This Week in Science

Editorial

The Biotechnology Issue

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Letters

Hazy Picture of Chernobyl Emerging ■ Soviets Buy Robots
AAAS Meeting Briefings: Researchers Found Reluctant to Test Theories ■ MIT President Attacks Federal Research Priorities ■ U.S. Official Defends SALT II Decision
IOM Elects New Members
After Challenger: Painful Choices
Soviet, U.S. Scientists Reach Seismic Agreement
Briefing: Litigation Causes Huge Price Increases in Childhood Vaccines ■ Space Commission Sets Goals for 21st Century ■ Field Test of Altered Microbe Still in Limbo . . . ■ ■ . . . While First Outdoor Test of Engineered Plant Begins ■ Ariane Failure Hits Europe's Space Efforts

Research News

Nerve Growth Factor Acts in the Brain
The New Look of Halley Is Black and Lumpy
Steroids May Influence Changes in Mood
Briefing: The Ocean's Deserts Are Blooming

Biotechnology Issue

University-Industry Research Relationships in Biotechnology: Implications for the University: D. Blumenthal, M. Gluck, K. S. Louis, M. A. Stoto, D. Wise
Biotechnology in Europe: M. D. Dibner
The Application of Bone Marrow Transplantation to the Treatment of Genetic Diseases: R. Parkman
Lesser-Known Plants of Potential Use in Agriculture and Forestry: N. D. Vietmeyer
Rapid-Cycling Populations of Brassica: P. H. Williams and C. B. Hill
Large-Scale Cell Culture in Biotechnology: W. R. Arathoon and J. R. Birch
Two sides of biotechnology. (Background) Large-scale cell culture has become a multimillion dollar industry, vital to the manufacture of vaccines, monoclonal antibodies, and other pharmaceutical products [1000-liter fermenter, courtesy of Celltech Ltd., Slough SL1 4DX, United Kingdom]. (Foreground) By selective breeding in the laboratory, rapid-cycling *Brassica campestris* plants have been developed that will be useful in basic research, in improving crop production, and as educational tools. See page 1385. [Paul H. Williams, University of Wisconsin, Madison, WI 53706]


**Reports**

1404 High-Pressure Ruby and Diamond Fluorescence: Observations at 0.21 to 0.55 Terapascal: J. A. Xu, H. K. Mao, P. M. Bell


1408 Methylcyclopentanoid Monoterpenes Mediate Interactions Among Insect Herbivores: M. J. Raupe, F. R. Milan, F. Barbosa, B. A. Leonhardt

1410 Binding of the Sp1 Transcription Factor by the Human Harvey rasI Proto-oncogene Promoter: S. Ishii, J. T. Kadonaga, R. Tian, J. N. Brady, G. T. Merlino, I. Pastan

1413 The Role of Chloride Transport in Postsynaptic Inhibition of Hippocampal Neurons: U. Misgeld, R. A. Deisz, H. U. Doty, H. D. Lux

1415 Identification of a Missense Mutation in the Factor VIII Gene of a Mild Hemophilia: J. Gitschier, W. I. Wood, M. A. Shuman, R. M. Lawn

1417 Oxytocin Secretion in Response to Cholecystokinin and Food: Differentiation of Nausea from Satiety: J. G. Verbalis, M. J. McCann, C. M. McHale, E. M. Stricker

1419 Synthetic Diamond as a Pressure Generator: A. Onodera, K. Furuno, S. Yazu


**Book Reviews**


**Products & Materials**

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