**On the Cover:** MYB proteins contain a conserved DNA-binding domain (MYB domain) and function as transcription factors playing roles in various physiological, developmental, and biochemical processes. In this issue, Deluc et al. (pp. 499–511) describe the phenotype of tobacco plants overexpressing VvMYB5a, a grapevine protein belonging to a small cluster of MYB transcription factors with no assigned biological functions at this time. The cover picture illustrates only one aspect of the phenotype, a strong accumulation of anthocyanin compounds in flowers and especially in stamens. In addition, VvMYB5a overexpression affects the metabolism of flavonoids, proanthocyanidins, and lignins. These findings not only confirm the role of some MYB transcription factors in the control of specific branches of the phenylpropanoid pathway in plants but also suggest the ability for a single MYB protein to impact the whole pathway. Cover image by Laurent Deluc. Image layout by Ash Csikos.

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