ON THE COVER

In winter, perennial plants obstruct signaling via sieve tubes and plasmodesmata through callose accumulation, and they surround sensitive shoot apical meristems with tightly packed bud scales. Regrowth in the spring requires the reverse process to facilitate signal delivery. Rinne et al. (pages 130–146) identified 10 putative *Populus* orthologs of *Arabidopsis* genes that encode structurally different callose-degrading 1,3-β-glucanases. They show that these enzymes localize at and around plasmodesmata and are differentially regulated by seasonal cues and the hormones GA₃ and GA₄. The findings provide a mechanistic explanation of how cell–cell communication is modulated during the dormancy cycle. The cover image shows young, vigorously growing *Populus* trees that continuously monitor photoperiod to keep track of seasonal progression.

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CORRECTION


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