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ON THE COVER

The wild potato species *S. commersonii* can cold acclimate to survive temperatures down to −12°C. In contrast, the cultivated potato (*S. tuberosum*) is frost sensitive. Aversano et al. (pages 954–968) sequenced the *S. commersonii* genome, the first for a wild potato relative, and, among the other significant findings, identified new cold-regulated genes that lack orthologs in *S. tuberosum*. The information generated provides a foundation for further experiments to explore the gene regulation network required for cold tolerance and acclimation and to determine the function of cold-responsive genes through molecular and cellular approaches. The cover image by Riccardo Aversano depicts the typical star-shaped flowers of *S. commersonii* emerging from snow.

IN BRIEF

COMMENTARY

LARGE-SCALE BIOLOGY ARTICLE

RESEARCH ARTICLES

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