-Alamanos and B. W. Connors

**Rhö1p, a Yeast Protein at the Interface**


**Identification of Yeast Rhö1p GTPase as a Regulatory Subunit of 1,3-β-Glucan Synthase**


**TECHNICAL COMMENTS**

**Lophophorate Phylogeny**


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