### Editorial
1403  This Week in Science

### Perspective
1405  For Whom the Bell Tolls

### Letters
1407  Disturbed by Meta-Analysis?: K. W. Wachter
1413  Scientific Evidence: W. E. Wagner; J. F. Ahearne; B. Black ■ Mathematics Achievement: L. G. Humphreys; J. C. Stanley

### News & Comment
1423  White House Wants Fetal Research Ban
1424  Krasnoyarsk Casts Long Shadow Over Arms Talks
1425  Applied R&D Key for U.S. Trade
1426  FDA Looks to Speed Up Drug Approval Process
1427  NIH Budget Boost Mostly for AIDS
1428  China Launch Gets Nod
1429  Political Pressure Behind Dukakis Switch on Space

### Research News
1430  Wishbones on Display
1431  A Heresy in Evolutionary Biology
1432  Evidence Uncovered for a Second Alzheimer's Gene
1433  Hip Joints: A Clue to Bipedalism
1434  Bird Brain Switch Leads to New Song
1436  National Academy Looks at Computing's Future
1437  Random Samples: Author Proliferation ■ Going the Extra Meter ■ A New Fellowship in the Making

### Articles
1441  How Many Species Are There on Earth?: R. M. May
1449  The Ecological Context of Life History Evolution: L. Partridge and P. H. Harvey
1455  Genetics and Demography in Biological Conservation: R. Lande
1460  Recruitment Dynamics in Complex Life Cycles: J. Roughgarden, S. Gaines, H. Possingham

### Research Articles
1467  A Chemoattractant Receptor Controls Development in Dictyostelium discoideum: P. S. Klein, T. J. Sun, C. L. Saxe III, A. R. Kimmel, R. L. Johnson, P. N. Devreotes

---

**SCIENCE** is published weekly on Friday, except the last week in December, and with an extra issue in February by the American Association for the Advancement of Science, 1333 H Street, NW, Washington, DC 20005. Second-class postage (publication No. 484468) paid at Washington, DC, and at an additional entry. Now combined with *The Scientific Monthly*. Copyright © 1988 by the American Association for the Advancement of Science. The title *SCIENCE* is a trademark of the AAAS. Domestic individual membership and subscription (51 issues): $70. Domestic institutional subscription (51 issues): $110. Foreign postage extra: Canada $32, other (surface mail) $32, air-surface via Amsterdam $85. First class, airmail, school-year, and student rates on request. Single copies $3.00; back issues $5.00; Biotechnology issue, $5.50 ($6 by mail); classroom rates on request. Guide to Biotechnology Products and Instruments $16 ($17 by mail). Change of address: allow 6 weeks, giving old and new addresses and seven-digit account number. Authorization to photocopy material for internal or personal use under circumstances not falling within the fair use provisions of the Copyright Act is granted by AAAS to libraries and other users registered with the Copyright Clearance Center (CCC) Transactional Reporting Service, provided that the base fee of $1 per copy plus $0.10 per page is paid directly to CCC, 21 Congress Street, Salem, Massachusetts 01970. The identification code for Science is 0036-8075/88 $1 + .10. Postmaster: Send Form 3579 to Science, 1333 H Street, NW, Washington, DC 20005. Science is indexed in the Reader's Guide to Periodical Literature and in several specialized indexes.

**The American Association for the Advancement of Science was founded in 1848 and incorporated in 1874. Its objects are to further the work of scientists, to facilitate cooperation among them, to foster scientific freedom and responsibility, to improve the effectiveness of science in the promotion of human welfare, and to increase public understanding and appreciation of the importance and promise of the methods of science in human progress.**
The Role of Biogenic Hydrocarbons in Urban Photochemical Smog: Atlanta as a Case Study: W. L. Chameides, R. W. Lindsay, J. Richardson, C. S. Kiang


Nef Protein of HIV-1 Is a Transcriptional Repressor of HIV-1 LTR: N. Ahmad and S. Venkatesan

An Origin Unwinding Activity Regulates Initiation of DNA Replication During Mammalian Cell Cycle: J. M. Roberts and G. D'Urso


Virus-Specific Splicing Inhibitor in Extracts from Cells Infected with HIV-1: D. Gutman and C. J. Goldenberg


Symmetrical Erosive Peripheral Polyarthritis in the Late Archaic Period of Alabama: B. M. Rothschild, K. R. Turner, M. A. DeLuca

Antiproliferative Activity of a Hybrid Protein Between Interferon-γ and Tumor Necrosis Factor-β: G.-S. Feng, P. W. Gray, H. M. Shepard, M. W. Taylor


AAAS Science and Security Colloquium ■ Advance Registration and Housing Form

Issues in Contemporary Retirement, reviewed by J. H. Schulz ■ U.S.-Soviet Security Cooperation, R. L. GARTHOF ■ Some Other Books of Interest ■ Books Received

Electron Microscope ■ Vector Removal System ■ Gene CD-ROM Database Computing Integrator ■ Titanium Pump for Chromatography ■ DNA Sequencing System ■ Peptide Synthesizer ■ Literature
Science 241 (4872), 1403-1531.