LETTERS

Estimating the Greenhouse Effect: A. M. Perry;
Cancer Prevention: Setting Priorities: G. S. Bailey; D. P. Rall; M. C. Weinstein; The Cover's Message: M. O'Hare

EDITORIAL

Bypassing Peer Review for Scientific Facilities: E. Friedl

ARTICLES

Global Deforestation: Contribution to Atmospheric Carbon Dioxide: G. M. Woodwell et al.

Waterlogged Molecules: R. Wolfenden

Synthesis of Kappa Light Chains by Cell Lines Containing an 8:22 Chromosomal Translocation Derived from a Male Homosexual with Burkitt’s Lymphoma: I. Magrath et al.

NEWS AND COMMENT

After Spacelab, Europe Wants a Better Deal

NSF Seeks Expanded Role in Engineering

Briefing: How to Transplant Biomedical Research; Business to Boost R & D;

WIPP Goes Ahead, Amid Controversy

Lots of Talk About LD50

RESEARCH NEWS

The Carbon Cycle and Climate Warming

Organizing the Cytoplasm

Origin of Species in Stressed Environments
**BOOK REVIEWS**

- Landmarks of Botanical History, reviewed by L. Constance; A Territorial Antelope, A. R. E. Sinclar; Cellular Systems for Toxicity Testing, M. Water; Membrane Potential–Dependent Ion Channels in Cell Membrane, M. S. Brodwick; The Mathematical Theory of Black Holes, S. Teukolsky; The Big Bang and Element Creation, E. Kolb; Books Received ......... 1113

**REPORTS**

- Iridium Enrichment in Airborne Particles from Kilauea Volcano: January 1983: W. H. Zoller, J. R. Parrington, J. M. Phelan Kotra 1118
- Onshore-Offshore Patterns in the Evolution of Phanerozoic Shelf Communities: D. Jablonski et al. 1123
- Productive Infection and Cell-Free Transmission of Human T-Cell Leukemia Virus in a Nonlymphoid Cell Line: P. Clapham et al. 1125
- Effect of Prior Immunization on Induction of Cervical Cancer in Mice by Herpes Simplex Virus Type 2: W. B. Wentz et al. 1128
- Monoclonal Antibodies to a Synthetic Fibrin-Like Peptide Bind to Human Fibrin but Not Fibrinogen: K. Y. Hui, E. Haber, G. R. Matsueda 1129
- α-Difluoromethylornithine-Induced Polyamine Depletion of 9L Tumor Cells Modifies Drug-Induced DNA Cross-Link Formation: P. J. Tofilon, D. F. Deen, L. J. Marton 1132
- Human Trophoblast-Lymphocyte Cross-Reactive (TLX) Antigens Define a New Alloantigen System: J. A. McIntyre et al. 1135
- Dynorphin-A-(1–8) Is Contained Within Vasopressin Neurosecretory Vesicles in Rat Pituitary: M. H. Whitnall et al. 1137
- Dietary Chloride as a Determinant of “Sodium-Dependent” Hypertension: T. W. Kurtz and R. C. Morris, Jr. 1139
- X-ray–Induced Breakage and Rejoining of Human Interphase Chromosomes: M. N. Cornforth and J. S. Bedford 1141
- Transformation of Bloom’s Syndrome Fibroblasts by DNA Transfection: J. Doniger, J. A. Di Paolo, N. C. Popescu 1144

**COVER**
