LETTERS

Alternative to Peer Review?: J. C. Liebman; R. L. McCreery; M. R. Kalt; S. S. Easter, Jr.; H. Morawetz; L. S. Jacobs; H. K. Birnbaum; M. W. Berns; R. Roy; Bridge Design: W. Bascom

EDITORIAL

Coal Research

ARTICLES


5-Methylcytosine in Eukaryotic DNA: M. Ehrlich and R. Y.-H. Wang

Allocating Petroleum Products During Oil Supply Disruptions: R. H. Bezdek and W. B. Taylor, Jr.

NEWS AND COMMENT

New A-Bomb Data Shown to Radiation Experts

Hatch Batters NCI with Straus Case

... But Straus Defends Himself in Boston

Gold Pipettes Make for Tight Lips

A Manhattan Project Postscript

Briefing: Nuclear Policy on Hold Until After French Vote; Human Life Bill Aroused More Opposition; World Bank Puts Off Energy Lending Plans; FDA Plans Action on Sodium in Foods; It is Illegal to Say That One Is Sane

RESEARCH NEWS

Angiogenesis Inhibitors Link Many Diseases

Meeting Highlights: Nonmarine Iridium Anomaly Linked to Extinctions; A Hot Spot Found, Another Discarded; Are Ocean Islands/Recycled Ocean Crust?

Let Us Now Praise Famous Boojums

BOOK REVIEWS

The Social Context of Soviet Science, reviewed by H. Balzer; The Dying Community, R. McC. Adams; Animal Tool Behavior, J. B. Lancaster; Photosynthesis, R. Malkin; Books Received

REPORTS

The Mount St. Helens Volcanic Eruption of 18 May 1980: Minimal Climatic Effect: A. Robock
Microwave Radiometric Measurements of Sea Surface Temperature from the Seasat Satellite: First Results: R. Hofer, E. G. Njoku, J. W. Waters

Hydrovolcanic Explosions: The Systematics of Water-Pyroclast Equilibration: M. F. Sheridan and K. H. Wohletz

Soil as a Sink for Atmospheric Carbon Monoxide: G. W. Bartholomew and M. Alexander

1979J3: Discovery of a Previously Unknown Satellite of Jupiter: S. P. Synnott

Melting of Normal Hydrogen Under High Pressures Between 20 and 300 Kelvins: V. Diatschenko and C. W. Chu

Uninfected Cells of Soybean Root Nodules: Ultrastructure Suggests Key Role in Ureide Production: E. H. Newcomb and S. R. Tandon


Improved Detail in Biological Soft X-ray Microscopy: Study of Blood Platelets: R. Feder et al.

Estradiol and Progesterone Profiles Indicate a Lack of Endocrine Recognition of Pregnancy in the Opossum: J. D. Harder and M. W. Fleming

Diethylstilbestrol Induces Neoplastic Transformation Without Measurable Gene Mutation at Two Loci: J. C. Barrett, A. Wong, J. A. McLachlan

Cancer Incidence in the Love Canal Area: D. T. Janerich et al.

Myelination of Central Nervous System Axons in Tissue Culture by Transplanted Oligodendrocytes: F. J. Seil and N. K. Blank

Phase Relationships Between Adjacent Simple Cells in the Visual Cortex: D. A. Pollen and S. F. Ronner

All-Female Fish: A Cryptic Species of Menidia (Atherinidae): A. A. Echelle and D. T. Mosier

Memory Performance of Chemical Workers Exposed to Polybrominated Biphenyls: G. G. Brown et al.

Rapid Eye Movement Storms in Infants: Rate of Occurrence at 6 Months Predicts Mental Development at 1 Year: P. T. Becker and E. B. Thoman


Cover

Edge of a morphologically transformed colony (top) of Syrian hamster embryo cells contrasted with the edge of a normal colony. Morphologically transformed cells, which progress to neoplastic cells, are characterized by disoriented, basophilic cells with a decreased nuclear/cytoplasmic ratio. Transformed colonies are induced by many carcinogens, for example, benzo[a]pyrene and diethylstilbestrol. Diethylstilbestrol, however, transforms the cells without measurable gene mutation at two loci (about × 47). See page 1402. [Chester Reather, Johns Hopkins University, Baltimore, Maryland]