

Publications acknowledging WheatCAP support

2017 (60 publications, 318 cross citations in first two years)

1. Addison, C.K., R.E. Mason, G. Brown-Guedira, M. Guedira, Y. Hao, D.L. Lozada, A.M. Acuna, N.A. Arguello, N. Subramanian, J. Johnson, A.M.H. Ibrahim, R. Sutton, S.A. Harrison. 2016. QTL and major genes associated with grain yield in soft red winter wheat adapted to the southern United States. *Euphytica*. 209: 665-677. [doi:10.1007/s10681-016-1650-1](https://doi.org/10.1007/s10681-016-1650-1)
2. Arruda, M.P., P. Brown, G. Brown-Guedira, A.M. Krill, C. Thurber, K.R. Merrill, B.J. Foresman, F.L. Kolb. 2016. Genome-wide association mapping of Fusarium head blight resistance in wheat using genotyping-by-sequencing. *Plant Genome* 9(1) [doi:10.3835/plantgenome2015.04.0028](https://doi.org/10.3835/plantgenome2015.04.0028)
3. Assanga, S.O., M. Fuentealba, G. Zhang, C. Tan, S. Dhakal, J.C. Rudd, A.M.H. Ibrahim, Q. Xue, S.D. Haley, J. Chen, S. Chao, J. Baker, K. Jessup, S.Y. Liu. 2017. Mapping of quantitative trait loci for grain yield and its components in a US popular winter wheat TAM 111 using 90K SNPs. *PLOS ONE* 12: e0189669 [doi:10.1371/journal.pone.0189669](https://doi.org/10.1371/journal.pone.0189669)
4. Assanga, S.O., G. Zhang, C.-T. Tan, J.C. Rudd, A. Ibrahim, Q. Xue, S. Chao, M.P. Fuentealba, S.Y. Liu. 2016. Saturated genetic map of wheat streak mosaic virus resistance gene *wsm2* in wheat. *Crop Sci.* 57:332-339. [doi:10.2135/cropsci2016.04.0233](https://doi.org/10.2135/cropsci2016.04.0233)
5. Babiker, E.M., T.C. Gordon, S. Chao, M.N. Rouse, R. Wanyera, M. Newcomb, G. Brown-Guedira, Z.A. Pretorius, J.M. Bonman. 2016. Genetic mapping of resistance to the Ug99 race group of *Puccinia graminis* f. sp. *tritici* in a spring wheat landrace CItr 4311. *Theor Appl Genet* 2016:1-10. [doi: 10.1007/s00122-016-2764-5](https://doi.org/10.1007/s00122-016-2764-5)
6. Babiker, E.M., T.C. Gordon, S. Chao, M.N. Rouse, R. Wanyera, M. Acevedo, G. Brown-Guedira, M. Bonman. 2016. Molecular mapping of stem rust resistance loci effective against the Ug99 race group of the stem rust pathogen and validation of a single nucleotide polymorphism marker linked to stem rust resistance gene *Sr28*. *Phytopathology* 107:208-215. [doi:10.1094/PHYTO-08-16-0294-R](https://doi.org/10.1094/PHYTO-08-16-0294-R)
7. Babiker, E.M., T.C. Gordon, J.M. Bonman, S. Chao, M.N. Rouse, G. Brown-Guedira, S. Williamson, Z.A. Pretorius. 2016. Rapid identification of resistance loci effective against *Puccinia graminis* f. sp. *tritici* race TTKSK in 33 spring wheat landraces. *Plant Dis.* 1002: 331-336. [doi:10.1094/PDIS-04-15-0466-RE](https://doi.org/10.1094/PDIS-04-15-0466-RE)

8. Carter A.H., S.S. Jones, K.A. Balow, G.B. Shelton, A. Burke, S.R. Lyon, R.W. Higginbotham, X.M. Chen, D.A. Engle, T.D. Murray, C.F. Morris. 2017. Registration of ‘Jasper’ soft white winter wheat. *J. Plant Reg.* [doi:10.3198/jpr2016.09.0051crc](https://doi.org/10.3198/jpr2016.09.0051crc)
9. Carter A.H., S.S. Jones, S.R. Lyon, K.A. Balow, G.B. Shelton, A. Burke, R.W. Higginbotham, X.M. Chen, D.A. Engle, C.F. Morris. 2017. Registration of ‘Sequoia’ hard red winter wheat. *Journal of Plant Registrations* [doi:10.3198/jpr2016.09.0052crc](https://doi.org/10.3198/jpr2016.09.0052crc)
10. Carter A.H., K.K. Kidwell, A. Burke, G.B. Shelton, R.W. Higginbotham, V. DeMacon, M.J. Lewien, X.M. Chen, D.A. Engle, C.F. Morris. 2017. Registration of ‘Earl’ hard white winter wheat. *Journal of Plant Registrations* 11:275-280. [doi:10.3198/jpr2016.09.0054](https://doi.org/10.3198/jpr2016.09.0054)
11. Cai J., S. Wang, T Li, G. Bai. 2016. Multiple minor QTLs are responsible for Fusarium head blight resistance in Chinese wheat landrace Haiyanzhong. *PLoS ONE* 11:e0163292. [doi:10.1371/journal.pone.0163292](https://doi.org/10.1371/journal.pone.0163292)
12. Chao, S., M.N. Rouse, M. Acevedo, A. Szabo-Hever, H. Bockelman, J.M. Bonman, E. Elias, D. Klindworth, and S. Xu. 2017. Evaluation of genetic diversity and host resistance to stem rust in USDA NSGC durum wheat accessions. *Plant Genome* 10. [doi:10.3835/plantgenome2016.07.0071](https://doi.org/10.3835/plantgenome2016.07.0071)
13. Chen, J., M. J. Guttieri, J. Zhang, D. Hole, E. Souza, B. Goates. 2016. A novel QTL associated with dwarf bunt resistance in Idaho 444 winter wheat. *Theor Appl Genet.* 129: 2313-2322. [doi:10.18637/jss.v067.i01](https://doi.org/10.18637/jss.v067.i01)
14. Chen, J., J. Wheeler, N. Klassen, W. Zhao, K. O’Brien, C. Jackson, J. M. Marshall, X.M. Chen. 2017. Release of ‘UI Sparrow’ soft white winter wheat. *Journal of Plant Registration*, 12:79-84. [doi:10.3198/jpr2017.04.0021crc](https://doi.org/10.3198/jpr2017.04.0021crc)
15. Cook, J. P., N. K. Blake, H. Y. Heo, J. M. Martin, D. K. Weaver, and L. E. Talbert. 2017. Phenotypic and haplotype diversity among tetraploid and hexaploid wheat accessions with potentially novel insect resistance genes for wheat stem sawfly. *Plant Genome* 10. [doi:10.3835/plantgenome2016.03.0026](https://doi.org/10.3835/plantgenome2016.03.0026)
16. Dong, Z, J. Zhang, J. M. Hegarty, W. Zhang, S. Chao, X. Chen, Y. Zhou, and J. Dubcovsky. 2017. Validation and characterization of a QTL for adult plant resistance to stripe rust on wheat chromosome arm 6BS (*Yr78*). *Theor. Appl. Genet.* 130: 2127–2137 [doi:10.1007/s00122-017-2946-9](https://doi.org/10.1007/s00122-017-2946-9)
17. Fang, T., B.F. Carver, R.M. Hunger, L. Yan. 2017. Mis-spliced *Lr34* transcript events in winter wheat. *PLoS ONE* 12:e0171149. [doi:10.1371/journal.pone.0171149](https://doi.org/10.1371/journal.pone.0171149)
18. Gao, L., M.N. Rouse, P. Mihalyov, P. Bulli, M. Pumphrey, J.A. Anderson. 2017. Genetic characterization of stem rust resistance in a global spring wheat germplasm collection. *Crop Science.* 57:1-15. [doi:10.2135/cropsci2017.03.0159](https://doi.org/10.2135/cropsci2017.03.0159)
19. Guedira, M., M. Xiong, Y.F. Hao, J. Johnson, S. Harrison, D. Marshall, G. Brown-Guedira. 2016. Heading date QTL in winter wheat (*Triticum aestivum* L.) coincide with major developmental genes *VERNALIZATION1* and *PHOTOPERIOD1*. *PLoS ONE*, 11: e0154242. [doi:10.1371/journal.pone.0154242](https://doi.org/10.1371/journal.pone.0154242)

20. Guttieri, M.J., K. Frels, T. Regassa, B.M. Waters, P.S. Baenziger. 2017. Variation for nitrogen use efficiency traits in current and historical Great Plains hard winter wheat. *Euphytica* 213:87. [doi:10.1007/s10681-017-1869-5](https://doi.org/10.1007/s10681-017-1869-5)
21. Haley S.D., J.J. Johnson, F.B. Peairs, J.A. Stromberger, E.E. Hudson-Arns, S.A. Seifert, V.A. Anderson, G. Bai, X. Chen, R.L. Bowden, Y. Jin, J.A. Kolmer, M. Chen, and B.W. Seabourn. 2017. Registration of 'Sunshine' Hard White Winter Wheat. *J. Plant Reg.* [doi:10.3198/jpr2016.12.0075crc](https://doi.org/10.3198/jpr2016.12.0075crc)
22. Jernigan, K.L., C. F. Morris, R. Zemetra, J. Chen, K. Garland-Campbell, A.H. Carter. 2017. Genetic analysis of soft white wheat end-use quality traits in a club by common wheat cross. *J. Cereal Science.* 76:148-156. [doi:10.1016/j.jcs.2017.06.005](https://doi.org/10.1016/j.jcs.2017.06.005)
23. Kidwell, K.K, M. O. Pumphrey, J. S. Kuehner, G. B. Shelton, V. L. DeMacon, S. Rynearson, X. M. Chen, S. O. Guy, D. A. Engle, B.-K. Baik, C. F. Morris, and N. A. Bosque-Pérez. 2018. Registration of 'Glee" Hard Red Spring Wheat. *Journal of Plant Registrations.* 12:60-65. [doi:10.3198/jpr2016.04.0022crc](https://doi.org/10.3198/jpr2016.04.0022crc)
24. Kissing Kucek, L., E. Dyck, J. Russell, E. Clark, J. Hamelman, S. Burns-Leader, S. Senders, J. Jones, D. Benscher, M. Davis, G. Roth, S. Zwinger, M.E. Sorrells, J.C. Dawson. 2017. Evaluation of wheat and emmer varieties for artisanal baking, pasta making, and sensory quality. *J. Cereal Science,* 74:19-27. [doi:10.1016/j.jcs.2016.12.010](https://doi.org/10.1016/j.jcs.2016.12.010)
25. Krasileva, K.V., H. Vasquez-Gross, T. Howell1, P. Bailey, F. Paraiso, L. Clissold, J. Simmonds, R. H. Ramirez-Gonzalez, X. Wang, P. Borrill, C. Fosker, S. Ayling, A. Phillips, C. Uauy, J. Dubcovsky. 2017. Uncovering hidden variation in polyploid wheat. *Proc. Natl. Acad. Sci. U.S.A.* 114: E913–E921. [doi:10.1073/pnas.1619268114](https://doi.org/10.1073/pnas.1619268114)
26. Kruse, E.B., S.W. Carle, N. Wen, D.Z. Skinner, T.D. Murray, K.A. Garland-Campbell, A.H. Carter. 2017. Genomic regions associated with tolerance to freezing stress and snow mold in winter wheat. *G3* 7: 775-780 Early Online Published January 30, 2017. [doi:10.1534/g3.116.037622](https://doi.org/10.1534/g3.116.037622)
27. Lan, C., I. Lowe Hale, S.A. Herrera-Foessel, B.R. Basnet, M.S. Randhawa, J. Huerta-Espino, J. Dubcovsky and R.P. Singh. 2017. Characterization and mapping of leaf rust and stripe rust resistance loci in hexaploid wheat lines UC1110 and PI610750 under Mexican environments. *Frontiers in Plant Science.* [doi:10.3389/fpls.2017.01450](https://doi.org/10.3389/fpls.2017.01450)
28. Liang, X., Y. Liu, J. Chen, and C. Adams. 2017. Late-season photosynthetic rate and senescence were associated with grain yield in winter wheat of diverse origins. *J. Agro Crop Sci.* [doi:10.1111/jac.12231](https://doi.org/10.1111/jac.12231).
29. Li C-L., G. Bai, B. F. Carver, S. Chao and Z. Wang. 2016. Single nucleotide polymorphisms linked to quantitative trait loci for grain quality traits in wheat. *The Crop J.* 4:1–11. [doi:10.1016/j.cj.2015.10.002](https://doi.org/10.1016/j.cj.2015.10.002)
30. Li, C., Li, C., Carver, B. F., Bowden, R., Su, Z., Wang, Z., Bai, G. 2017. Mapping of Quantitative Trait Loci for Leaf Rust Resistance in the Wheat Population Ning7840 × Clark. *Plant Dis.* [doi:10.1094/PDIS-12-16-1743-RE](https://doi.org/10.1094/PDIS-12-16-1743-RE)
31. Lin M., D. Zhang, S. Liu, G. Zhang, J. Yu, A. K. F. and G. Bai. 2016. Genome-wide association analysis on pre-harvest sprouting resistance and grain color in U.S. winter wheat. *BMC Genomics* 17:794. [doi:10.1186/s12864-016-3148-6](https://doi.org/10.1186/s12864-016-3148-6)

32. Liu, Y., J. Zhang, Y. Hu, and J. Chen. 2017. Dwarfing genes *Rht4* and *Rht-B1b* affect plant height, agronomic traits, and kernel quality traits in common wheat under two water regimes. *Field Crops Research* 204: 242-248. [doi:10.1016/j.fcr.2017.01.020](https://doi.org/10.1016/j.fcr.2017.01.020)
33. Liu, Y., B.C. Bowman, Y. Hu, X. Liang, W. Zhao, J. Wheeler, N. Klassen, H. Bockelman, J. M. Bonman, J. Chen. 2017. Evaluation of agronomic traits and drought tolerance of winter wheat accessions from the National Small Grain Collection. *Agronomy*. 7(51) [doi:10.3390/agronomy7030051](https://doi.org/10.3390/agronomy7030051).
34. Liu, M., L. Lei, C. Powers, Z. Liu, K.G. Campbell, X. Chen, R.L. Bowden, B.F Carver, L. Yan. 2016. TaXA21-A1 on chromosome 5AL is associated with resistance to multiple pests in wheat. *Theoretical and Applied Genetics*. 129:345-355. [doi:10.1007/s00122-015-2631-9](https://doi.org/10.1007/s00122-015-2631-9)
35. Liu, N, G. Bai, M. Lin, X.Y. Xu, W.M. Zheng. 2017. Genome-wide association analysis of powdery mildew resistance in U.S. winter wheat. *Sci Rep*. 7: 11743. [doi:10.1038/s41598-017-11230-z](https://doi.org/10.1038/s41598-017-11230-z)
36. Lozada, D.N., R.E. Mason, M.D.A. Babar, B.F. Carver, G. Brown-Guedira, K. Merrill, M.N. Arguello, A. Acuna, L. Vieira, A. Holder, C.K. Addison, D.E. Moon, R.G. Miller, and S. Dreisigacker. 2017. Association mapping reveals loci associated with multiple traits that affect grain yield and adaptation in soft winter wheat. *Euphytica*. 213:222. [doi:10.1007/s10681-017-2005-2](https://doi.org/10.1007/s10681-017-2005-2)
37. Lu, Y., Bowden, R. L., Zhang, G., Xu, X., Fritz, A. K., Bai, G.. 2017. Quantitative trait loci for slow-rusting resistance to leaf rust in doubled haploid wheat population CI13227 x Lakin. *Phytopathology* 107:1372-1380. [doi: 10.1094/PHYTO-09-16-0347-R](https://doi.org/10.1094/PHYTO-09-16-0347-R)
38. Mason, R.E., Addison C.K., Babar M.D.A, Acuna, A., Lozada, D.N., Subramanian, N., Arguello, M.N., Miller, R.G., Brown-Guedira, G., Guedira, M., Johnson, J.W. 2017. Diagnostic markers for vernalization and photoperiod loci improve genomic selection for grain yield and spectral reflectance in wheat. *Crop Science*. 58:242-252. [doi:10.2135/cropsci2017.06.0348](https://doi.org/10.2135/cropsci2017.06.0348)
39. Mihalyov, P.D., V.A. Nichols, P. Bulli, M.N. Rouse, M.O. Pumphrey. 2017. Multi-locus mixed model analysis of stem rust resistance in winter wheat. *The Plant Genome*. 10(2). [doi:10.3835/plantgenome2017.01.0001](https://doi.org/10.3835/plantgenome2017.01.0001).
40. Muleta, K.T., M.N. Rouse, S. Rynearson, X. Chen, B. G. Buta, and M.O. Pumphrey. 2017. Characterization of molecular diversity and genome-wide mapping of loci associated with resistance to stripe rust and stem rust in Ethiopian bread wheat accessions. *BMC Plant Biology*. 17, 134. [doi:10.1186/s12870-017-1082-7](https://doi.org/10.1186/s12870-017-1082-7)
41. Muleta, K.T., P. Bulli, S. Rynearson, X. Chen, and M. Pumphrey. 2017. Loci Associated with Resistance to Stripe Rust (*Puccinia striiformis* f. sp. tritici) in a Core Collection of Spring Wheat (*Triticum aestivum*). *Plos One*. [doi:10.1371/journal.pone.017908](https://doi.org/10.1371/journal.pone.017908)
42. Muleta, K.T., P. Bulli, Z. Zhang, X. Chen, and M. Pumphrey. 2017. Unlocking diversity in germplasm collections by genomic selection: a case study based on quantitative adult plant resistance to stripe rust in spring wheat. *The Plant Genome*. 10(3) [doi:10.3835/plantgenome2016.12.0124](https://doi.org/10.3835/plantgenome2016.12.0124)

43. Nirmala, J., J. Saini, M. Newcomb, P. Olivera, S. Gale, D. Klindworth, E. Elias, L. Talbert, S. Chao, J. Faris, S. Xu, Y. Jin, and M.N. Rouse. 2017c. G3. 7: 3481-3490. [doi:10.1534/g3.117.300209](https://doi.org/10.1534/g3.117.300209)
44. Pour, H.A., M.R. Bihamta, V. Mohammadi, S.A. Peyghambari, G.H. Bai and G.R. Zhang. 2017. Genotyping-by-sequencing (GBS) revealed molecular genetic diversity of Iranian wheat landraces and cultivars. Front. Plant Sci. On line first [doi:10.3389/fpls.2017.01293](https://doi.org/10.3389/fpls.2017.01293)
45. Sallam, A.H., P. Tyagi, G. Brown-Guedira, G. Muehlbauer, A. Hulse, B.J. Steffenson. 2017. Genome-wide association mapping of stem rust resistance in *Hordeum vulgare* subsp. *spontaneum*. G3: Genes, Genomes, Genetics: g3-300222. [doi:10.1534/g3.117.300222](https://doi.org/10.1534/g3.117.300222)
46. Schönhofen, A., X. Zhang, and J. Dubcovsky. 2017. Combined mutations in five wheat *Starch Branching Enzyme II* genes increase resistant starch but affect grain yield and bread-making quality. Journal of Cereal Science 75: 165-174. [doi:10.1016/j.jcs.2017.03.028](https://doi.org/10.1016/j.jcs.2017.03.028)
47. Shi F., J. Tibbits, R.K. Pasam, P. Kay, D. Wong, J. Petkowski, K.L. Forrest, B.J. Hayes, A. Akhunova, J. Davies, S. Webb, G.C. Spangenberg, E. Akhunov, M.J. Hayden, H.D. Daetwyler. 2017. Exome sequence genotype imputation in globally diverse hexaploid wheat accessions. Theor Appl Genet. 130:1393-1404. [doi:10.1007/s00122-017-2895-3](https://doi.org/10.1007/s00122-017-2895-3)
48. Su Z., S. Jin, Y. Lu, G. Zhang, S. Chao, G. Bai. 2016. Single nucleotide polymorphism tightly linked to a major QTL on chromosome 7A for both kernel length and kernel weight in wheat. Mol Breed. 36:15. [doi:10.1007/s11032-016-0436-4](https://doi.org/10.1007/s11032-016-0436-4)
49. Subramanian, N., R.E. Mason, E.A. Milus, D.E. Moon, G. Brown-Guedira. 2016. Characterization of two adult-plant stripe rust resistance genes on chromosomes 3BS and 4BL in soft red winter wheat. Crop Science [doi:10.2135/cropsci2015.01.0043](https://doi.org/10.2135/cropsci2015.01.0043)
50. Tan, C.-T, S.O. Assanga, G. Zhang, J.C. Rudd, S. Haley, Q. Xue, A. Ibrahim, G. Bai, X. Zhang, P. Byrne, M.P. Fuentealba, S.Y. Liu. 2017. Development and validation of KASP SNP markers for wheat streak mosaic virus resistance gene *Wsm2*. Crop Sci. 57:340-349. [doi:10.2135/cropsci2016.04.0234](https://doi.org/10.2135/cropsci2016.04.0234)
51. Tan, C.-T., H. Yu, Y. Yang, X. Xu, M. Chen, J.C. Rudd, Q. Xue, A. Ibrahim, L. Garza, S. Wang, M.E. Sorrells, S.Y. Liu. 2017. Development and validation of KASP markers for the greenbug resistance gene *Gb7* and the Hessian fly resistance gene *H32* in wheat. Theor Appl Genet: 1-18. [doi:10.1007/s00122-017-2930-4](https://doi.org/10.1007/s00122-017-2930-4)
52. Turner, M.K., J.A. Kolmer, M.O. Pumphrey, P. Bulli, S. Chao, and J.A. Anderson. 2016. Association mapping of leaf rust resistance loci in a spring wheat core collection. Theor . Appl. Genet. 130:345–361. [doi:10.1007/s00122-016-2815-y](https://doi.org/10.1007/s00122-016-2815-y)
53. Uauy, C., B.B.H. Wulff, and J. Dubcovsky. 2017. Combining traditional mutagenesis with new high-throughput sequencing and genome editing to reveal hidden variation in polyploid wheat. Annu. Rev. Genet. 51: 435–454. [doi: 10.1146/annurev-genet-120116-024533](https://doi.org/10.1146/annurev-genet-120116-024533)
54. Varella, A. C., D. K. Weaver, J. P. Cook, N. K. Blake, M. L. Hofland, P. F. Lamb, L. E. Talbert. 2017. Characterization of resistance to the wheat stem sawfly in spring wheat

- landrace accessions from targeted geographic regions of the world. *Euphytica* 213:153. [doi:10.1007/s10681-017-1945-x](https://doi.org/10.1007/s10681-017-1945-x)
55. Varella, A.; D. Weaver, R. Peterson, J. Sherman, M. Hofland, N. Blake, J. Martin, L. Talbert. 2017. Host plant quantitative trait loci affect specific sequences in oviposition by a stem-mining insect. *Theor. Appl. Genet.* 130:187-197. [doi:10.1007/s00122-016-2805-0](https://doi.org/10.1007/s00122-016-2805-0)
 56. Veenstra, L.D., J-L. Jannink, M.E. Sorrells. 2017. Wheat fructans: a potential breeding target for nutritionally improved, climate resilient varieties. *Crop Science* 57:1624–1640. [doi: 10.2135/cropsci2016.11.0955](https://doi.org/10.2135/cropsci2016.11.0955)
 57. Wang, R., J. Chen, J. Zhang, W. Zhao, J. Wheeler, N. Klassen, J.A. Anderson, D.R. See and Y. Dong. 2017. Genome-wide association mapping of resistance QTL to fusarium head blight in spring wheat lines grown in Pacific Northwest and CIMMYT. *Phytopathology*. [doi:10.1094/PHYTO-02-17-0073-R](https://doi.org/10.1094/PHYTO-02-17-0073-R)
 58. Yu, L-X, S. Chao, R.P. Singh and M.E. Sorrells. 2017. Identification and Validation of Single Nucleotide Polymorphic Markers Linked to Ug99 Stem Rust Resistance in Spring Wheat. *PLOS ONE*. 12: e0171963. [doi: 10.1371/journal.pone.0171963](https://doi.org/10.1371/journal.pone.0171963)
 59. Zhang, W., S. Chen, Z. Abate, J. Nirmala, M. Rouse, and J. Dubcovsky. 2017. Identification and characterization of *Sr13*, a tetraploid wheat gene that confers resistance to the Ug99 stem rust race group. *Proc. Natl. Acad. Sci. U.S.A.* 114: E9483–E9492. [doi: 10.1073/pnas.1706277114](https://doi.org/10.1073/pnas.1706277114)
 60. Zhou, Y., B. Conway, D. Miller, D. Marshall, A. Cooper, P. Murphy, S. Chao, G. Brown-Guedira and J. Costa. 2017. Quantitative trait loci mapping for spike characteristics in hexaploid wheat. *Plant Genome*. 10. [doi:10.3835/plantgenome2016.10.0101](https://doi.org/10.3835/plantgenome2016.10.0101)