1703 This Week in Science

**Editorial**

1705 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?
1724 *Briefings:* Britannia in the Doghouse ■ Accounting for the Environment ■ Beryllium Disease ■ Radar Gun Hazards? ■ Computer Moguls Slam Data Plan ■ Seal Tests ■ More on Vitamin C

**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 Fullerene Isomerism: Isolation of C_{2n-C_{2n}} and D_{2n-C_{2n}}: F. DIEDERICH, R. L. WHETTEN, C. THILGEN, R. ETTL, I. CHAO, M. M. ALVAREZ
1773 A Fungal Gene for Antibiotic Resistance on a Dispensable (“B”) Chromosome: V. P. MLAO, S. F. COVERT, H. D. VANDETEN
Identification and Characterization of Zinc Binding Sites in Protein Kinase C
1776
S. R. Hubbard, W. R. Bishop, F. Krischmeier, S. J. George, S. P. Cramer, W. A. Hendrickson

Novel Fold and Putative Receptor Binding Site of Granulocyte-Macrophage
1779
Colonystimulating Factor: K. Diederichs, T. Boone, P. A. Karplus

Maintenance of Normoglycemia in Diabetic Mice by Subcutaneous Xenografts of
1782

Regulation of Phagocytosis and [Ca2+] Flux by Distinct Regions of an Fc Receptor:
1785

Low Affinity Interaction of Peptide-MHC Complexes with T Cell Receptors: K. Matsui,
1788
J. Boniface, P. A. Ray, H. Scheld, B. Fazeres de St. Groth, M. M. Davis

Identification of a Zinc Finger Protein That Inhibits IL-2 Gene Expression:
1791

Inhibition of Rap1A Binding to Cytochrome b556 of NADPH Oxidase by Phosphorylation
1794
of Rap1A: G. M. Bokoch, L. A. Quilliam, B. P. Bohl, A. J. Jesatis, M. T. Quinn

Chloride Conductance Expressed by AF508 and Other Mutant CFTRs in Xenopus Oocytes:
1797

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

Long-Term Improvement of Hypercholesterolemia After ex Vivo Gene Therapy in
1802

Isolation of an Active Human Transposable Element: B. A. Dombroski, S. L. Mathias,
1805

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

Pharmacological Dissociation of Modulatory Effects of Serotonin in Aplysia Sensory
1811
Neurons: A. R. Mercer, N. J. Empetage, T. J. Carew

Mitotic Phosphorylation of the Oct-1 Homeodomain and Regulation of Oct-1 DNA
1814
Binding Activity: N. Segil, S. B. Roberts, N. Heinitz

Inside AAAS

Book Reviews

Products & Materials

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

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-membered 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]