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
Arousing 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

BOARD OF DIRECTORS
FRIDERIC MOSTELLER
D. ALLAN BROMLEY
E. MARGARET BURBIDGE
EDWARD E. DAVID, JR.
NANCIE L. GONZALEZ
FREDERICK MOSTELLER
D. ALLAN BROMLEY
E. MARGARET BURBIDGE
EDWARD E. DAVID, JR.
NANCIE L. GONZALEZ

CHIEF BUSINESS OFFICER
JOHN BLIGHT

PACIFIC DIVISION
T. Neil Davis
Beatrice M. Sweeney
Alan E. Levin
Max P. Dunford
M. Michelle Balcom

SOUTHWESTERN AND ROCKY MOUNTAIN DIVISION

ALASKA DIVISION
EXECUTIVE DIRECTOR
EXECUTIVE SECRETARY

SCIENCE is published weekly on Friday, except the last week in December, by the American Association for the Advancement of Science, 1515 Massachusetts Avenue, NW, Washington, D.C. 20005. Second-class postage (publication No. 484460) paid at Washington, D.C., and at an additional entry. Now combined with The Science Monthly: Copyright © 1981 by the American Association for the Advancement of Science. Domestic individual membership and subscription (51 issues): $43. Domestic institutional subscription (51 issues): $80. Foreign postage extra: Canada $24, other (surface mail) $27, air-service via Amsterdam $65. First class, airmail, school-year, and student rates on request. Single copies $2 ($2.50 by mail); back issues $3 ($3.50 by mail); classroom rates on request. Change of address: allow 6 weeks, giving old and new addresses and seven-digit account number. Postmaster: Send Form 3579 to Science, 1515 Massachusetts Avenue, NW, Washington, D.C. 20005. Science is indexed in the Reader's Guide to Periodical Literature and in several specialized indexes.
Microwave Radiometric Measurements of Sea Surface Temperature from the Seasat Satellite: First Results: R. Hofer, E. G. Njoku, J. W. Waters

1385

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

1387

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

1389

19793: Discovery of a Previously Unknown Satellite of Jupiter: S. P. Synnott

1392

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

1393

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

1394


1397

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

1398

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

1400

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

1402

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

1404

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

1407

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

1409

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

1411

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

1413

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

1415


1416

The American Association for the Advancement of Science was founded in 1848 and incorporated in 1874. Its objects further the work of scientists, to facilitate cooperation among them, to foster scientific freedom and responsibility, to increase public understanding and appreciation of the importance and promise of the methods of science in human progress.

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, benz[a]pyrene and diethylstilbestrol. Diethylstilbestrol, however, transforms the cells without measurable gene mutation at two loci (about \times 47). See page 1402. [Chester Reather, Johns Hopkins University, Baltimore, Maryland]
Editor's Summary

This copy is for your personal, non-commercial use only.

Article Tools
Visit the online version of this article to access the personalization and article tools:
http://science.sciencemag.org/content/212/4501.citation

Permissions
Obtain information about reproducing this article:
http://www.sciencemag.org/about/permissions.dtl