LETTERS

EDITORIAL
Coping with Gridlock

ARTICLES
Adventure into Space: E. M. Burbidge
Science and the Urban University: D. Adamanay

ASSOCIATION AFFAIRS
David A. Hamburg: President-Elect of AAAS: J. Lederberg
AAAS Council Meeting, 1983: C. Borras

NEWS AND COMMENT
Congress, NIH Open Coffers for AIDS
AIDS Fears Spark Row Over Vaccine
Review Panel Finds Federal Labs Lacking
FDA Draws Criticism on Prenatal Test
Briefing: Pesticide Office Demands New Safety Studies; NRC Delays Pipe Inspections; Air Force Unravels Rocket Mystery; Boom and Bust in Energy; Smithsonian Inventory Turns Up Lots of Stuff

RESEARCH NEWS
The T Cell Receptor—At Hand at Last
Archeological Analysis Gets Some Teeth
Satellite Briefing: Frigid Oceans for Triton and Titan; Chaotic Rotation Predicted for Hyperion; Could Saturn’s Rings Have Melted Enceladus; Volcanism at 100° Below
REPORTS

Uranus: Variability of the Microwave Spectrum: S. Gulkis et al. .......................... 453

Ediacaran (Precordian) Fossils from the Wernecke Mountains, Northwestern Canada: H. J. Hofmann, W. H. Fritz, G. M. Narbonne .................. 455


The Cheetah: Is Depauperate in Genetic Variation: S. J. O’Brien et al. .................. 459

Insulin Receptor Antisera and Plant Lectins Mimic the Direct Effects of Insulin on Nuclear Envelope Phosphorylation: F. Purrello, D. B. Burnham, I. D. Goldfine .................. 462

Calcium-Dependent Stress Maintenance Without Myosin Phosphorylation in Skinned Smooth Muscle: M. Chatterjee and R. A. Murphy .................. 464


Minor Histone 2A Variants and Ubiquinated Forms in the Native H2A:H2B Dimer: C. L. Hatch, W. M. Bonner, E. N. Mouradianakis .................. 468

Fetal Brain Transplants: Reduction of Cognitive Deficits in Rats with Frontal Cortex Lesions: R. Labbe et al. .......................... 470

Effects of Serotonin on Memory Impairments Produced by Ethanol: H. Weingartner et al. .................. 472

Light and Propranolol Suppress the Nocturnal Elevation of Serotonin in the Cerebrospinal Fluid of Rhesus Monkeys: N. A. Garrick et al. .................. 474

Endogenous Inhibitors of Monoamine Oxidase Present in Human Cerebrospinal Fluid: R. E. Becker et al. .......................... 476

Evidence for Olfactory Function in Utero: P. E. Pedersen et al. .................. 478

Accurate Visual Measurement of Three-Dimensional Moving Patterns: J. S. Lappin and M. A. Fuqua .......................... 480

Social Wasps: Discrimination Between Kin and Nonkin Brood: J. E. Klahn and G. J. Gamboa .......................... 482

Technical Comments: Male Firefly Mimicry: J. Copeland; J. E. Lloyd .................. 484

COVER

South African cheetah (Acinonyx juba-tus) and her cubs. The cheetah is the single living member of the genus Acinonyx, and is considered to be markedly divergent from the two other genera of Felidae (Panthera N = 5 species and Felis N = 32± species). The cheetah as a species appears to have suffered a severe population bottleneck followed by inbreeding in its recent natural history as evidenced by an extreme paucity of biochemical genetic variation in modern populations. See page 459. [Ron Kimball, Wildlife Safari Reserve, Winston, Oregon]