NEWS & COMMENT

The Klausner Revolution 1328
NCI: A Lab Scientist's View, From the Director's Office 1329
Pilot Study Teaches NSF Costly Lesson 1331
Japan's R&D Budget: Proposed Increases Follow 5-Year Plan 1332
South Africa: New Minister Picks Up the Baton 1333
NASA Scales Back Science on Station 1333

RESEARCH NEWS

A New Look at Maternal Guidance 1334
Structure of Gene-Tag Protein Solved 1336
New Source Proposed for Most Common Meteorites 1337
Plants, Like Animals, May Make Use of Peptide Signals 1338
Probing Flowers' Genetic Past 1339
Viewing Velvet Worms in Amber 1340

DEPARTMENTS

THIS WEEK IN SCIENCE 1313
EDITORIAL
The Reality of Science Funding 1319
P. V. Domenici
LETTERS
Teaching Evolution: J. Harvey; P. P. Craig; P. R. Gross; S. J. Madigan • Charges of Anti-Semitism: J. Hartung • Tobacco Research: One Researcher's Experience: F. Homburger • Chernobyl Analysis: E. E. Purvis III • Focus on Women: D. L. Brautigan; P. J. Brown

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RANDOM SAMPLES 1341
Keeping Up With 2000 • Liquor-Loving Mice • Endowment for NIH • Hitting the Spot With Genes • Colliding Space Junk • Cosmic Identity Crisis

BOOK REVIEWS 1347
The Shape of Life, reviewed by M. L. McKinney • Principles of Condensed Matter, D. G. Grier • Vignette

PRODUCTS & MATERIALS 1415

SCIENCE'S NEXT WAVE 1433
A Daring Science Career: Start Your Own Company

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Mutants in complementary chromatic adaptation isolated from the filamentous cyanobacterium *Fremyella disphosphon*. Each of the four mutants shown has a lesion in a separate step of the signal transduction pathway controlling complementary chromatic adaptation and shows a different color during growth. The red cells (center, red mutants) are response regulator mutants, and the grayish colonies (upper left, black mutants) are defective in a sensor with similarity to plant phytochromes. See page 1409. [Image: Gregory O. Lam-Niemeyer]