**Editorial**

1705 Molecule of the Year

**Molecule of the Year**


**Letters**

1710 The Human Genome Project and Patents: H. CURIEN; The Human Genome Committee and Board of Directors ■ Respect for Vitamin C: L. PAULING; G. BLOCK

**ScienceScope**

1715 A new AIDS drug moves toward testing; DOE physics gets a budget reprieve; etc.

**News & Comment**

1716 Soviet Science: A Struggle for Survival ■ The Academy Under Siege ■ SOS: Save Our Science

1719 Breast Cancer: Stalemate In the War on Cancer

1720 Canadian Biotech Regs Under Fire

1721 Fight Erupts Over DNA Fingerprinting ■ Was Science Fair to its Authors?


**Research News**

1726 On the Track of an Elusive Disease

1728 A “Jumping Gene” Caught in the Act

1729 HIV Risk Higher for First-Born Twins

1730 Feverish Materialism in Snowy Boston: Fullerenes Still in Prime Time ■ This SQUID Ain’t Sushi ■ Silicon’s Light Touch, Continued

1732 A Lofty Idea for Atmospheric Research

**Perspective**

1735 The Utility of DNA Typing in Forensic Work: R. CHAKRABORTY and K. K. KIDD

**Articles**

1740 Foreign Direct Investment in the United States and U.S. Interests: E. M. GRAHAM

1745 Population Genetics in Forensic DNA Typing: R. C. LEWONTIN and D. L. HARTL

1750 Oscillatory Kinetics and Spatio-Temporal Self-Organization in Reactions at Solid Surfaces: G. ERTL

**Research Articles**


**Reports**

1768 Fullerenes Isomerism: Isolation of C_{2n-C_{2θ}} and D_{2n-C_{2θ}}: F. DIEDERICH, R. L. WHETTEN, C. THILGEN, R. ERTL, I. CHAO, M. M. ÁLVAREZ


---

*SCIENCE (SSN 0036-8075) is published weekly on Friday, except the last week in December, by the American Association for the Advancement of Science, 1333 H Street, NW, Washington, DC 20005. Second-class postage (publication No. 444460) paid at Washington, DC, and additional mailing offices. Copyright © 1991 by the American Association for the Advancement of Science. The title SCIENCE is a registered trademark of the AAAS. Domestic individual membership and subscription (51 issues): $62 ($47 allocated to subscription). Domestic institutional subscription (51 issues): $150. Foreign postage extra: Mexico, Caribbean (surface mail) $50; Other countries (air assist delivery) $65. First class, airmail, student and emeritus rates on request. Canadian rates with GST available upon request, GST #1254 86122. Change of address: allow 6 weeks, giving old and new addresses and 11-digit account number. Postmaster: Send change of address to Science, P.O. Box 2000, Marion, OH 43305-2033. Single copy sales: $6.00 per issue prepaid includes surface postage: Guide to Biotechnology Products and Instruments, $20. Bulk rates on request. 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 others 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, 27 Congress Street, Salem, Massachusetts 01970. The identification code for Science is 0036-8075/83 $1 + .10. 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 objectives 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, to advance education in science, and to increase public understanding and appreciation of the importance and promise of the methods of science in human progress.
1776 Identification and Characterization of Zinc Binding Sites in Protein Kinase C: S. R. Hubbard, W. R. Bishop, F. Kirschmeier, S. J. George, S. P. Cramer, W. A. Hendrickson


1788 Low Affinity Interaction of Peptide-MHC Complexes with T Cell Receptors: K. Matsui, J. J. Boniface, P. A. Reay, H. Schied, B. Fazekas De St. Grotth, M. D. Davis


1794 Inhibition of Rap1A Binding to Cytochrome b555 of NADPH Oxidase by Phosphorylation of Rap1A: G. M. Bokoch, L. A. Quilliam, B. P. Bohl, A. J. Jesatiss, M. T. Quinn

1797 Chloride Conductance Expressed by AF508 and Other Mutant CFTRs in Xenopus Oocytes: M. L. Drum, D. J. Wilkinson, L. S. Smitt, R. T. Worrell, T. V. Strong, R. A. Frizzell, D. C. Dawson, F. S. Collins

1799 Inhibition of HIV Replication in Acute and Chronic Infections in Vitro by a Tat Antagonist: M.-C. Hsu, A. D. Schutt, M. Holly, L. W. Slice, M. I. Sherman, D. D. Richman, M. J. Potash, D. J. Volksky


1808 Reverse Transcriptase Encoded by a Human Transposable Element: S. L. Mathias, A. F. Scott, H. H. Kazazian, Jr., J. D. Boeke, A. Gabriel


Inside AAAS

1818 Beyond Devils and Angels: The National Conference of Lawyers and Scientists • 1992 Election Results • Science-By-Mail • Barnard Scholarship

Book Reviews

1820 Manufacturing Knowledge, reviewed by W. Finlay • Southern Hunting in Black and White, P. F. Bartlett • The San Andreas Fault System, California, S. Ward • Reprints of Books Previously Reviewed • Books Received

Products & Materials

1826 Microcentrifuge Filtration Devices • Chromatographic Simulation Software • Fiberglass Tissue Culture Enclosure • Monoclonal Antibodies • Tissue Slicer • Semi-Dry Electroblotters • Literature

Author Index for Volume 254 is on pages 1848-1858

Cover Electron distribution in C60 (buckminsterfullerene) at 1000 kelvin (foreground: diameter, 7.1 angstroms), obtained from quantum molecular dynamics simulations. The colors yellow, green, and blue denote regions of successively greater electron density. The atomic structure of C60 (background) consists of five- and six-memberd rings arranged in the shape of a soccer ball. See Editorial, page 1705, and Molecule of the Year, page 1706. [Simulations and image by J. Bernholc, Q.-M. Zhang, J.-Y. Yi, and C. Brabec, North Carolina State University, and T. Palmer, North Carolina Supercomputing Center]
254 (5039)

Science 254 (5039), 1703-1826.

ARTICLE TOOLS
http://science.sciencemag.org/content/254/5039

PERMISSIONS
http://www.sciencemag.org/help/reprints-and-permissions