This Week in Science

Testing for Carcinogens with Rodents


Magnet Lab Decision Repels MIT
Genetic Privacy Makes Strange Bedfellows
OTA Peers into Cancer Therapy Fog
Zebra Mussel Invasion Threatens U.S. Waters • Why Do Some Invasions Succeed?
Massey Named to Head NSF
Gene Therapy Begins
Stanford Under Investigation
Anthropology Goes Back to Ethiopia

Briefings: NIH Adjusts Attitudes Toward Women • Hubble Sees a Supernova • Hopping Laser Angioplasty • Salahuddin Pleads Guilty • Social and Anti-Social Science • Richest U.S. Science Prize • Academy Tries No-Fault Defense

Oncogenes Evoke New Cancer Therapies
Bombesin Receptor Gene Cloned
Electromagnetic Fields: The Biological Evidence
Face to Face with EMFs
Computer Viruses—Eternal Plague

Atmospheric Carbon Dioxide Levels Over Phanerozoic Time: R. A. Berner
State- and Bond-Selected Unimolecular Reactions: F. F. Crim

Simple Dynamical Models of Neptune's Great Dark Spot: L. M. Polvani, J. Wisdom, E. De Jong, A. P. Ingersoll
Structure of Ribonuclease H Phased at 2 Å Resolution by MAD Analysis of the Selenomethionyl Protein: W. Yang, W. A. Hendrickson, R. J. Crouch, Y. Satow

1409 Rapid Determination of the Critical Temperature in Simulated Annealing Inversion: A. Basu and L. N. Frazer

1412 Forecasting Damaging Earthquakes in the Central and Eastern United States: S. P. Nishenko and G. A. Bollinger

1416 No Excess of Homozygosity at Loci Used for DNA Fingerprinting: B. Devlin, N. Risch, K. Roeder


1423 An Insertion in the Human Thyrotropin Receptor Critical for High Affinity Hormone Binding: H. L. Wadsworth, G. D. Chazenbalk, Y. Nagayama, D. Russo, B. Raupp

1425 Anatomy of a Conformational Change: Hinged "Lid" Motion of the Triosephosphate Isomerase Loop: D. Joseph, G. A. Petsko, M. Karplus


1431 CD14, a Receptor for Complexes of Lipopolysaccharide (LPS) and LPS Binding Protein: S. D. Wright, R. A. Ramos, P. S. Tobis, R. J. Ulevitch, J. C. Mathison

1433 Acceleration of Diabetes in Young NOD Mice with a CD4+ Islet-Specific T Cell Clone: K. Haskins and M. McDuffie


1438 Notch, the Xenopus Homolog of Drosophila Notch: C. Coffman, W. Harris, C. Kintner

1441 Calmodulin Activation of Calcium-Dependent Sodium Channels in Excised Membrane Patches of Paramecium: Y. Saimi and K.-Y. Ling

1444 Birth of Projection Neurons in Adult Avian Brain May Be Related to Perceptual or Motor Learning: A. Alvarez-Buylla, J. R. Kirn, F. Nottebohm

Book Reviews

1447 Reflections on Liquid Helium, reviewed by D. L. Goodstein

The Mathematics of Projectiles in Sport, P. J. Brancato

Dynamics of Dense Stellar Systems, L. M. Ozerney

The Ecology of Bird Communities, B. A. Maurer

Books Received

Products & Materials

1451 Vibration-Damping Mount

UNIX Version of Math Software

Fiber Optic Light Sources

Data Acquisition and Graphics Software

Clean-Room Telephone

Mass Spectrometers

Nonradioactive RNA Labeling Kit

Literature