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Expression of the maize anthocyanin-specific transcriptional activator $R$ in tobacco (flowers) and Arabidopsis thaliana (stems and leaves) increases anthocyanin (red pigment) biosynthesis in both species and trichome (hair) production in Arabidopsis. Wild-type samples are on the left; those that express $R$ are on the right. $R$ functions in these heterologous species despite the evolutionary divergence of monocots and dicots and may prove to be a valuable visible marker in many plant species. See page 1773. [Photograph: Ted Preuss]