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Mutants in complementary chromatic adaptation isolated from the filamentous cyanobacterium *Fremyella displosiphon*. 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]

Radiocarbon in Hydrologic Systems Containing Dissolved Magmatic Carbon Dioxide
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Crystal Structure of the *Aequorea victoria* Green Fluorescent Protein

Bimodal Interaction of Coatamer with the p24 Family of Putative Cargo Receptors
K. Fiedler, M. Veit, M. A. Stamnes, J. E. Rothman

A Neostriatal Habit Learning System in Humans
B. J. Knowlton, J. A. Mangels, L. R. Squire

A Requirement for Local Protein Synthesis in Neurotrophin-Induced Hippocampal Synaptic Plasticity
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CRINKLY4: A TNFR-Like Receptor Kinase Involved in Maize Epidermal Differentiation
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Similarity of a Chromatic Adaptation Sensor to Phytochrome and Ethylene Receptors
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**TECHNICAL COMMENTS**

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**Cover**

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