This Week in Science

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Letters

ScienceScope
A "non-critical" technologies institute; grant rationing at the VA; etc.

News & Comment
Misconduct: Caltech's Trial by Fire
Draft Gallo Report Sees Light of Day • Czechmate?
Societies Complain About Ethics Rules
USDA's Food Survey Riddled With Flaws
Industrial R&D Plea
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A New Buzz in the Medfly Debate
Briefings: On the Trail of Genes for IQ • UARS Launches Earth Mission • Medical Gender Gap • Bromley Worries About Engineering • The Promiscuous Boy-Next-Door • Thumbs Up for Monoclonal Drugs • Mycomummy

Research News
Ancient DNA: Still Busy After Death • If Not a Dinosaur, a Mammoth?
Straightening Out the Protein Folding Puzzle
Making Choosy Molecules
An About-Face Found in the Ancient Ocean
Fetal Brain Signals Time for Birth

Perspective
Recognition of DNA by Cys2,His2 Zinc Fingers: R. E. Klevit

Articles
Establishment of the Mediterranean Fruit Fly in California: J. R. Carey
Motions and Relaxations of Confined Liquids: S. Granick
The Medial Temporal Lobe Memory System: L. R. Squire and S. Zola-Morgan

Research Article
Reexamination of the Folding of BPTI: Predominance of Native Intermediates: J. S. Weissman and P. S. Kim
High-intensity ultrasound creates localized hot spots in liquids through the process of cavitation: the formation, growth, and implosive collapse of bubbles. Local heating produces excited states of diatomic carbon (C2) from hydrocarbons; these states emit light just as they do in a flame. The images of such sonoluminescence from a vibrating titanium rod (1 centimeter long) is shown in false color. The temperature created in cavitation hot spots, determined from the spectrum of this emission, is ≈5000 K. See page 1397. [Photograph by J. A. Gray, K. A. Kemper, and K. S. Suslick; University of Illinois at Urbana-Champaign]
Science 253 (5026), 1331-1437.