LETTERS
Soviet Environmental Practices: D. Tolmazin; P. R. Pryde

EDITORIAL
The Continuing Relevance of Foundations: R. W. Lyman

ARTICLES
Cadmium-113 Magnetic Resonance Spectroscopy: P. D. Ellis
Methylo trophic Bacteria: Biochemical Diversity and Genetics: C. L. Haber et al.
Arctic Terrestrial Biota: Paleomagnetic Evidence of Age Disparity with Mid-Northern Latitudes During the Late Cretaceous and Early Tertiary: L. J. Hickey et al.

NEWS AND COMMENT
Study Says U.S. Drug Firms Falling Behind
NSF-NBS Merger: Don’t Bet on It
In vitro Fertilization Goes Commercial
Dioxins’ Health Effects Remain Puzzling
Briefing: Exodus from OSTP; New Forum for Criticism of UC–Weapons Labs Link; Texas A&M Gains a Nobel Prizewinner; Charles River Responds to Lawsuit on Impure Mice; French Embassy Gets Social Science Attaché; IOM Launches Study of NIH

RESEARCH NEWS
Cholesterol–Heart Disease Link Illuminated
Where Was the Moon Eons Ago?
Genetic Probes Become Ever Sharper
No Dinosaurs This Time

BOOK REVIEWS
Birth Order, reviewed by R. C. Galbraith; The Visual Display of Quantitative Information and Statistical Graphics, H. C. Morton; The Biology of Nectaries, C. E. Jones; Books Received
REPORTS

Oceanographic Observations of the 1982 Warming of the Tropical Eastern Pacific: *D. Halpern* et al. ...................................................... 1173

Siphonodictidine, a Metabolite of the Burrowing Sponge *Siphonodictyon* sp. That Inhibits Coral Growth: *B. Sullivan, D. J. Faulkner, L. Webb* ................................. 1175


Increased Brain Size and Cellular Content in Infant Rats Treated with an Opiate Antagonist: *I. S. Zagon and P. J. McLaughlin* ........................................ 1179

1,25-Dihydroxyvitamin D$_3$ Receptors in Human Leukocytes: *D. M. Provvedini* et al. .............................................................................. 1181

Altered Activity Patterns During Development Reduce Neural Tuning: *D. H. Sanes and M. Constantine-Paton* ........................................ 1183

Shark Cartilage Contains Inhibitors of Tumor Angiogenesis: *A. Lee and R. Langer* ................................................................. 1185

Functional α$_1$-Protease Inhibitor in the Lower Respiratory Tract of Cigarette Smokers Is Not Decreased: *P. J. Stone* et al. ........................................ 1187

Allometry and Reorganization in Horse Skull Proportions: *L. Radinsky* ............................................................... 1189

Sexual Dimorphism: The Horns of African Antelopes: *C. Packer* ................................................................. 1191

Corollary Discharge Provides Accurate Eye Position Information to the Oculomotor System: *B. L. Guthrie, J. D. Porter, D. L. Sparks* .......................... 1193

Subthreshold Excitatory Activity and Motoneuron Discharge During REM Periods of Active Sleep: *M. H. Chase and F. R. Morales* ........................................ 1195

An Opiate Binding Site in the Rat Brain Is Highly Selective for 4,5-Epoxymorphinans: *J. Grevel and W. Sadee* ............................... 1198

Membrane Changes in a Single Photoreceptor Cause Associative Learning in *Hermissenda*: *J. Farley* et al. ........................................ 1201

Selective Recording and Stimulation of Individual Identified Neurons in Freely Behaving *Aplysia*: *D. W. Parsons, A. ter Maat, H. M. Pinsker* ........................................ 1203

Auditory Intensity Discrimination at High Frequencies in the Presence of Noise: *N. F. Viemeister* .................................................. 1206

Autonomic Nervous System Activity Distinguishes Among Emotions: *P. Ekman, R. W. Levenson, W. V. Friesen* ................................. 1208

COVER

Two male Grant's gazelles (*Gazella granti*) prepare to butt horns (or clash horns) as an adult female walks by. See page 1191. [Craig Packer, University of Chicago, Chicago, Illinois 60637]
Science 221 (4616), 1136-1210.