This Week in Science

Hydrocarbon Energy Revisited

A Common Language for Physical Mapping of the Human Genome: M. Olson, L. Hood, C. Cantor, D. Botstein


New Game Plan for Genome Mapping
Conflict Over Conflict of Interest
Baltimore to Succeed Lederberg?
Deficit Woes Cloud Research Funding
The Sports Stars of UCSF
NIDA Aims to Fight Drugs with Drugs • Magic Bullets for Addiction?
The Epilepsy "Cure": Bold Claims, Weak Data

Tracing Hormone Action in the Cell • Lasker Award Goes to Four Signal Scientists
Brookhaven Chemists Find New Fusion Method
Materials Research for the 1990s
The Neptune System in Voyager's Afterglow: Neptune's Fast Spin Means Trouble for All • Two Odd Magnetic Fields Is One Too Many • Voyager Finds Rings in Need of Rejuvenation
New Graphics Program Debuts in Concert Hall
Briefings: Japan Acts on Elephants, Dolphins • Psychiatrists Oppose Soviets • Goskompriroda and Glasnost • BU Takes Over School District

Pre-Mesozoic Palinspastic Reconstruction of the Eastern Great Basin (Western United States): M. Levy and N. Christie-Blick
The Photosynthetic Reaction Center from the Purple Bacterium Rhodopsseudomonas viridis: J. Deisenhofer and H. Michel

Reports

1481 An Empirical Model for Predicting Diffusion Coefficients in Silicate Minerals: S. M. Fortier and B. J. Giletti
1484 Interdecadal Variation in an Antarctic Sponge and Its Predators from Oceanographic Climate Shifts: P. K. Dayton
1490 Identification of Monocyte Chemotactic Activity Produced by Malignant Cells: D. T. Graves, Y. L. Jiang, M. J. Williamson, A. J. Valente
1493 COOH-Terminal-Modified Interleukin-3 Is Retained Intracellularly and Stimulates Autocrine Growth: C. E. Dunbar, T. M. Browder, J. S. Abrams, A. W. Niethuius
1496 Transformation by v-sis Occurs by an Internal Autoactivation Mechanism: B. E. Bejcek, D. Y. Li, T. F. Deuel
1499 Mechanism of Membrane Anchoring Affects Polarized Expression of Two Proteins in MDCK Cells: D. A. Brown, B. Crise, J. K. Rose
1502 Effects of Glucocorticoids and Norepinephrine on the Excitability in the Hippocampus: M. Joels and E. R. de Kloet
1509 Postponement of Satiety by Blockade of Brain Cholecystokinin (CCK-B) Receptors: C. T. Dourish, W. Rycroft, S. D. Iversen

Book Reviews

1514 Evolutionary History of the “Robust” Australopithecines, reviewed by G. P. Rightmire ▪ Carnivore Behavior, Ecology, and Evolution, A. E. Pusey ▪ Fractals, P. Meakin ▪ Hamiltonian Systems, E. Ott ▪ Books Received

Author Index to Volume 245 is found on pages I–X.
Information for Contributors is found on XI–XII.