LETTERS

“Nuclear Winter” Calculations: P. V. Hobbs; Diagnostic Ultrasound: R. Bases; M. W. Miller and V. Ciuravino; Murine Retroviral Vectors and Human Gene Therapy: D. N. Cooper; M. A. Martin, S. P. Goff, W. F. Anderson

EDITORIAL

A New Feature in Science

ARTICLES

Activated Proto-onc Genes: Sufficient or Necessary for Cancer?: P. H. Duesberg

DNA Elements Are Asymmetrically Joined During the Site-Specific Recombination of Kappa Immunoglobulin Genes: S. Lewis, A. Gifford, D. Baltimore

Function and Autoregulation of Yeast Copperthionein: D. H. Hamer, D. J. Thiele, J. E. Lemont

NEWS AND COMMENT

Spotlight Falls on U.S. Science Policy

Sociology Stir at Harvard

France Seeks Joint European Research

Administration at Odds over Soviet Cheating

Briefing: Academic Consortia Receive First Star Wars Grants; NRC Tries To Reduce Public Access; Bok Puts Computers in Their Place

RESEARCH NEWS

A Soviet Plan for Exploring the Planets

Pity the Poor Weatherman

The Next Lap in the Race

Tooth Enamel Tells a Complex Story

AAAS NEWS

Los Angeles Hosts Annual Meeting; Member Resource Room—a “First; New Books from the AAAS; Membership Office Needs Your Help to Stop Duplication; AAAS Honors Argentine President; Obituaries
The Biology of Butterflies, reviewed by P. F. Brussard; James E. Keeler, D. J. Warner; Climate Processes and Climate Sensitivity, A. Robock; Farms, Villages, and Cities, K. Randsbro; Books Received 711


Study by Synchrotron Radiation of the Structure of a Working Catalyst at High Temperatures and Pressures: M. Boudart et al. 717

Coupling of Tetrahymena Ribosomal RNA Splicing to β-Galactosidase Expression in Escherichia coli: J. V. Price and T. R. Cech 719

Individual Tumors of Multifocal EB Virus–Induced Malignant Lymphomas in Tamarins Arise from Different B-Cell Clones: M. L. Cleary et al. 722

Transfection of v-ras DNA into MCF-7 Human Breast Cancer Cells Bypasses Dependence on Estrogen for Tumorigenicity: A. Kasid et al. 725

Gene for Human Insulin Receptor: Localization to Site on Chromosome 19 Involved in Pre-B-Cell Leukemia: T. L. Yang-Feng, U. Francke, A. Ulrich. 728


Human Immunoglobulin D: Genomic Sequence of the Delta Heavy Chain: M. B. White et al. 733

Vaccinia Virus Recombinant Expressing Herpes Simplex Virus Type 1 Glycoprotein D Prevents Latent Herpes in Mice: K. J. Cremer et al. 737

Identification of Human Glucocorticoid Receptor Complementary DNA Clones by Epitope Selection: C. Weinberger et al. 740

Expression of the Chlamydial Genus-Specific Lipopolysaccharide Epitope in Escherichia coli: F. E. Nano and H. D. Caldwell 742

A Vital Stain for the Golgi Apparatus: N. G. Lipsky and R. E. Pagano 745

Trigeminal-Taste Interaction in Palatability Processing: K. C. Berridge and J. C. Fentress 747

EEG Alpha Activity Reflects Attentional Demands, and Beta Activity Reflects Emotional and Cognitive Processes: W. J. Ray and H. W. Cole 750

Widespread Distribution of Brain Dopamine Receptors Evidenced with [125I]Iodosulpride, a Highly Selective Ligand: M.-P. Martres et al. 752

Detection of Serum Antibodies to Borna Disease Virus in Patients with Psychiatric Disorders: R. Rott et al. 755

Cover

Autoregulation of yeast copperthionein gene. Yeast cells were grown on a bromthymol blue galactose indicator plate on which positive cells are yellow and negative cells are white. Both strains contain an episomal fusion gene in which yeast copperthionein regulatory sequences drive the expression of bacterial galactokinase. The cells to the left contain multiple copies of the chromosomal structural gene for copperthionein and are galactose-negative. The cells to the right lack an intact copperthionein gene and are galactose-positive due to increased basal transcription of the fusion gene. See page 685. [Dean H. Hamer, National Institutes of Health, Bethesda, Maryland 20205]