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 ................................................................. 1072

EDITORIAL  Bypassing Peer Review for Scientific Facilities:  E. Friedl ................................................................. 1079

ARTICLES  Global Deforestation:  Contribution to Atmospheric Carbon Dioxide:  G. M. Woodwell et al ................................................................. 1081
Waterlogged Molecules:  R. Wolfenden ................................................................. 1087
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 ................................................................. 1094

NEWS AND COMMENT  After Spacelab, Europe Wants a Better Deal ................................................................. 1099
NSF Seeks Expanded Role in Engineering ................................................................. 1101
Briefing:  How to Transplant Biomedical Research;  Business to Boost R & D;  Sag in the Market for Scientists, Engineers ................................................................. 1103
WIPP Goes Ahead, Amid Controversy ................................................................. 1104
Lots of Talk About LD50 ................................................................. 1106

RESEARCH NEWS  The Carbon Cycle and Climate Warming ................................................................. 1107
/ Organizing the Cytoplasm ................................................................. 1109
Origin of Species in Stressed Environments ................................................................. 1112
BOOK REVIEWS

Landmarks of Botanical History, reviewed by L. Constance; A Territorial Antelope, A. R. E. Sinclair; Cellular Systems for Toxicity Testing, M. Waterman; 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


Onshore-Offshore Patterns in the Evolution of Phanerozoic Shelf Communities: D. Jablonski et al. ................................................................. 1123


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

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/222/4628.citation](http://science.sciencemag.org/content/222/4628.citation)

**Permissions**  
Obtain information about reproducing this article:  
[http://www.sciencemag.org/about/permissions.dtl](http://www.sciencemag.org/about/permissions.dtl)