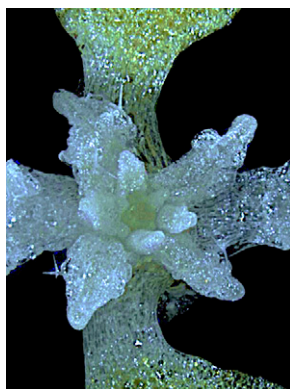


# T H E P L A N T C E L L

Volume 30 Number 8 August 2018

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## ON THE COVER



Using a range of approaches, Schreier et al. (pages 1745–1769) show that the plastid-localized malate dehydrogenase pdNAD-MDH is needed for the proper development of chloroplasts during embryogenesis. Surprisingly, the authors found that the enzymatic activity of pdNAD-MDH is not required in these processes, but only the pdNAD-MDH protein itself. They show that the pdNAD-MDH protein appears to have a second, “moonlighting” function, distinct from its enzymatic activity, that functions in stabilizing the FtsH12 complex at the chloroplast inner envelope membrane. The cover image shows a close-up photograph of the meristematic zone of a 4-week-old *Arabidopsis pdnad-mdh* mutant, rescued by the expression of plastidial NAD-dependent malate dehydrogenase (pdNAD-MDH) exclusively during embryo development (*pdnad-mdh* knockout mutants are otherwise embryo-lethal).

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**CORRECTION** 1943

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and Hicks, G.R. (2017). Different endomembrane trafficking pathways  
establish apical and basal polarities. *Plant Cell* 29: 90–108.<sup>[OPEN]</sup>

<sup>[OPEN]</sup> Articles can be viewed without a subscription.



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