NEWS & COMMENT

Strong Medicine for NIH 896
DOE Ponders Yet More Uses for SSC 898
Occupational Health: Toxic Tiff Spreads Beyond France 898
House Trims NSF Funding Plan 899
Electronic Networks: Cyberspace Offers Chance to Do 'Virtually' Real Science 900

RESEARCH NEWS

Zebrafish Hit the Big Time 904
Dying Stars Give Galactic Theory New Life 906
Red Galaxies Hint at an Old Universe 906
Keeping Tabs on Cometary Breakups 907
Post-Polio Syndrome: Remembrance of Viruses Past 909

PERSPECTIVES

Distant Effects of Volcanism—How Big and How Often? 913
T. Simkin

Folding Pattern Diversity of Integral Membrane Proteins
S. W. Cowan and J. P. Rosenbusch 914

ARTICLES

Terawatt to Petawatt Subpicosecond Lasers
M. D. Perry and G. Mourou 917
Sex Determination and Dosage 924
Compensation: Lessons from Flies and Worms S. M. Parkhurst and P. M. Meneely

RESEARCH ARTICLE

Drosophila TAF6150: Similarity to Yeast Gene TSM-1 and Specific Binding to Core Promoter DNA
C. P. Verrijzer, K. Yokomori, J.-L. Chen, R. Tjian 933

REPORTS

Observation of Quantum-Size Effects at Room Temperature on Metal Surfaces With STM
P. Avouris and I.-W. Lyo 942
Diacylentic Lipid Tubules: Experimental Evidence for a Chiral Molecular Architecture
From Antarctica and black holes to yeast genetics and zippers, a broad array of subjects are represented by the books covered in this special issue of Science. And in the opening group of essay reviews, some current and sometimes unsettling trends in thinking about science and its place in the world at large are examined. A full listing of the books reviewed appears on page 981. [Cover design: C. Faber Smith. Letters A, C, E, G, and U from Mercury Archives/The Image Bank]