Editorial

1621 Federal Policies in Transition

Letters


News & Comment

1625 Panel Backs Fetal Tissue Research
1626 Budget Advice from the Academy
1627 Locusts in Africa: A Plague is Possible
1628 Test Ban Talks Reach Impasse
1629 Britain Decides to Stay in CERN U.S.—Soviet Ecology Agreement
1630 Weapons Reactor Restart Set Back Hughes, GM Battle Over Stock Value European Space Science
1631 Europeans Approve 6-GeV Synchrotron... . . . Japanese Pick Site for 8-GeV Facility Stopping the Brain Drain at NIH

Research News

1632 American Indian Language Dispute
1634 PCs Factor a “Most Wanted” Number ■ Souping up the Sieve
1636 Life History Patterns Emerge in Primate Study
1637 Costa Rican Biodiversity
1638 Progress Reported on Mouse Model for AIDS
1639 Random Samples: California, Here They Go ■ The Energy Index ■ Sally May Ride

Articles

1645 Laser Femtochemistry: A. H. ZEWAIL
1654 The Intrinsic Electrophysiological Properties of Mammalian Neurons: Insights into Central Nervous System Functions: R. R. LINNÁS

Research Articles

cover Three-dimensional reconstruction of human epileptic cortex showing a large neuronal nucleus with a large nucleolus (yellow) and surrounded by multiple smaller astrocytic nuclei. The neuron shows an interior and abnormal position of one of the two chromosome 9 centromere signals (red). Astrocytic in situ hybridization signals are depicted either in magenta (pink) or cyan (turquoise) for each cell. See page 1687.

Reports


1678 Restoration of Torque in Defective Flagellar Motors: D. F. Blair and H. C. Berg

1681 Association of Transfer RNA Acceptor Identity with a Helical Irregularity: W. H. McClain, Y.-M. Chen, K. Foss, J. Schneider

1684 Infection of the SCID-hu Mouse by HIV-1: R. Namikawa, H. Kaneshima, M. Lieberman, I. L. Weissman, J. M. McCune

1687 Movement of the X Chromosome in Epilepsy: J. Borden and L. Manuelpidis

1691 Complementary Hemispheric Specialization in Monkeys: C. R. Hamilton and B. A. Vermeire

1694 Contributions of Quisqualate and NMDA Receptors to the Induction and Expression of LTP: D. Muller, M. Joly, G. Lynch


1700 Repair of the Secretion Defect in the Z Form of α1-Antitrypsin by Addition of a Second Mutation: M. Brantly, M. Courtney, R. G. Crystal


1706 Engraftment of Immune-Deficient Mice with Human Hematopoietic Stem Cells: S. Kamel-Reid and J. E. Dick

Book Reviews

1710 The Non-Darwinian Revolution, reviewed by D. L. Hull ■ Thinking About Science, K. Bergman ■ Transposition, M. Malamy ■ The Lightning Discharge, W. D. Rust ■ Books Received

Products & Materials

1715 Biomolecular Purification ■ Scientific Calculator ■ Reaction Columns with Immobilized Enzymes ■ Precast Electrophoresis Gels ■ Digital Camera ■ Automated Fraction Collector ■ Literature

Author Index to Volume 242 is found on pages I–X. Information for Contributors is found on pages XI–XII.