Another Story of MADS-Box Genes – AGL12, AGS14 and AGL19

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Abstract

MADS-box genes encode a family of transcription factors, which control developmental processes in flowering plants ranging from flower to root development. During the last few years increasing evidence point to more general roles of these factors not only in the control of flowering time, but also in other reproductive processes. However, they are also expressed in roots, stems and leaves. These results suggest that their function may be much more diverse than those involved in flowering, and the possibility of uncovering new roles for MADS-box genes in plant development. Here, we specifically explore the role of the AGL12, AGS14 and AGL19 in development of root structures. These MADS box genes provide new insight into the root development of other plant species and how it is distinct from the one in Arabidopsis is investigated.

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