LETTERS


ARTICLES

Plasticity of the Differentiated State: H. M. Blau et al.
The Action of Oncogenes in the Cytoplasm and Nucleus: R. A. Weinberg.

EDITORIAL

In Pursuit of the Renewable Frontier.

NEWS AND COMMENT

GAO Battles Pentagon on Chemical Weapons.
Congress Questions SSC Cost.
Surgeons Disagree on Artificial Heart.
Americans Scarce in Math Grad Schools.

Briefing: Sub-Sahara Needs Quick Help to Avert Disaster; BNL Security Fix Stalls Restart on Beam Reactor; Spy Trade Might Free Two Soviet Scientists; USDA May Be Asked to Police Animal Research, Ownership of Cells Raises Sticky Issues.

The Japanese Challenge in Biotechnology.
Z-DNA: Still Searching for a Function ........................................ 794
Dental Humans, Infant Apes ................................................ 795
Laser Extremes Probe Atoms and Molecules .......................... 797

ANNUAL MEETING Call for Contributed Papers ....................... 798

BOOK REVIEWS
The Background of Ecology and Modeling Nature, reviewed by R. E. Ricklefs; Chemistry in America, 1876-1976, J. W. Servos; Changes in Eukaryotic Gene Expression in Response to Environmental Stress, E. A. Craig; The Evolution of the East Asian Environment, A. M. C. Şengör; Books Received ........ 799

REPORTS
Hypertension in the Recently Weaned Dahl Salt-Sensitive Rat Despite a Diet Deficient in Sodium Chloride: T. W. Kurtz and R. C. Morris, Jr. 806
A New HTLV-III/LAV Encoded Antigen Detected by Antibodies from AIDS Patients: J. S. Allan et al. ............................. 810
Electrokinetic Separation of Chiral Compounds: E. Gassmann, J. E. Kuo, R. N. Zare ................ 813
Novel Role for Phycocerythrin in a Marine Cyanobacterium, Synechococcus Strain DC2: M. Wyman, R. P. F. Gregory, N. G. Carr ........ 818
Synthesis of Fibrils in Vitro by a Solubilized Cellulose Synthase from Acetobacter xylinum: F. C. Lin, R. M. Brown, Jr., J. B. Cooper, D. P. Delmer .............. 822
The Insulin Receptor Contains a Calmodulin-Binding Domain: C. B. Graves, R. R. Goewert, J. M. McDonald .................. 827

COVER
Expression of a human muscle gene by a human hepatocyte nucleus. Mouse muscle cells (blue punctate nuclei) and human nonmuscle cells (blue uniformly stained nuclei) are fused to form heterokaryons. Upon exposure to muscle cytoplasm, cells specialized for different tissues can be induced to express gene products characteristic of muscle (red immunofluorescence). See page 758. [S. C. Miller in collaboration with H. M. Blau, Department of Pharmacology, Stanford University, School of Medicine, Stanford, California 94305]