This Week in Science

Editorial

1097 Cleaning Hazardous Waste Sites

Letters

1102 Drug Decriminalization: M. A. Vance; J. C. Burnham; B. Fozouni, I. Sassi; G. G. Nahas; D. E. Strebel; D. R. Hershey

Perspective

1106 Mobile Introns and Intron-Encoded Proteins: P. S. Perlman and R. A. Butow

News & Comment

1110 Space Station Science: Up in the Air
1113 Anthropologists Debate Tasaday Hoax Evidence
1114 Uncertain Future for Chinese Students
1115 Golden Opportunities Seen in Biology

Budget Fix Hits Research Grants

Research News

1116 Briefings: Turnaround in Medical Enrollments ■ The Abnormally Normal Quasar ■ New Age Nobelists ■ Congress to Extend R&D Tax Credits ■ Space Tomato Seeds to See Rhizosphere ■ Fusion Reactor Nearing Breakeven ■ Pacific Balloonists to Sample Jet Stream ■ Grading the University ■ Japanese Wire for U.S. SSC Magnets?
1118 Greenhouse Skeptic Out in the Cold ■ Turning Down the Heat
1120 Science Gives Ivory a Sense of Identity
1121 Stehelin Persists in Nobel Protest
1122 The Structure of the “Second Genetic Code”

Articles

1124 Prediction and Theory Evaluation: The Case of Light Bending: S. G. Brush
1130 Ultrafast Dynamics at Semiconductor and Metal Surfaces: J. Bokor

Research Articles

1135 Structure of E. coli Glutaminyl-tRNA Synthetase Complexed with tRNA\textsuperscript{Gln} and ATP at 2.8 Å Resolution: M. A. Rouald, J. J. Perona, D. Söll, T. A. Steitz
The crystal structure of *Escherichia coli* glutaminyl-tRNA synthetase (in blue) complexed with tRNA*Gln* (in red and yellow) and adenosine triphosphate (ATP, in green). The structure shows that this enzyme recognizes this specific tRNA and discriminates against the other six through extensive interactions with the acceptor stem and anticodon of the tRNA. See pages 1135 and 1152. [Graphics by M. Á. Rould, J. J. Perona, P. Vogt, and T. A. Steitz, Yale University, New Haven, Connecticut]