LETTERS


EDITORIAL

Computerized Psychological Testing: J. D. Matarazzo

ARTICLES

High-Resolution Scanning Transmission Electron Microscopy: A. V. Crewe
Protein Phosphatases: Properties and Role in Cellular Regulation: T. S. Ingebritsen and P. Cohen
Funding More NIH Research Grants: H. G. Mandel

NEWS AND COMMENT

Simon and Kahn versus Global 2000
Briefing: Physicists Nix ISABELLE, Endorse Super Machine; VDT's No Threat to Vision; Bees and Yellow Rain; Impure Mice Draw Legal Complaint; L-Reacto Startup Delayed; NASA to Cooperate with ESA on Space Science
Soviet–U.S. Exchanges Under Scrutiny
Panel Upholds Dismissal of Mosher

RESEARCH NEWS

Number Theory Problem Is Solved
Fermilab Energy Saver Hits 500 GeV
Catalysts That Break Nature's Monopoly

BOOK REVIEWS

The Keeping of Animals, reviewed by B. S. Orlove; Peer Relationships and Social Skills in Childhood and Siblings, M. E. Lamb and L. Zarbatany; Satellites of Jupiter, J. A. Burns; Books Received
REPORTS

An Episode of Steep Geomagnetic Inclination 120,000 Years Ago: K. L. Verosub ........................................................ 359

Entwined and Parallel Bundled Orbits as Alternative Models for Narrow Planetary Ringlets: V. R. Eshleman .................. 361


Depletion of Intracellular Polyamines May Alter DNA Conformation in 9L Rat Brain Tumor Cells: D. T. Hung et al. .................. 368


Metabolic Detoxification: Mechanism of Insect Resistance to Plant Psoralens: G. W. Ivie et al. ................................. 374

Magnesium Deficiency–Induced Spasms of Umbilical Vessels: Relation to Preeclampsia, Hypertension, Growth Retardation: B. T. Altura, B. T. Altura, A. Carella .......................... 376

Clustered Third-Base Substitutions Among Wild Strains of Escherichia coli: R. Milkman and I. P. Crawford .................. 378

Forms of Memory Failure: H. Weingartner et al. .............. 380

Spectral Consequences of Photoreceptor Sampling in the Rhesus Retina: J. I. Yellott, Jr. .................................................. 382

Consequences of Spatial Sampling by a Human Photoreceptor Mosaic: D. R. Williams and R. Collier .............. 385

Macroevolutionary Trends: New Perspectives on the Roles of Adaptation and Incidental Effect: E. S. Vrba .................. 387

Interactions Among Converging Sensory Inputs in the Superior Colliculus: M. A. Meredith and B. E. Stein .............. 389

COVER

Top view of the giant hemoglobin of an earthworm (Lumbricus terrestris). Thirty-six separate molecules were summed in the top view. The diameter is 300 angstroms. The color conversion scale is roughly that of an atlas. The intensity scale black-white is converted into 256 identifiable colors blue-green-yellow-brown-orange-red-purple-white. See page 325. [M. Ohtsuki, Enrico Fermi Institute, University of Chicago, Illinois 60637]