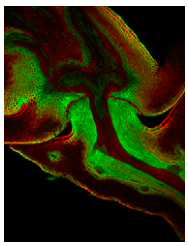
THE PLANT CELL

Volume 31 Number 1 January 2019

The electronic form of this issue, available at www.plantcell.org, is the journal of record.

ON THE COVER



The development of the abscission layer plays a determinative role in seed shattering, one of the critical traits affecting grain yield in crops. Fine-tuning the regulation of this process will help to improve grain yield by mitigating seed loss during crop production. Through a series of experiments, Jiang et al. (pages 17–36) show that the plant-specific APETALA2-like transcription factor *SUPERNUMERARY BRACT* modulates seed shattering by promoting the expression of *qSH1* and *SH5* and suppressing lignin deposition in the abscission zone. The cover shows the wild type complete abscission layer, in a confocal microscopy image of a free-hand longitudinal section of a spikelet at the anthesis stage from a wild rice (*Oryza rufipogon*) introgression line. Photo by Liyun Jiang, China Agricultural University.

EDITORIAL

IN BRIEF

RESEARCH ARTICLES

The Plant Cell (eISSN 1532-298X) is published monthly (one volume per year) by the American Society of Plant Biologists, 15501 Monona Drive, Rockville, MD 20855-2768, and is produced by Dartmouth Journal Services, Waterbury, VT. The institutional subscription price is based on type of institution; contact institution@aspb.org. Members of the American Society of Plant Biologists may subscribe to *The Plant Cell* for $240. Nonmember individuals may subscribe for $500. Students may subscribe for $165. For matters regarding subscriptions, contact Suzanne Cholwek, ASPB, 15501 Monona Drive, Rockville, MD 20855-2768; telephone 301/296-0926; fax 301/251-6740; e-mail scholwek@aspb.org. Send all inquiries regarding display advertising to FASEB AdNet, 9650 Rockville Pike, Bethesda, MD 20814-3998; telephone 301/634-7791; fax 301/634-7153; e-mail adnet@faseb.org. The online version of *The Plant Cell* is available at www.plantcell.org.

31 (1)
Plant Cell 2019;31;1-271