LETTERS
A Scientist-Senator on Recombinant DNA Research: H. Schmitt .......................... 106

EDITORIAL
Public and Private Policies for R & D ............................................................ 111

ARTICLES
Quantum Mechanics: The Key to Understanding Magnetism: J. H. Van Vleck .... 113
Irreversible Gene Repression Model for Control of Development: A. I. Caplan and C. P. Ordahl .... 120
Statistical Problems in ESP Research: P. Diaconis ........................................ 131

NEWS AND COMMENT
NATO Builds a Better Battle Tank but May Still Lose the Battle .................. 136
Senate Approves a Permanent Ethics Commission ........................................ 138
Costs of Environmental Regulation Draw Criticism, Formal Assessment .......... 140
DOD Vacillates on Wisconsin Cryptography Work ....................................... 141

RESEARCH NEWS
Climate Control: How Large a Role for Orbital Variations? ............. 144

BOOK REVIEWS
British Weights and Measures, reviewed by J. D. North; Radio Astronomy and Cosmology, H. Spinrad; Genetic Engineering for Nitrogen Fixation, P. S. Carlson; Books Received and Book Order Service .......................... 147

REPORTS
Investigation of Electron Tunneling Between Cytochrome c Peroxidase and Cytochrome c: M. J. Potasek ............................. 151

Monensin and the Prevention of Tryptophan-Induced Acute Bovine Pulmonary Edema and Emphysema: A. C. Hammond, J. R. Carlson, R. G. Breeze .......... 153

Rise and Fall of Cyclic AMP Required for Onset of Lymphocyte DNA Synthesis: T. Wang, J. R. Sheppard, J. E. Foker .................. 155

Microcirculation of the Spleen: An Open or Closed Circulation?: L.-T. Chen .... 157

Serologically Defined (SD) Locus in Cattle: B. Amorena and W. H. Stone .... 159

Loss of Hippocampal Theta Rhythm Results in Spatial Memory Deficit in the Rat: J. Winson ....... ................................. 160

Sex Ratio and Local Resource Competition in a Prosimian Primate: A. B. Clark .... 163

The Stomach Signals Satiety: J. A. Deutsch, W. G. Young, T. J. Kalogeris ........ 165


Evoked Response Correlate of Symbol and Significat: E. Grastyán, E. R. John, F. Bartlett ................................. 168

Long-Term Treatment with Lithium Prevents the Development of Dopamine Receptor supersensitivity: A. Pert et al. ........ 171

Acute Effects of Alcohol on Auditory Brainstem Potentials in Humans: K. C. Squires, N.-S. Chu, A. Starr ................................. 174

Sympathetic Nervous Control of Cerebrospinal Fluid Production from the Choroid Plexus: M. Lindvall, L. Edvinsson, C. Owman ........ 176


PRODUCTS AND MATERIALS

Instrumentation Recorder; High-Performance Liquid Chromatograph;
Automatic Clinical Analyzer; Nephelometer; Thermal Analysis and Mass Spectrometry; Tissue Freeze Dryer; Literature ................................. 184

COVER

Wild six-month-old bush baby (Gale zu crassicaudatus umbrosus) grasps a branch of Acacia woodii from which she has just eaten an insect. Insects and gum from Acacia karroo comprise most of the diet for this population in the Northern Transvaal, South Africa. See page 163. [Anne Barrett Clark, University of California, Davis]