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Distribution of APETALA3 RNA (red) in young flowers of the leafy-5 mutant of Arabidopsis. The expression of APETALA3, which determines the identity of floral organs, is nearly normal in leafy-5 and apetala1-1 single mutants. In contrast, very little APETALA3 RNA can be detected in plants that carry both the leafy-5 and apetala1-1 mutations, which indicates that LEAFY and APETALA1 have overlapping roles in activating floral homeotic genes. See page 1723. [Photo: Detlef Weigel]