1095  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. Soll, 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 sixty-thousand interactions with the acceptor stem and anticodon of the tRNA. See pages 1135 and 1152. [Graphics by M. Á. Roule, J. J. Perona, P. Vogt, and T. A. Steitz, Yale University, New Haven, Connecticut]
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