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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. 48446) paid at Washington, DC, and at an additional entry. No combined with The Scientific Monthly’s Copyright © 1988 by the American Association for the Advancement of Science. The title SCI-ENCE is a registered trademark of the AAAS. Domestic individual membership and subscription (51 issues): $70. Dom-estic institutional subscription (51 issues): $110. Foreign postage extra: Canada $30, other (surface mail) $32, air-surface via Amsterdam $86. First class, airmail, school-year, and student rates on request. Single copies $3.00 ($5.50 by mail); back issues $4.50 ($5.00 by mail); Biotechnology issue, $5.50 ($6 by mail); classroom rates on request; Guide to Bio-technology Products and Instruments $15 ($17 by mail). Change of address: allow 6 weeks giving old and new ad-dresses and seven-digit account number. Authorization to photocopy material for internal or personal use under circum-stances not falling within the fair use provisions of the Copyright Act is granted by AAAS to libraries and other users regis-tered 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.

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Wild-type seedlings and one ethylene-insensitive mutant of Arabidopsis thaliana grown in an atmosphere containing the plant growth regulator ethylene. The wild-type seedlings show a growth habit characteristic for plants treated with ethylene: reduced elongation, thickened hypocotyls, and pronounced apical hooks. The ethylene-insensitive mutant elongated normally just as wild-type seedlings would do in an atmosphere without ethylene. Such a screen was used to select three ethylene-insensitive mutants among 75,000 seedlings grown in petri dishes. [See page 1086. Photo by Kurt Stepnitz, Instructional Media Center, Michigan State University, East Lansing, MI 48824]