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Chilly Ice-Age Tropics Could Signal Climate Sensitivity
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Cell Cycle Inhibitors May Help Brake Growth as Cells Develop

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The Chemistry of John Dalton’s Color Blindness

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John Dalton (1766–1844) is celebrated for developing the atomic theory of chemistry, but his first scientific paper to the Manchester Literary and Philosophical Society in 1794 was an account of how his color perceptions differed from those of other people. After 150 years, amplification of DNA from his preserved eye tissue has revealed the molecular basis for his color blindness. See page 984. [Engraving: Dated 1896, reproduced by permission of the British Library]

**RESEARCH ARTICLE**

**Mechanism of Inhibition of HIV-1 Reverse Transcriptase by Nonnucleoside Inhibitors**
R. A. Spence, W. M. Kati, K. S. Anderson, K. A. Johnson

**Simultaneous Studies of Reaction Kinetics and Structure Development in Polymer Processing**

**Evidence from Ion Chromatography**
G. Shi, S. Jin, G. Xue, C. Li

**A Conducting Polymer Film Stronger Than Aluminum**

**Iceberg Discharges into the North Atlantic on Millennial Time Scales During the Last Glaciation**
G. C. Bond and R. Lotti

**Resonant Tunneling in the Quantum Hall Regime: Measurement of Fractional Charge**
V. J. Goldman and B. Su

**Numbers and Ratios of Visual Pigment**
M. Neitz and J. Neitz

**Peptide Specificity in the Recognition of MHC Class I by Natural Killer Cell Clones**

**Correlation of Terminal Cell Cycle Arrest of Skeletal Muscle with Induction of p21 by MyoD**

**Inhibition of Myogenic Differentiation in Proliferating Myoblasts by Cyclin D1–Dependent Kinase**
S. X. Skapek, J. Rhee, D. B. Spicer, A. B. Lasser

**p53-Independent Expression of p21Caps in Muscle and Other Terminally Differentiating Cells**

**Temporal Information Transformed into a Spatial Code by a Neural Network with Realistic Properties**
D. V. Buonomano and M. M. Merzenich

**Molecular Cloning and Characterization of an Inner Ear–Specific Structural Protein**
J. G. Davis, J. C. Oberholzer, F. R. Burns, M. I. Greene

**Prevention of Atherosclerosis in Apolipoprotein E–Deficient Mice by Bone Marrow Transplantation**
M. F. Linton, J. B. Atkinson, S. Fazio

**TECHNICAL COMMENTS**

**Retinal Representations**
R. W. Guillery; D. Lee and J. G. Malpeli

[Cover Image]