NEWS & COMMENT

R&D Budget: More Wins Than Losses 164
OSTP Plans a Blueprint for Research 165
Russian Science: Battle Expands Over Shrinking Budget 166
Astronomy: A Scheme for a High-Flying Scope 167
Mars Observer: Management Faulted in Postmortem 167
U.S.-Japan Collaboration: Academic Biotech Deals Offer More Promise Than Product 168
National Laboratories: DOE Finds Physics Archives May Be Too Hot to Handle 170

RESEARCH NEWS

Rise and Fall of the Y Chromosome 171
Unveiling a Tuberculosis Drug Target 172
Ancient Tropical Climates Warm San Francisco Gathering 173
A Family Tree of European Bears 175

PERSPECTIVES

What Is a Whale? A. Berta 180
What Are We? Where Did We Come From? Where Are We Going? L. O’Neill, M. Murphy, R. B. Gallagher 181
Surprising Signals in Plant Cells A. M. Jones 183

DEPARTMENTS

THE WEEK IN SCIENCE 153
EDITORIAL 155
The Perversity of Inanimate Objects
LETTERS 157
Health Care Costs: A. R. Martin; R. D. Klugman and V. A. Fulginiti; M. E. DeBakey; G. H. Deckert

AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE

EDITORIAL BOARD

John Abelson
Frederick W. Alt
Don L. Anderson
Michael Ashburner
Stephen J. Benkovic
David E. Bloom
Floyd E. Bloom
Pet Borst
Michael S. Brown
Henry R. Bourne
James J. Bull
Kathryn Calame
C. Thomas Caskey
Dennis W. Chao
John M. Coffin
Paul J. Crutzen
Robert Desmore
Nicole Le Douarin
Bruce F. Elledge
Paul T. Englund
Richard G. Fairbanks
Douglas T. Fearon
Harry A. Fozard
K. Friedrich
Theodore H. Geballe
Margaret J. Geller
John C. Gerhart
Roger L. 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 Levitzki
Harvey P. Lodish
Richard Losick
Diane Mathis
Anthony R. Means
Shigetada Nakashima
Roger A. Nicoll
William H. Orme-Johnson III
Stuart L. Pimm
Yeshayau Pocker
Dennis A. Powers
Ralph S. Guthro
V. Ramanathan
Douglas C. Rees
T. M. Rice
Erki Ruoslahti
David C. Rubie
Gottfried Schatz
Josef Schell
Ronald H. Schwartz
Terrence J. Segovis
Ellen Solomon
Thomas A. Stenz
Michael P. Stryker
Richard F. Thompson
Robert T. N. Tjian
Emi R. Unanue
Geert J. Vermeij
Bert Vogelstein
Harold Weintraub
Zena Werb
George M. Whitesides
Owen N. Witte
William A. Wulf
Keith Yamamoto

150 SCIENCE • VOL. 263 • 14 JANUARY 1994

171 & 230
The wherefore of Y

180 & 210
Steps in whale evolution

PRODUCTS & MATERIALS

• Bringing More Reality to Fiction • Alaskan Illnesses Remain a Mystery, etc.

AAAS MEETING

241
1994 Annual Meeting Final Program

BOOK REVIEWS

252
Science and Anti-Science, reviewed by D. A. Hollinger • Visions of Caliban, M. Cartmill • Alfred Nobel, A. S. Travis • The Quantum Theory of Motion, S. Goldstein • Human Gene Mutation, H. H. Kazazian Jr. • Vignettes • Books Received

Scientific American

Board of Reviewing Editors

on July 14, 2017 from http://science.sciencemag.org/
Root-knot nematodes infect a wide range of plants and establish permanent feeding sites (giant cells) in the root by inducing expression of many plant genes. The promoter sequences required by the nematode to direct expression of one such gene have been uncoupled from those necessary for expression in uninfected roots. This nematode-responsive region provides gene expression in giant cells, revealed here by the activity of a reporter gene product (blue). See page 221. [Photo: Mark A. Conkling]