LETTERS

EDITORIAL
Science, Engineering, and Technology: A. J. Harrison .......................... 543

ARTICLES
Chemistry and Chemical Intermediates in Supersonic Free Jet Expansions: T. A. Miller ........................................................... 545
Communications Satellites: Countdown for INTELSAT VI: L. Pollack and H. Weiss .......................................................... 553
Chromosome 4 Jα Gene Controls Murine T Cell Surface I-J Expression: C. E. Hayes et al. ...................................................... 559

NEWS AND COMMENT
The Reagan Budget: More of the Same .............................................. 564
Missile Talks Doomed from the Start ............................................ 566
Briefing: Archeologist to Head Smithsonian; Ban on Shooting Animals for Research Is Lifted; International Group Suspends Nestlé Boycott; DOE Managerial Reshuffle: No Plans to Self-Destruct; Medical Groups Protest New “Baby Doe” Rules .................................................. 568
Newman’s Impossible Motor .................................................. 571

RESEARCH NEWS
Tracking the Lost I-J Suppressor Region ........................................ 573
Briefing: Through a Lens Darkly; Splashdance ................................ 574
Manganese Nodules Grow by Rain from Above ......................... 576
Why Are There Any Nodules at All? ......................................... 577

AAAS NEWS
Societies Look at Professional Ethics Programs; AAAS Socio-Psychological Prize; Grants to Self-Sponsored Foreign Graduate Students to Attend 1984 Annual
Meeting: Calendar of Major Scientific Meetings; Guide to Research Activities Available; Networking Projects Involving Native American Scientists and Engineers; Obituaries ................................................... 578

BOOK REVIEWS
Mary Somerville and the Cultivation of Science, 1815–1840, reviewed by S. Sheets-Pyenson; Haphazard Reality, D. C. Cassidy; Chromosome Mutation and Neoplasia, A. M. R. Taylor; Handbook of Experimental Pollination Biology, B. Rathcke; Relativistic Astrophysics, J. Silk; Books Received .................................................... 580

REPORTS
Bismuth Bronze from Machu Picchu, Peru: R. B. Gordon and J. W. Rule ofde ... 585
Phosphorylation Events During Müllerian Duct Regression: J. M. Hutson et al. ... 586
Inhibitors of Poly(Adenosine Diphosphate–Ribose) Synthesis: Effect on Other Metabolic Processes: K. M. Milam and J. E. Cleaver ... 589
Cerebellar Autonomic Function: Direct Hypothalamic-cerebellar Pathway: E. Dietrichs ... 591
Antigenic Similarity Between Cells Transformed by Ultraviolet Radiation in vitro and in vivo: M. S. Fisher, M. L. Kripke, G. L. Chan ... 593
Adaptive Response of Human Lymphocytes to Low Concentrations of Radioactive Thymidine: G. Olivieri, J. Bodycote, S. Wolf ... 594
Identification of an Erythrocyte Component Carrying the Duffy Blood Group Fy^a Antigen: T. J. Hadley et al. ... 597
Virus-Like Sensitivity of the Scrapie Agent to Heat Inactivation: R. G. Rohwer ... 600
A New Type D Retrovirus Isolated from Macaques with an Immunodeficiency Syndrome: M. D. Daniel et al. ... 602
Epinephrine Enables Pavlovian Fear Conditioning Under Anesthesia: N. M. Weinberger, P. E. Gold, D. B. Sternberg ... 605
Prolongation of Rat Islet Allograft Survival by Direct Ultraviolet Irradiation of the Graft: H. Lau, K. Reemtsma, M. A. Hardy ... 607
Male Crickets Feed Females to Ensure Complete Sperm Transfer: S. K. Sakaluk ... 609

Interference contrast photomicrograph of a hypothalamic neuron (close to the ventral surface of the brainstem) retrogradely labeled with wheat germ agglutinin–horseradish peroxidase after injection in feline cerebellar cortex. The demonstration of a hypothalamocerebellar projection introduces a pathway through which cerebellum may be directly influenced by higher autonomic centers (about x3900). See page 591. [Espen Dietrichs, Anatomical Institute, University of Oslo, Oslo 1, Norway]