NEWS & COMMENT

Russian Science Aid Falls Short 1380
Wanted: A Few Thousand Good Reviewers
A Thin Lifeline to Genome Researchers

New Seveso Findings Point to Cancer 1383
NSF Balks at Grants to Entrepreneurs 1384
Science in Canada: Agency Head Quits, Warning of Cuts

RESEARCH NEWS

Learning How to Suppress Cancer 1385
Chemistry Community Swarms Into Windy City 1388

Breaking the Code for the Tuberculosis Invasion 1390

Bits of the Lower Mantle Found in Brazilian Diamonds 1391

DEPARTMENTS

THIS WEEK IN SCIENCE 1369
EDITORIAL 1371
Clean Thoughts on Clean Air

LETTERS 1373
Protecting the Environment: EPA's Role: C. M. Browner; D. Sarokin; W. F. Sette; G. C. Pratt; J. Lash

SCIENCESCOPE 1379
RANDOM SAMPLES 1392
Fullerene Superconductors Heat Up • A Face-Off on Mars • U.K. Changes Mind About Malaria

PERSPECTIVES

Phase Boundaries and Mantle 1401
Convection
J. E. Vidale and T. Lay

Catalysis: Design Versus Selection 1402
S. A. Benner

ARTICLE

Regioselective and Enantioselective 1404
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 1411
Large Pool of Random Sequences
D. P. Bartel and J. W. Szostak

Physical Chemistry of the HNO3/H2O System: Implications for Polar Stratospheric Clouds

Vaccine • Gordon Conferences Pick New Head • Good Boogie and the Higgs Boson • Biopharmaceutical Industry Downsizing • Species Protection Moves at Snail's Pace

BOOK REVIEWS 1461
Genius in the Shadows, reviewed by S. Schweber • The Paterned Peafields of Minnesota, D. H. Vitt • Marine Climate, Weather, and Fisheries, G. D. Sharp • Electron Microdiffraction, R. Vincent • Vignette • Books Received

PRODUCTS & MATERIALS 1466

Board of Reviewing Editors

John Abelson
Frederick W. Alt
Don L. Anderson
Michael Ashburner
Stephen I. Benkovic
David E. Bloom
Royd E. Bloom
Piet Borst
Michael S. Brown
Henry R. Bourne
James J. Bull
Kathryn Calame
C. Thomas Caskey
Dennis W. Chee
John M. Coffin
Paul J. Couttsen
Robert Desimone
Nicole Le Douarin
Bruce F. Edidige
Paul T. Englund
Richard G. Fairbanks
Douglas T. Fearon
Harry A. Fozard
K. Friederich
Theodore H. Geballe
Margaret J. Geller
John C. Gerhart
Roger I. M. Glass
Stephen P. Goff
Peter N. Goodfellow
Corey S. Goodman
Stephen J. Gould
Ira Herskowitz
Eric F. Johnson
Stephen M. Kosslyn
Michael LaBarbera
Charles S. LeVings III
Alexander Levitov
Harvey F. Lodish
Richard Losick
Dana Matthews
Anthony R. Means
Shigetada Nakashima
Roger A. Nicoll
William H. Orme-Johnson II
Stuart L. Pimm
Yeshayau Pocker
Dennis A. Powers
Ralph S. Quatrano
V. Ramanathan
Douglas C. Ross
T. M. Rice
Eriki Ruudalhti
David C. Rubie
Gottfried Schatz
Josef Schell
Ronald H. Schwartz
Terrence J. Sejnowski
Ellen Solomon
Thomas A. Steitz
Michael P. Styrsky
Richard F. Thompson
Robert T. N. Tian
Emil R. Unanue
Geerat J. Vermeij
Bert Vogelstein
Harald Weintraub
Zena Werb
George M. Whitesides
Owen N. Witte
William A. Wulf
Keith Yamamoto

1390 & 1454
New TB model
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]