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The American Association for the Advancement of Science was founded in 1848 and incorporated in 1874. Its objectives 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, to advance education in science, and to increase public understanding and appreciation of the importance and promise of the methods of science in human progress.
COVER Senescence in fruit can be prevented by inhibiting the synthesis of the fruit-ripening hormone ethylene with the use of antisense RNA in transgenic tomatoes. The normal fruits on the left produce ethylene and ripen normally; the antisense-containing fruits in the middle fail to ripen. Treatment of antisense fruits with exogenous ethylene restores ripening (fruits on the right). See page 437. [Photo by Stephen Gladfelter, Stanford University Medical Center]

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