This Week in Science

Molecule of the Year


Letters

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

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

News & Comment

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

Breast Cancer: Stalemate In the War on Cancer

Canadian Biotech Regs Under Fire

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

Briefings: Britannica 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

On the Track of an Elusive Disease

A "Jumping Gene" Caught in the Act

HIV Risk Higher for First-Born Twins

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

A Lofty Idea for Atmospheric Research

Perspective

The Utility of DNA Typing in Forensic Work: R. Chakraborty and K. K. Kidd

Articles

Population Genetics in Forensic DNA Typing: R. C. Lewontin and D. L. Hartl

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

Research Articles

Linkage of Faulty Major Histocompatibility Complex Class I to Autoimmune Diabetes: D. Faustman, X. Li, H. Y. Lin, Y. Fu, G. Elsenbaehr, J. Avruch, J. Guo


Reports

Fullerene Isomerism: Isolation of C2v-C78 and D2h-C78: F. Diederich, R. L. Whetten, C. Thilgen, R. Ettl, I. Chao, M. M. Alvarez

Long-Term Mean Vertical Motion over the Tropical Pacific: Wind-Profiling Doppler Radar Measurements: K. S. Gage, J. R. McAfee, D. A. Carter, W. L. Ecklund, A. C. Riddle, G. C. Reid, B. B. Balsley

A Fungal Gene for Antibiotic Resistance on a Dispensable ("B") Chromosome: V. P. Miao, S. F. Covert, H. D. VanEtten
1776 Identification and Characterization of Zinc Binding Sites in Protein Kinase C: S. R. Hubbard, W. R. Bishop, F. Kirshmeier, S. J. George, S. P. Cramer, W. A. Hendrickson


1785 Regulation of Phagocytosis and [Ca^{2+}] Flux by Distinct Regions of an Fc Receptor: J. A. Odin, J. C. Edberg, C. J. Painter, B. P. Kimberly, J. C. Unkeless


1794 Inhibition of Rap1A Binding to Cytochrome b556 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. Drumm, D. J. Wilkinson, L. S. Smith, 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. Richard, M. J. Potoshi, D. J. Volsky


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


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

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