ON THE COVER

The transition from a vegetative to a floral meristem is a complex process involving a host of transcription factors and interacting partners that engage in an intricate balancing act between activation and repression of downstream genes influencing meristem and organ identity. The MADS box genes AGAMOUS-LIKE 24 (AGL24) and SHORT VEGETATIVE PHASE (SVP) are known to function as a promoter and a repressor, respectively, of floral meristem identity in Arabidopsis. Gregis et al. (pages 1373–1382) show that AGL24 and SVP function in the floral meristem via their interaction with the MADS domain protein APETALA1 (AP1). Their work shows that dimers composed of AP1-AGL24 and AP1-SVP interact with the LEUNIG-SEUSS repressor complex, and this influences the regulation of the C-class gene AGAMOUS during the early stages of flower development.

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