

1443 This Week in *Science*

## Editorial

1445 Nature, Nurture, and Behavior

## Letters

1447 Accuracy and Truth: R. R. WHITE; D. E. KOSHLAND, JR. ■ Universe Creation: H. TOPOFF ■ Basic Research Funding: J. PRATT ■ Vietnam Report: M. J. LEVY, JR.; S. P. HUNTINGTON

## Perspective

1450 A New Agricultural Frontier: P. H. ABELSON AND J. W. ROWE

## News & Comment

1452 Chemical Weapons Pact Edging Closer

1453 Politics of the Genome

1454 Genentech Sues FDA on Growth Hormone

1455 The Vatican Weighs In

1456 Soviet Union Accused of Treaty Violations ■ Denmark OK's Radar ■ When Nunn Speaks. . .

1458 NSF Goes to Congress with Plans for Growth

1459 California's Debate on Carcinogens  
Textbook Ruling Sparks Concern

## Research News

1460 Man and Machine Forecast Big Snow

1461 Supernova Neutrinos at IMB

1462 Imminent Marketing of AZT Raises Problems  
Marrow Suppression Hampers AZT Use in AIDS Victims

1464 Mathematical Model Predicts AIDS Spread

1465 Life Thrives Under Breaking Ocean Waves

## Articles

1467 Impending United States Energy Crisis: R. L. HIRSCH

1473 Chemical Reactions on Clays: P. LASZLO

1478 Model Studies in Molecular Recognition: J. REBEK, JR.

## Reports

1485 Two Gamma-Ray Sources and Ancient Guest Stars: Z.-R. WANG

1486 Post-Transcriptional Control of Class I MHC mRNA Expression in Adenovirus 12-Transformed Cells: R. T. M. J. VAESSEN, A. HOUWELING, A. J. VAN DER EB

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**COVER** Domains of a synthetic molecular cleft. Regions of high polarity (red and blue) in the lining of the cleft combine with hydrophobic methyl groups (yellow) and an aromatic acridine nucleus (green). These domains provide surfaces for binding smaller molecules of complementary size, shape, and functionality in studies of molecular recognition. See page 1478. [W. C. Still, University of Pittsburgh, Pittsburgh, PA 15260]

- 1489 Molecular Cloning and Expression of a Human B-Cell Growth Factor Gene in *Escherichia coli*: S. SHARMA, S. MEHTA, J. MORGAN, A. MAIZEL
- 1492 Elevated Levels of Glucose Transport and Transporter Messenger RNA Are Induced by *ras* or *src* Oncogenes: J. S. FLIER, M. M. MUECKLER, P. USHER, H. F. LODISH
- 1495 Transformation of Rat Fibroblasts by FSV Rapidly Increases Glucose Transporter Gene Transcription: M. J. BIRNBAUM, H. C. HASPEL, O. M. ROSEN
- 1498 The Immunoglobulin Octanucleotide: Independent Activity and Selective Interaction with Enhancers: T. G. PARLOW, S. D. JONES, B. BOND, K. R. YAMAMOTO
- 1501 Characterization and Clinical Association of Antibody Inhibitory to HIV Reverse Transcriptase Activity: J. LAURENCE, A. SAUNDERS, J. KULKOSKY
- 1504 Human CSF-1: Molecular Cloning and Expression of 4-kb cDNA Encoding the Human Urinary Protein: G. G. WONG, P. A. TEMPLE, A. C. LEARY, J. S. WITEK-GIANNOTTI, Y.-C. YANG, A. B. CIARLETTA, M. CHUNG *et al.*
- 1509 Vertical Distribution of an Estuarine Snail Altered by a Parasite: L. A. CURTIS
- 1511 F-Actin and Microtubule Suspensions as Indeterminate Fluids: R. E. BUXBAUM, T. DENNERLL, S. WEISS, S. R. HEIDEMANN
- 1514 Two Mammalian Genes Transcribed from Opposite Strands of the Same DNA Locus: J. P. ADELMAN, C. T. BOND, J. DOUGLASS, E. HERBERT
- 1517 Optical Trapping and Manipulation of Viruses and Bacteria: A. ASHKIN AND J. M. DZIEDZIC

## Book Reviews

- 1521 The Therapeutic Perspective *reviewed by* M. S. PERNICK ■ The Murals of Bonampak, C. C. COGGINS ■ Wave Interactions and Fluid Flows, T. R. AKYLAS ■ On the Economy of Plant Form and Function, J. A. TEERI ■ Books Received

## Products & Materials

- 1525 Four Restriction Enzymes ■ FORTRAN Graphics Library ■ Publication-Quality Computer Graphics ■ Eye Wash Station ■ Software for Data Collection ■ Pharmacokinetic Analysis Software ■ Literature

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