This Week in Science

Editorial

TPA and PDQ

Letters

Uranium Enrichment: B. J. Hull ■ Indictment of Soviet Physicist: G. C. Vezzoli ■ Is Female Math Anxiety Real?: S. L. Segal

News & Comment

Congress Considers Upgrading Labs
Pork Barrel Unbound?
Corporations on Campus
Foreign Investors Outstrip U.S.
AIDS and Insects
Some Refuseniks See No Glasnost
Briefing: SSC Deadline Extended ■ “Greens” Challenge French Gene Research ■ France to Boost Research Spending

Research News

Who Owns the Human Genome?
A Younger Universe Is Seen in the Stars
New Tumor Factor May Disrupt Calcium Levels

Articles

The Shapes of Random Walks: J. Rudnick and G. Gaspari

Research Articles

The 30-Kilodalton Gene Product of Tobacco Mosaic Virus Potentiates Virus Movement: C. M. Deom, M. J. Oliver, R. N. Beachy
Engineering Enzyme Specificity by “Substrate-Assisted Catalysis”: P. Carter and J. A. Wells

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339 This Week in Science

341 TPA and PDQ

349 Uranium Enrichment: B. J. Hull ■ Indictment of Soviet Physicist: G. C. Vezzoli ■ Is Female Math Anxiety Real?: S. L. Segal

351 Congress Considers Upgrading Labs
352 Pork Barrel Unbound?
353 Corporations on Campus
354 Foreign Investors Outstrip U.S.
355 AIDS and Insects
356 Some Refuseniks See No Glasnost
357 Briefing: SSC Deadline Extended ■ “Greens” Challenge French Gene Research ■ France to Boost Research Spending

358 Who Owns the Human Genome?
361 A Younger Universe Is Seen in the Stars
363 New Tumor Factor May Disrupt Calcium Levels

384 The Shapes of Random Walks: J. Rudnick and G. Gaspari

389 The 30-Kilodalton Gene Product of Tobacco Mosaic Virus Potentiates Virus Movement: C. M. Deom, M. J. Oliver, R. N. Beachy
394 Engineering Enzyme Specificity by “Substrate-Assisted Catalysis”: P. Carter and J. A. Wells
Fragile X–bearing somatic cell hybrids cultured under positive selection for hypoxanthine guanine phosphoribosyl transferase (HGPRT) followed by in situ histochemical staining for glucose-6-phosphate dehydrogenase (G6PD) activity. The G6PD⁺ (blue) and G6PD⁻ (yellow) colonies indicate segregation of the HGPRT and G6PD genes, suggesting chromosome breakage at the fragile X site. See page 420. [Photo by S. T. Warren, Emory University School of Medicine, Atlanta, GA 30322]