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T H E  
**PLANT**  
C E L L

CUTICLE DEVELOPMENT LINKED TO EPIDERMAL CELL DIFFERENTIATION

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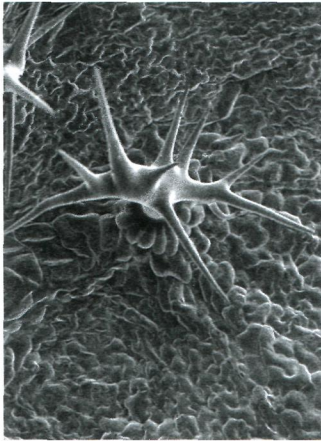


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**PLANT**  
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**ON THE COVER**



Epidermal cells differentiate into various shapes. Trichomes and petal conical cells are formed by cell outgrowth regulated by MIXTA-like MYB transcription factors. Oshima et al. present evidence that two *Arabidopsis* MIXTA-like MYB transcription factors, MYB106 and MYB16, regulate cuticle development by inducing expression of cutin and wax biosynthetic genes. Expression of MYB106 chimeric repressor and knockout/down of MYB106 and MYB16 induced not only cell outgrowth abnormality but also organ adhesion, reduction of epicuticular wax crystal and cutin nanoridges. The cover shows a trichome of *MYB16-amiRNA myb106* knockout/down with many more branches and a much smoother cell surface without papillae.

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