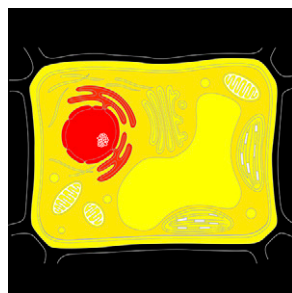


T H E P L A N T C E L L

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ON THE COVER



Waese et al. (pages 1806–1821) describe a new tool for the exploration of Arabidopsis data across >12 orders of magnitude encompassing >20 different kinds of genome-wide data, all in one easy-to-use, open-source tool. The cover shows an output image of ePlant, depicting the Cell eFP View for the transcription factor bZIP28, one of more than 20,000 genes available in the tool. Data from SUBA3 (the subcellular localization database for Arabidopsis proteins; Tanz et al., 2013) are retrieved on the fly by ePlant. Scores computed for each cellular compartment are used to generate a color gradient for depicting localization: Experimentally determined localizations are more highly weighted and thus appear redder in the yellow-to-red color scheme. Based on this scoring scheme, bZIP28's localization is primarily the nucleus and endoplasmic reticulum (in red), as supported by GFP fusion data from SUBA3. Visualization of large data sets in this manner can facilitate hypothesis generation for plant biology.

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