Letters

Editorial
Luck, Merit, and Peer Review: A. H. Clark

Articles
Size Distribution of Fine Particles from Coal Combustion: M. W. McElroy et al.
Reporting of Faculty Time: An Accounting Perspective: A. L. Thomas

News and Comment
Creationism on the Defensive in Arkansas
New Focus on Replacing Animals in the Lab
Briefing: Small Business R & D Bill Approved 90 to 0; A Reprieve for Planetary Science; Keyworth Says Cuts May Be Good for Science

Research News
New Superconductors for a Supercomputer
A Computer Is More Than Chips
Tracking Genes in Developing Mice
Alzheimer's Research Poses Dilemma

AAAS News
BOOK REVIEWS

Phylogenetics, reviewed by A. G. Kluge; Movable Genetic Elements, L. Rothman-Denes; Essays in General Relativity, R. Wald; The Landforms of Japan, V. R. Baker; The Ferment of Knowledge, R. Rappaport; Books Received ........................................................ 51

REPORTS

Transient Climate Response to Increasing Atmospheric Carbon Dioxide: K. Bryan et al. ........................................................ 56

Copernicus Crater Central Peak: Lunar Mountain of Unique Composition: C. M. Pieters .......................................................... 59


Phagocytosis: Flow Cytometric Quantitation with Fluorescent Microspheres: J. A. Steinkamp et al. .......................................... 64

Serum from Monkeys with Histories of Fetal Wastage Causes Abnormalities in Cultured Rat Embryos: N. W. Klein et al. .............. 66

Reversal of Induced Ischemic Neurologic Deficit in Gerbils by the Opiate Antagonist Naloxone: Y. Hosobuchi, D. S. Baskin, S. K. Woo ....... 69

Epinephrine Reduction of Heme: Implication for Understanding the Transmission of an Agonist Stimulus: D. A. Peterson et al. ......... 71

Preferential Attack of Mitochondrial DNA by Aflatoxin B1 During Hepatocarcinogenesis: B. G. Niranjan, N. K. Bhat, N. G. Avadhani .... 73

Substance P Counteracts Neurotoxin Damage on Norepinephrine Neurons in Rat Brain During Ontogeny: G. Jonsson and H. Hallman .... 75

Pulmonary Blood Plasma Filtration in Reptiles: A “Wet” Vertebrate Lung?: W. W. Burggren ............................................................ 77

Pulmonary Blood Plasma Filtration in Reptiles: A “Wet” Vertebrate Lung?: W. W. Burggren ............................................................ 77

Coupling of Histone and DNA Synthesis in the Somatic Cell Cycle: A. M. Deleageane and A. S. Lee ........................................... 79

β,γ-Peroxy Analogs of Adenosine and Guanosine Triphosphate: Synthesis and Biological Activity: M. S. Rosendahl and N. J. Leonard .... 81

Spray Aiming in Bombardier Beetles: Jet Deflection by the Coanda Effect: T. Eisner and D. J. Aneshansley ......................................... 83

Play Behavior: Persistence, Decrease, and Energetic Compensation During Food Shortage in Deer Fawns: D. Muller-Schwarze, B. Stagg, C. Muller-Schwarze ........................................... 85

Detection of Mutagens in Complex Samples by the Salmonella Assay Applied Directly on Thin-Layer Chromatography Plates: A. Bjørseth et al. ............... 87

COVER

Male fawn of the white-tailed deer (Odocoileus virginianus), 5 weeks old. Fawns of that age derive most of their energy from milk and the remainder from vegetation. They run about 450 meters in a play bout. When deprived of part of their milk, they continue to play, rest more, and compensate by increased grazing. See page 85. [Richard Altieri, P.O. Box 399, Tully, New York 13159]