NEWS & COMMENT

Russian Science Aid Falls Short
Wanted: A Few Thousand Good Reviewers
A Thin Lifeline to Genome Researchers

New Seveso Findings Point to Cancer
NSF Balks at Grants to Entrepreneurs
Science in Canada: Agency Head Quits, Warning of Cuts

RESEARCH NEWS

Learning How to Suppress Cancer
Chemistry Community Swarms Into Windy City
Breaking the Code for the Tuberculosis Invasion
Bits of the Lower Mantle Found in Brazilian Diamonds

PERSPECTIVES

Phase Boundaries and Mantle Convection
J. E. Vidale and T. Lay

Catalysis: Design Versus Selection
S. A. Benner

ARTICLE

Regioselective and Enantioselective Epoxidation Catalyzed by Metalloporphyrins
J. P. Collman, X. Zhang, V. J. Lee, E. S. Uffelman, J. I. Brauman

RESEARCH ARTICLES

Isolation of New Ribozymes from a Large Pool of Random Sequences
D. P. Bartel and J. W. Szostak

Physical Chemistry of the H2SO4/H2O System: Implications for Polar Stratospheric Clouds
Catalytic RNAs (ribozymes) emerging from a pool of random sequence RNA (blue) in response to in vitro selective pressure for catalytic activity. After an initial increase in abundance to detectable levels (green), with mutation and continued selection some improved catalysts come to dominate the population (red). Such in vitro manipulation can result in a population of new ribozymes with desired specificity. See page 1411 and the Perspective on page 1402. [Image: David Bartel, source; Tracy Keaton, additional illustration]
Science 261 (5127), 1369-1466.