

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

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ON THE COVER



Inflorescence architecture is an important determinant of yield in major cereal crops, and it is a trait that displays remarkable diversity among grasses. Bread wheat is an important cereal that provides 20% of the world's calories and protein intake, and while much is known about the genetic and molecular regulation of inflorescence development in maize, rice, and barley, very little is known in wheat. Dixon et al. (563–581) investigate the bread wheat *hb* line that displays an altered form of inflorescence architecture, known as “paired spikelets” and demonstrate that an ortholog of the maize domestication gene known as *TEOSINTE BRANCHED1* regulates wheat inflorescence development and plant architecture in a dosage-dependent manner. The cover image shows an inflorescence of the bread wheat *hb* line, grown under field conditions, which displays elaborate inflorescence branching through the formation of additional spikelets.

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Yang, G., Liu, Z., Gao, L., Yu, K., Feng, M., Yao, Y., Peng, H., Hu, Z., Sun, Q., Ni, Z., and Xin, M. (2018). Genomic imprinting was evolutionarily conserved during wheat polyploidization. *Plant Cell* 30: 37–47. [OPEN](#)

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