1251 This Week in Science

Editorial
1253 Animal Rights and Animal Wrongs

Letters
1255 Epidemiologic Investigation: E. H. Kass; S. SHAPIRO; A. R. FEINSTEIN

News & Comment
1279 Europe Recognizes the Ozone Threat
1280 Pesticides and Kids
1281 NASA's $60,000 Epoxy Drops
1282 Chinese Bar Physicist from Bush Dinner
1283 GM, Hughes Settle Stock Fight
1284 An Arbitrator for Space Policy
1284 France Introduces Bioethics Law
1285 Germany Enters Hypersonic Race
1285 Japan Faces Big Task in Improving Basic Science
1287 The Drug Czar: No "Walter Wallflower"

Research News
1288 Image Capture by Computer
1289 How Females Entrap Males
1290 Is Something Strange About the Weather? Where Strange Attractors Lurk
1293 Seeing Cracks in Three Dimensions
1294 Hidden Complexities in the Risks of Extinction

Articles
1313 Is the Stock Market Efficient? B. G. Malkiel

Research Articles
1325 Hydrogen Tunneling in Enzyme Reactions: Y. CHA, C. J. MURRAY, J. P. KLINMAN
1330 Receptor and Antibody Epitopes in Human Growth Hormone Identified by Homolog-Scanning Mutagenesis: B. C. CUNNINGHAM, P. JHURANI, P. NG, J. A. WELLS

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. 848460) paid at Washington, DC, and at an additional entry. Now combined with the Scientific Monthly. Copyright © 1989 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): $70. Domestic institutional subscription (51 issues): $110. Foreign postage extra: Canada $32, other (surface mail) $32, air-surface via Amsterdam $85. First class, airmail, school-year, and student rates on request. Single copy sales: Current issue, $3.50; back issues, $6.00; Biotechnology, $6.00 (for postage and handling, add per copy $0.50 U.S., $1.00 all foreign); Guide to Biotechnology Products and Instruments, $18 (for postage and handling add per copy $1.00 U.S., $1.50 Canada, $2.00 other foreign). Bulk rates on request. Change of address: allow 6 weeks, giving old and new addresses and 11-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 0036-8075/89 $1 + .10. Postmaster: Send Form 3579 to Science, P.O. Box 1722, Riverton, NJ 08077. 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.
Photograph of a dwarf plant of Arabidopsis thaliana isolated from a population of transformants that had been generated by infecting seeds with Agrobacterium. Genetic analysis indicates that the recessive mutation that caused this phenotype is due to the insertion of a T-DNA from Agrobacterium into a gene that in the homozygous state confers dwarfism to the plant. The plant pictured was 3.5 centimeters in height. The portion pictured is 3 centimeters in height. See page 1351. [Photograph by Devere Patton, senior photographer, E. I. du Pont de Nemours & Company, Wilmington, DE 19898]