This Week in Science

Editorial

485 Waste Not, Want Some

Letters

490 Science Funding: J. Katz; C. Loehle; S. Harcourt; S. L. Weinberg; D. M. Einolf; N. Brenner; R. Roy; L. Lederman ■ B Meson Lifetime: L. J. Rosenberg

ScienceScope

497 Sex survey stalled; DOE lab user fees in limbo; etc.

News & Comment

498 DOE's Genome Project Comes of Age ■ Refocusing Biology at DOE

500 LBL Genome Center to Try Leadership by Committee

501 Deaths In Vaccine Trials Trigger French Inquiry

502 Math Ph.D.’s: Bleak Picture ■ Mathematician, Heal Thyself

504 Ecologists Set Broad Priorities for 1990s

Research News

505 On the Right Track to the NGF Receptor

506 An RNA First: It’s Part of the Gene-Copying Machinery

508 Antinoise Creates the Sounds of Silence

510 Do Anticracks Trigger Deep Earthquakes?

511 Where Chemists React: ACS Meeting in Atlanta: Tinkertoys Grow Up ■ Arrested Growth

512 Briefings: Signs of Intelligent Life? ■ Opening the Mail ■ Voyage to Inner Earth ■ The Molecule That’s Supercool ■ Testy Fellows ■ No Free Lunch ■ Grants Without Frontiers ■ Lonely Ph.D. Seeks Like

Perspective

520 Progress Toward Malaria Preerythrocyotic Vaccines: S. L. Hoffman, V. Nussenzenweig, J. C. Sadoff, R. S. Nussenzenweig

Articles


528 Back-Action Evasion as an Alternative to Impedance Matching: B. Yurke

533 The Control of Oxidant Stress at Fertilization: B. M. Shapiro

Research Articles


542 A Class III Transcription Factor Composed of RNA: L. S. Young, H. M. Dunstan, P. R. Witte, T. P. Smith, S. Ottonello, K. U. Sprague

Reports

547 Ordered Overlayers of C60 on GaAs(110) Studied with Scanning Tunneling Microscopy: Y. Z. Li, J. C. Patrin, M. Chandez, J. H. Weaver, L. P. F. Chibante, R. E. Smalley
COVER Expression of the trk proto-oncogene in neurons of the adult mouse trigeminal ganglion. This photomicrograph shows a toluidine blue–stained section of trigeminal ganglion that has been hybridized with an antisense trk complementary RNA probe. The grains that overlie the large, light blue neurons indicate trk expression. The smaller, dark blue, nonneuronal cells do not express trk. See page 554. [In situ hybridization and photomicroscopy by L. F. Parada]

548 The Higher Fullerenes: Isolation and Characterization of C_{70}, C_{84}, C_{90}, C_{94}, and C_{70}O, an Oxide of D_{5h}C_{70}; F. Diederich, R. Ettli, Y. Rubin, R. L. Whetten, R. Beck, M. Alvarez, S. Anz, D. Sensharma, F. Wudl, K. C. Khemani, A. Koch

551 Deep UV Photochemistry of Chemisorbed Monolayers: Patterned Coplanar Molecular Assemblies: C. S. Dulcey, J. H. Georger, Jr., V. Krauthamer, D. A. Stenger, T. L. Fare, J. M. Calvert


561 Chimeric NGF-EGF Receptors Define Domains Responsible for Neuronal Differentiation: H. Yan, J. Schlessinger, M. V. Chao

563 Clusters of Coupled Neuroblasts in Embryonic Neocortex: J. J. Lo Turco and A. R. Kriegstein

566 Direct Molecular Identification of the Mouse Pink-Eyed Unstable Mutation by Genome Scanning: M. H. Brilliant, Y. Gondo, E. M. Eicher

569 Determination of Primary Motoneuron Identity in Developing Zebrafish Embryos: J. S. Eisen


574 Uncoupling of the Spectrin-Based Skeleton from the Lipid Bilayer in Sickled Red Cells: S.-C. Liu, L. H. Derick, S. Zhai, J. Palek

576 Regulation of Ras-GAP and the Neurofibromatosis-1 Gene Product by Eicosanoids: J.-W. Han, F. McCormick, I. G. Macara

579 Spatial Control of Gut-Specific Gene Expression During Caenorhabditis elegans Development: E. J. Aamodt, M. A. Chung, J. D. McGhee

Inside AAAS


Book Reviews


Products & Materials

592 DNA Thermal Cycler ■ Sequencing Apparatus ■ Post-Transfer Immunobinding System ■ Second-Generation PCR ■ Spectrophotometer ■ Closed Tank Lab Stirrer ■ Portable Printer ■ Literature