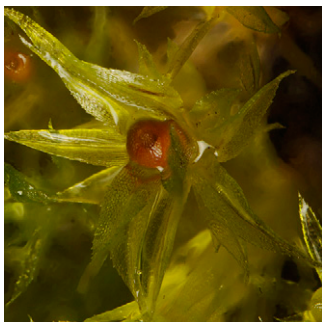


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**ON THE COVER**



Hydrophobic cuticles are thought to be ubiquitous in land plants and an essential adaptation for life in terrestrial environments. However, current understanding of cuticle structure, architecture, and biosynthetic pathways is based almost exclusively on studies of later diverging plant species. Buda et al. (pages 4000–4013) report that the moss *Physcomitrella patens* has a cuticle that is similar in many respects to those of spermatophytes, and show that an ABCG transporter is required for depositing cuticular waxes, resulting in enhanced desiccation tolerance. The cover shows *P. patens* in its haploid form with developing diploid sporophytes.

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
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
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Yeam, I., Cavatorta, J.R., Ripoll, D.R., Kang, B.-C., and Jahn, M.M. (2007). **4278**  
Functional dissection of naturally occurring amino acid substitutions in eIF4E that confers recessive potyvirus resistance in plants. *Plant Cell* 19: 2913–2928.

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