

T H E  
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**ON THE COVER**



The Cleomaceae is a plant family comprising ~150 species in 17 genera, and is the sister family to Brassicaceae, which includes the model plant *Arabidopsis* and crop Brassicas. Shifeng et al. (pages 2813–2830) present the complete genome sequence from the Cleomaceae species *Tarenaya hassleriana* (shown on the cover). The authors show how the sister-group relationship can provide insights into plant evolution, from the evolution of single genes to massive genome events such as whole-genome duplications. The striking asymmetric floral pattern that can be seen on this photograph is a hallmark of Cleomaceae, and by comparing genes in the Cleomaceae with genes in the Brassicaceae, the authors reveal interesting variation in floral gene-copy number retention and diversification. (Photo by Amey S. Bhidé.)

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
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