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

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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
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RESEARCH NEWS  Angiogenesis Inhibitors Link Many Diseases
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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

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 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.

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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 X 47). See page 1402. [Chester Reath, Johns Hopkins University, Baltimore, Maryland]