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Sectors of a tobacco leaf infiltrated with the plant pathogenic bacterium *Erwinia amylovora* or harpin, a protein isolated from it, show collapsed tissue (dark spots); sectors infiltrated with *E. amylovora* mutants that lack harpin have not collapsed. *Erwinia amylovora* causes fire blight, a severe disease of apple and pear trees; harpin appears to be responsible for the collapse of infiltrated tissue and is required for the development of the disease. See page 85. [Photograph: K. Loeffler]