

619 This Week in *Science*

Editorial

621 NSF's Budget and Economic Competitiveness: E. BLOCH

Letters

623 Space Station Plan: R. LÜST ■ Politics in Letters: G. DUSHECK ■ Viewing Stereo Drawings: D. C. YOUNG ■ Lake Tahoe Mystery Disease: L. J. DORFMAN; A. D. ALLEN, F. N. PITTS, JR., R. E. ALLEN, J. S. HARASTZI, R. C. COHENOUR, D. C. AGNEW

News & Comment

625 Reagan Okays the Supercollider
626 Back to the Energy Crisis
628 Budget Details Released
629 Britain Chooses U.S.-Designed Reactor
New Look for House Committee
630 *Briefing*: NSF Announces Plans for Elementary Science ■ Fasting Astronomer Goes to Geneva ■ Comings and Goings ■ MacArthur to Support Family Planning ■ Japan to Build French Reprocessing Plant

Research News

631 Luminous Arcs Dwarf the Galaxies
632 Drug May Protect Brains of Heart Attack Victims
633 Values of Fundamental Constants Adjusted
634 New Database for AIDS Research

Association Affairs

638 Annual Report of the Executive Officer: WILLIAM D. CAREY

Articles

645 The Economic Consequences of Immigration: G. J. BORJAS AND M. TIENDA
651 New Strong Cement Materials: Chemically Bonded Ceramics: D. M. ROY
658 Programmed Gene Rearrangements Altering Gene Expression: P. BORST AND D. R. GREAVES

- **SCIENCE** is published weekly on Friday, except the last week in December, and with an extra issue in February by the American Association for the Advancement of Science, 1333 H Street, NW, Washington, DC 20005. Second-class postage (publication No. 484460) paid at Washington, DC, and at an additional entry. Now combined with *The Scientific Monthly* © Copyright © 1987 by the American Association for the Advancement of Science. The title SCIENCE is a registered trademark of the AAAS. Domestic individual membership and subscription (51 issues): \$65. Domestic institutional subscription (51 issues): \$98. Foreign postage extra: Canada \$32, other (surface mail) \$27, air-surface via Amsterdam \$65. First class, airmail, school-year, and student rates on request. Single copies \$2.50 (\$3 by mail); back issues \$4 (\$4.50 by mail); Biotechnology issue, \$5.50 (\$6 by mail); classroom rates on request; Guide to Biotechnology Products and Instruments \$16 (\$17 by mail). **Change of address:** allow 6 weeks, giving old and new addresses and seven-digit account number. Authorization to photocopy material for internal or personal use under circumstances not falling within the fair use provisions of the Copyright Act is granted by AAAS to libraries and other users registered with the Copyright Clearance Center (CCC) Transactional Reporting Service, provided that the base fee of \$1 per copy plus \$0.10 per page is paid directly to CCC, 21 Congress Street, Salem, Massachusetts 01970. The identification code for *Science* is 0036-8075/83 \$1 + .10. **Postmaster:** Send Form 3579 to *Science*, 1333 H Street, NW, Washington, DC 20005. *Science* is indexed in the *Reader's Guide to Periodical Literature* and in several specialized indexes.
- The American Association for the Advancement of Science was founded in 1848 and incorporated in 1874. Its objects are to further the work of scientists, to facilitate cooperation among them, to foster scientific freedom and responsibility, to improve the effectiveness of science in the promotion of human welfare, and to increase public understanding and appreciation of the importance and promise of the methods of science in human progress.



COVER Foliar symptoms of verticillium wilt in cotton, characterized by chlorosis and necrosis between the main veins. Cotton seedlings that had been exposed to spider mites were less likely to develop symptoms of verticillium wilt than unexposed control seedlings. See page 678. [Jack Kelly Clark, Cooperative Extension, University of California, Davis 95616]

Reports

- 668 Synthesis and Equation of State of $(\text{Mg,Fe})\text{SiO}_3$ Perovskite to Over 100 Gigapascals: E. KNITTLE AND R. JEANLOZ
- 670 Lysosphingolipids Inhibit Protein Kinase C: Implications for the Sphingolipidoses: Y. A. HANNUN AND R. M. BELL
- 674 HTLV x Gene Mutants Exhibit Novel Transcriptional Regulatory Phenotypes: W. WACHSMAN, A. J. CANN, J. L. WILLIAMS, D. J. SLAMON, L. SOUZA, N. P. SHAH, I. S. Y. CHEN
- 678 Induced Resistance and Interspecific Competition Between Spider Mites and a Vascular Wilt Fungus: R. KARBAN, R. ADAMCHAK, W. C. SCHNATHORST
- 680 Development of Two Types of Calcium Channels in Cultured Mammalian Hippocampal Neurons: Y. YAARI, B. HAMON, H. D. LUX
- 683 A Sequence in M13 Phage Detects Hypervariable Minisatellites in Human and Animal DNA: G. VASSART, M. GEORGES, R. MONSIEUR, H. BROCAS, A. S. LEQUARRE, D. CHRISTOPHE
- 685 Long-Term Sensitization in *Aplysia*: Biophysical Correlates in Tail Sensory Neurons: K. P. SCHOLZ AND J. H. BYRNE
- 687 *Diadema antillarum* Was Not a Keystone Predator in Cryptic Reef Environments: J. B. C. JACKSON AND K. W. KAUFMANN
- 689 Can Microscale Chemical Patches Persist in the Sea? Microelectrode Study of Marine Snow, Fecal Pellets: A. L. ALLDREDGE AND Y. COHEN

Book Reviews

- 694 The Chimpanzees of Gombe. Patterns of Behavior, reviewed by J. ALTMANN ■ Gene Activity in Early Development, I. B. DAWID ■ Light on Dark Matter, T. HERTER ■ Phylogeny Reconstruction in Paleontology, A. B. SMITH ■ Books Received

Products & Materials

- 697 Word-Processing Software ■ Modular Clean Room ■ Tube Coatings ■ Ultramicrotome ■ Pulsed Electrophoresis Control System ■ Separation Systems ■ Literature

Board of Directors

Gerard Piel
*Retiring President,
Chairman*

Lawrence Bogorad
President

Sheila E. Widnall
President-elect

Robert McC. Adams
Robert W. Berliner
Floyd E. Bloom
Mary E. Clutter
Mildred S. Dresselhaus
Donald N. Langenberg
Dorothy Nelkin
Linda S. Wilson

William T. Golden
Treasurer

William D. Carey
Executive Officer

Editorial Board

Elizabeth E. Bailey
David Baltimore
William F. Brinkman
Philip E. Converse
Joseph L. Goldstein
James D. Idol, Jr.
Leon Knopoff
Seymour Lipset
Oliver E. Nelson
David V. Ragone
David M. Raup
Vera C. Rubin
Larry L. Smarr
Solomon H. Snyder
Robert M. Solow
James D. Watson

Board of Reviewing Editors

John Abelson
Qais Al-Awqati
James P. Allison
Don L. Anderson
Elizabeth H. Blackburn
Floyd E. Bloom
Charles R. Cantor
James H. Clark
Bruce F. Eldridge
Stanley Falkow
Theodore H. Geballe
Roger I. M. Glass
Stephen P. Goff
Robert B. Goldberg

Corey S. Goodman
Stephen J. Gould
Richard M. Held
Gloria Heppner
Eric F. Johnson
Konrad B. Krauskopf
I. Robert Lehman
Karl L. Magleby
Joseph B. Martin
John C. McGiff
Alton Meister
Mortimer Mishkin
Peter Olson
Gordon H. Orians
John S. Pearce

Yeshayau Pocker
Jean Paul Revel
James E. Rothman
Thomas C. Schelling
Ronald H. Schwartz
Stephen M. Schwartz
Otto T. Solbrig
Robert T. N. Tjian
Virginia Trimble
Geerat J. Vermeij
Martin G. Weigert
Harold Weintraub
Irving L. Weissman
George M. Whitesides
Owen N. Witte
William B. Wood

Science

235 (4789)

Science **235** (4789), 629b-697.

ARTICLE TOOLS <http://science.sciencemag.org/content/235/4789>

PERMISSIONS <http://www.sciencemag.org/help/reprints-and-permissions>

Use of this article is subject to the [Terms of Service](#)

Science (print ISSN 0036-8075; online ISSN 1095-9203) is published by the American Association for the Advancement of Science, 1200 New York Avenue NW, Washington, DC 20005. The title *Science* is a registered trademark of AAAS.

Copyright © 1987 The Authors, some rights reserved; exclusive licensee American Association for the Advancement of Science. No claim to original U.S. Government Works.