**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

**PERPECTIVES**

- Coherent Exciton Waves 1351
  D. Smoke
- Airborne Particle Analysis for Climate Studies 1352
  T. Peter
- Refining the Taxonomy of Memory 1353
  T. W. Robbins

**RESEARCH ARTICLES**

- Superstructure Control in the Crystal Growth and Ordering of Urea Inclusion Compounds 1355
  M. D. Hollingsworth, M. E. Brown, A. C. Hillier, B. D. Santarsiero, J. D. Chaney
- Mantle Viscosity and Ice-Age Ice Sheet Topography 1359
  W. R. Peltier
- A Silicate Inclusion in Puente del Zacate, a IIIA Iron Meteorite 1365

**DEPARTMENTS**

**THIS WEEK IN SCIENCE**

- The Reality of Science Funding 1313
  P. V. Domenici
- Keeping Up With 2000: Liquor-Loving Mice 1341
- Endowment for NIH: Hitting the Spot With Genes 1341
- Colliding Space Junk: Cosmic Identity Crisis 1341

**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 1321

**RANDOM SAMPLES**

- Principles of Condensed Matter, D. G. Grier • Vignette 1347

**BOOK REVIEWS**

- The Shape of Life, reviewed by M. L. McKinney 1347
- A Daring Science Career: Start Your Own Company 1415

**PRODUCTS & MATERIALS**

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

**EDITORIAL**

- The Reality of Science Funding 1313
  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 1321

**RANDOM SAMPLES**

- Principles of Condensed Matter, D. G. Grier • Vignette 1347

**BOOK REVIEWS**

- The Shape of Life, reviewed by M. L. McKinney 1347
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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]
Editor's Summary