ON THE COVER

New cells generated by stem cells usually amplify rapidly in number through fast cell division cycles to fuel organ growth. Rodriguez et al. (pages 3354–3366) report in this issue that microRNA-mediated repression of GRF transcription factors in the stem cells is essential for the activity of the root stem cell niche, whereas GRFs repress stem cell genes in the transit amplifying cells. The cover photo is an overlay of three confocal microscope images showing the expression of miR396a (yellow), miR396b (green), and GRF3 (cyan) in Arabidopsis roots. Cell walls were stained with propidium iodide to visualize the cellular organization of the root tip.

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