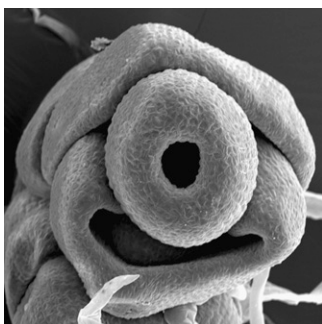


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**ON THE COVER**



Communication between the meristem and lateral organ primordia plays a critical role in plant development. Tanaka et al. (pages 80–95) characterize the *tongari-boushi1* (*tob1*) mutant in rice (*Oryza sativa*), which shows defects in the maintenance and organization of the spikelet meristem and in the initiation and development of spikelet organs such as the lemma and palea. *TOB1* encodes a YABBY protein, Os YABBY5, which is expressed in the lateral organs but not in the meristem per se. Thus, *TOB1* is likely to act non-cell autonomously to maintain proper meristem organization in rice spikelet development. The cover shows a developing *tob1* mutant spikelet, which forms a cone-shaped organ instead of the lemma and palea.

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