This Week in Science

United States Trade

SDI Survey: S. Soter

Nuclear Winter Debate: C. Covet; B. Heinrich;

J. T. Bohanon; A. H. Ehrlich; P. R. Ehrlich; H. A. Mooney; R. Seitz;

E. Marshall

Osteoporosis Reexamined: Complexity of Bone Biology Is a Challenge

Textbook Credits: Bruise Psychiatrists' Ego

The SSC's Price Tag Troubles Congress

Teacher Certification Program Under Way

Treaty Compliance Rated Good

Alvin Trivelpiece of DOE Is Named New Executive Director of AAAS

BioTechnica Tests EPA Review Process

Briefing: EPA Okays Field Test

Bright Synchrotron Sources Evolve

Histocompatibility Restriction Explained

Do-It-Yourself Universes

Defect in Alzheimer's Is on Chromosome 21

Seabed Materials: J. M. Broadus

Covalent Group IV Atomic Clusters: W. L. Brown, R. R. Freeman,

K. Raghavachari, M. Schlüter

Immunological Self, Nonself Discrimination: J.-G. Guillet, M.-Z. Lai,

T. J. Briner, S. Buus, A. Sette, H. M. Grey, J. A. Smith, M. L. Gepter

Dianon Stabilization by (M(C6(CH3)3)3)3+: Theoretical Evidence for a Localized

Ring in (DDQ)2: J. S. Miller and D. A. Dixon

Conservation of Brain Amyloid Proteins in Aged Mammals and Humans with

Alzheimer's Disease: D. J. Selkoe, D. S. Bell, M. B. Podlisny, D. L. Price,

L. C. Cork

Characterization and Chromosomal Localization of a cDNA Encoding Brain

Amyloid of Alzheimer's Disease: D. Goldgaber, M. I. Lerman,

O. W. McBride, U. Saffiotti, D. C. Gajdusek
A color graphic display of an optical density scan of prefrontal cortex from a cynomolgus monkey, hybridized with an RNA probe transcribed from complementary DNA clone AAm4 coding for Alzheimer β amyloid polypeptide. Each color represents an optical density range of grain clusters, with red as highest, green as intermediate, and blue as lowest density. See page 873. [Graphic provided by John H. Morrison, Gerald A. Higgins, David A. Lewis, and Michael C. Wilson, Scripps Clinic and Research Foundation, La Jolla, CA 92037; and Sina Bahmanyar, Dmitry Goldgaber, S. K. Shankar, and D. Carleton Gajdusek, National Institutes of Health, Bethesda, MD 20205; computer software (E.M.M.A.) by Warren Young and Mark Shin, Scripps Clinic and Research Foundation]


890 Cytochrome P-450--Catalyzed Formation of Δ4-VPA, a Toxic Metabolite of Valproic Acid: A. E. Rettie, A. W. Rettenmeier, W. N. Howald, T. A. Baillie

893 Substance P Activation of Rheumatoid Synoviocytes: Neural Pathway in Pathogenesis of Arthritis: M. Lotz, D. A. Carson, J. H. Vaughn


901 U3 Sequences from HTLV-I and -II LTRs Confer πX Protein Response to a Murine Leukemia Virus LTR: H. Kito, I. S.-Y. Chen, N. P. Shah, A. J. Cann, K. Shimotohno, H. Fan

AAAS Meetings

912 Annual Meeting: Call for Symposium Proposals

Book Reviews

914 Distributional Conflicts in Environmental-Resource Policy, reviewed by H. Etzkowitz My Daughter Beatrice, G. R. Knapp The Consequences of Chromosome Imbalance, R. S. Sparks Prehistoric Hunter-Gatherers in Japan, D. K. Charles Books Received

Products & Materials

918 Flicker-Fusion Apparatus Bibliographic Software Image Analysis System DNA Synthesizer Scientific Graphics Software Molecular Modeling Software Color-Coded Glass Pipettes Literature