This Week in Science

Editorial
1541 The Molecule of the Year

Perspective
1543 The Molecule of the Year: Ruth L. Guyer and D. E. Koshland, Jr.

Letters

News & Comment
1551 Hubble: Great Telescope, Bad Service Plan
1553 Plea to Bromley: Save Our Neutrons
1554 Britain's Lords Debate Embryo Research
1555 Science and PR: North of the Border
1556 Maine Case Deals Blow to DNA Fingerprinting

Research News
1559 New AIDS Drugs Take Careful Aim
1560 Is the AIDS Epidemic Slowing?
1561 Key Piece Found for Immunology Puzzle?
1562 Geophysics from Triton to the Deep Blue Sea: New Quake Forecast: North by Northwest ■ Loma Prieta Quake Unsettles Geophysicists ■ A Geologically Young Triton After All? ■ Bringing Down the Sea Level Rise
1564 Briefings: R&D Lobby Spends NSF's '91 Budget ■ AIDS Tests Fail ■ Study Puts Admiral Peary at North Pole ■ Global Change Encyclopedia on Disc ■ A Faster Parallel Computer for 1992 ■ Academy Recognizes Koopt ■ Canadian Kludge? ■ Bromley OSTP Team at Full Strength? ■ George Mason U. Snares NSF's Moore ■ HUGO: Genome Data Open to Scientists

Articles
1566 Origins of Agriculture in Eastern North America: B. D. Smith
1571 Quantifying the Information Content of Lattice Images: A. Ourmazd, D. W. Taylor, M. Bode, Y. Kim

Research Articles
1578 Specific Interactions in RNA Enzyme-Substrate Complexes: C. Guerrieri-Takada, N. Lumelsky, S. Altman

Reports
1589 Growth of Greenland Ice Sheet: Interpretation: H. J. Zwally
1591 Thermomolecular Pressure in Surface Melting: Motivation for Frost Heave: J. G. Dash
1595 The Anticodon Contains a Major Element of the Identity of Arginine Transfer RNAs: L. H. Schulman and H. Pelka
A Model of Human Acute Lymphoblastic Leukemia in Immune-Deficient SCID Mice: S. KAMEL-REID, M. LETARTE, C. SIRARD, M. DOEDENS et al.

Endothelial Interleukin-8: A Novel Inhibitor of Leukocyte-Endothelial Interactions: M. A. GIMBRONE, JR., M. S. OBIN, A. F. BROCK et al.

Conserved Repetitive Epitope Recognized by CD4+ Clones from a Malaria-Immunized Volunteer: E. H. NARDIN, D. A. HERRINGTON, J. DAVIS et al.

Inhibition of Antigen-Induced Lymphocyte Proliferation by Tat Protein from HIV-1: R. P. VISCIDI, K. MAYUR, H. M. LEBERMAN, A. D. FRANKEL


Immunodeficiency and Clonal Growth of Target Cells Induced by Helper-Free Defective Retrovirus: M. HUANG, C. SIMARD, P. JOLICOUR

Cyclosporin A Specifically Inhibits Function of Nuclear Proteins Involved in T Cell Activation: E. A. EMMEI, C. L. VERWEIJ, D. B. DURAND et al.


Regulation of Proenkephalin by Fos and Jun: J. L. SONNENBERG, F. J. RAUSCHER III, J. I. MORGAN, T. CURRAN

Functional Analysis of CAR, the Target Sequence for the Rev Protein of HIV-1: E. T. DAYTON, D. M. POWELL, A. I. DAYTON


RNA Editing in Plant Mitochondria: R. HIESEL, B. WISSINGER, W. SCHUSTER, A. BRENNICK


Program for Drawing Chemical Structures ■ Monoclonal Antibodies ■ Delivery System for Cell Injection ■ Plastic Slide Case ■ Data Acquisition and Analysis Software ■ Genome Qualified Restriction Enzymes ■ Literature

Author Index to Volume 246 is found on pages I-X. Information for Contributors is found on XI-XII.