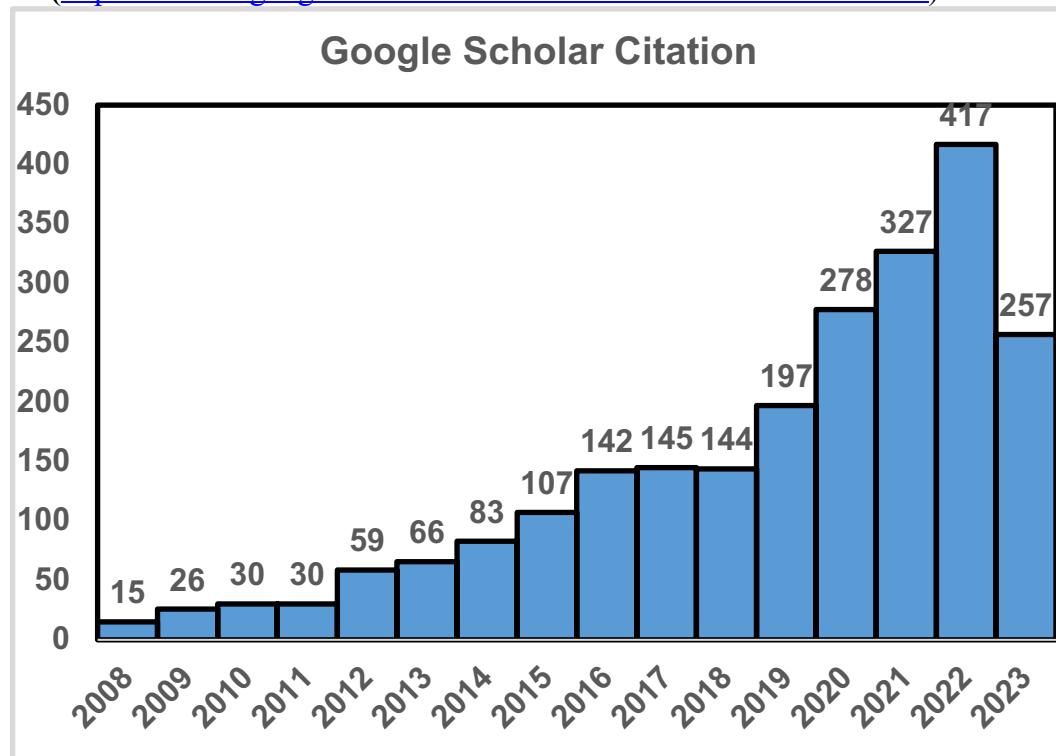


1. Refereed Journal Articles (98-career, google citation 2424, h-index 30, i-10 index 2; 74-since joined AgriLife Research; 36-since 2018; google citation since 2018 is 1669, h-index 23, i-10 index 44 by Oct. 17, 2023)

(<https://scholar.google.com/citations?hl=en&user=sw1nRIYAAAJ>)



- 1) Cerit M., Wang Z., Dogan M., Yu S., Valenzuela-Antelo J.L., Chu C., Wang S., Xue Q., Ibrahim A.M.H., Rudd J.C., Metz R., Johnson C.D., Liu S. 2023. Mapping QTL for Yield and Its Component Traits Using Wheat (*Triticum aestivum L.*) RIL Mapping Population from TAM 113 × Gallagher. *Agronomy* 13:2402
<https://doi.org/10.3390/agronomy13092402>
- 2) Bhandari, M., Chang, A., Jung, J., Ibrahim, A. M., Rudd, J. C., Baker, S., Landivar, J., Liu, S., & Landivar, J. 2023. Unmanned aerial system-based high-throughput phenotyping for plant breeding. *The Plant Phenome Journal*, 6(1), e20058.
<https://doi.org/10.1002/ppj2.20058>
- 3) Dogan, M., Wang, Z., Cerit, M., Valenzuela-Antelo, J. L., Dhakal, S., Chu, C., Xue, Q., Ibrahim, A. M. H., Rudd, J. C., Bernardo, A., St. Amand, P., Bai, G., Zhang, H., & Liu, S. 2023. QTL Analysis of Yield and End-Use Quality Traits in Texas Hard Red Winter Wheat. *Agronomy*, 13(3), 689. Doi: 2073-4395/13/3/689
- 4) Wang, Z., S. Dhakal, M. Cerit, S. Wang, Y. Rauf, S. Yu, F. Maulana, W. Huang, J. D. Anderson, X.-F. Ma, J. C. Rudd, A. M. H. Ibrahim, Q. Xue, D. B. Hays, A. Bernardo, P. St. Amand, G. Bai, J. Baker, S. Baker and S. Liu. 2022. QTL mapping of yield components and kernel traits in wheat cultivars TAM 112 and Duster. *Frontiers in Plant Science* 13. Doi: 10.3389/fpls.2022.1057701 (Cite: 1)
- 5) Fang, Z.-T., R. Kapoor, A. Datta, S. Liu, M. A. Stull, P. G. Seitz, C. D. Johnson and S. Okumoto. 2022. Transcriptome Analysis of Developing Grains from Wheat Cultivars TAM 111 and TAM 112 Reveal Cultivar-Specific Regulatory Networks. *International Journal of Molecular Sciences* 23(20): 12660.

- 6) Budak, H., B. Hussain, B. A. Akpinar, M. Alaux, A. M. Algharib, D. Sehgal, Z. Ali, G. I. Aradottir, J. Batley, A. Bellec, A. R. Bentley, H. B. Cagirci, L. Cattivelli, F. Choulet, J. Cockram, F. Desiderio, P. Devaux, M. Dogramaci, S. Dreisigacker, D. Edwards, K. El-Hassouni, K. Eversole, T. Fahima, M. Figueroa, S. Gálvez, K. S. Gill, L. Govta, A. Gul, G. Hensel, P. Hernandez, L. C. Herrera, A. Ibrahim, B. Kilian, V. Korzun, T. Krugman, Y. Li, **S. Liu**, A. F. Mahmoud, A. Morgounov, T. Muslu, F. Naseer, F. Ordon, E. Paux, D. Perovic, G. V. P. Reddy, J. C. Reif, M. Reynolds, R. Roychowdhury, J. Rudd, T. Z. Sen, S. Sukumaran, B. S. Ozdemir, V. K. Tiwari, N. Ullah, T. Unver, S. Yazar and R. Appels 2022. Capturing wheat phenotypes at the genome level. **Frontiers in Plant Science** 13. 851079. Doi: 10.3389/fpls.2022.851079
- 7) Chu C., S. Wang, J.C. Rudd, A.M.H. Ibrahim, Q. Xue, R.N. Devkota, J.A. Baker, S.A. Baker, B.E. Simoneaux, G.B. Opena, H. Dong, X. Liu, K.E. Jessup, M.-S. Chen, K. Hui, R.P. Metz, C.D. Johnson, Z. Zhang, **S.-Y. Liu***. 2021. A new strategy for using historical imbalanced yield data to conduct genome-wide association studies and develop genomic prediction models for wheat breeding. **Mol. Breed.** 42. Doi:10.1007/s11032-022-01287-8. (Cite: 2)
- 8) Sade, B., A. M. H. Ibrahim, N. Subramanian, J. Rudd, **S. Liu**, G. Opena and S. Baenziger 2022. Assessment of floral characteristics for hybrid wheat (*Triticum aestivum L.*) production in Texas. **Agrosystems, Geosciences & Environment** 5(1): e20228.
- 9) He, F., W. Wang, W. B. Rutter, K. W. Jordan, J. Ren, E. Taagen, N. DeWitt, D. Sehgal, S. Sukumaran, S. Dreisigacker, M. Reynolds, J. Halder, S. K. Sehgal, **S. Liu**, J. Chen, A. Fritz, J. Cook, G. Brown-Guedira, M. Pumphrey, A. Carter, M. Sorrells, J. Dubcovsky, M. J. Hayden, A. Akhunova, P. L. Morrell, L. Szabo, M. Rouse and E. Akhunov 2022. Genomic variants affecting homoeologous gene expression dosage contribute to agronomic trait variation in allopolyploid wheat. **Nature Commun.** 13(1): 826. **(Impact factor (IF): 14.92)**
- 10) Jordan, K., P. Bradbury, Z.R. Miller, M. Nyine, F. He, M. Fraser, J. Anderson, E. Mason, A. Katz, S. Pearce, A.H. Carter, S. Prather, M. Pumphrey, J. Chen, J. Cook, **S. Liu**, J.C. Rudd, Z. Wang, C. Chu, A.M.H. Ibrahim, J. Turkus, E. Olson, R. Nagarajan, B. Carver, L. Yan, E. Taagen, M. Sorrells, B. Ward, J. Ren, A. Akhunova, G. Bai, R. Bowden, J. Fiedler, J. Faris, J. Dubcovsky, M. Guttieri, G. Brown-Guedira, E. Buckler, J.-L. Jannink, E. Akhunov. 2021. Development of the wheat practical haplotype graph database as a resource for genotyping data storage and genotype imputation **G3: Gene, Genome and Genetics**. DOI: 10.1093/g3journal/jkab390 **(IF: 3.15)**
- 11) Yu, S. Assanga, S.O., J. Awika, A. Ibrahim, J.C. Rudd, Q. Xue, M.J. Guttieri, G. Zhang, J.A. Baker, K.E. Jessup, and **S.-Y. Liu***. 2021. Genetic mapping of quantitative trait loci for end-use quality and micronutrients in hard red winter wheat. **Agronomy**. 11: 2519. Doi: 10.3390/agronomy11122519. **(Cite: 4, IF: 4.11)**. Paper of Editor's Choice in 2023.
- 12) Gaurav, K., S Arora, P Silva, J. Sánchez-Martín, R. Horsnell, ... **S.-Y. Liu**, J.C. Rudd, ... C. Uacy, M. Mascher, A.R. Bently, B. Keller, J. Poland, B.B.H Wulff. 2021. Population genomic analysis of *Aegilops tauschii* identifies targets for bread wheat improvement. **Nature Biotechnology**. Doi: 10.1038/s41587-021-01058-4 **(Cite: 64, IF: 54.91)**
- 13) Dhakal S., X. Liu, C. Chu, Y. Yang, J.C. Rudd, A.M.H. Ibrahim, Q. Xue, R.N. Devkota, J.A. Baker, S.A. Baker, B.E. Simoneaux, G.B. Opena, R.L. Sutton, K.E. Jessup, K. Hui, S.Wang, C.D. Johnson, R.P. Metz, and **S.-Y. Liu***. 2021. Genome-wide QTL mapping of yield and agronomic traits in two widely adapted winter wheat cultivars 'TAM 111' and

- ‘TAM 112’ from multiple mega-environments. PeerJ. 9:e12350. Doi: 10.7717/peerj.12350. (**Cite: 6, IF: 2.98**)
- 14) Gill, B.K., D.L. Klindworth, M.N. Rouse, J. Zhang, Q. Zhang, J.S. Sharma, C. Chu, Y. Long, S. Chao, P.L. Olivera, T.L. Friesen, S. Zhong, Y. Jin, J.D. Faris, J.D. Fiedler, E.M. Eliasm, **S.-Y. Liu**, X. Cai, S.S. Xu. 2021. Function and evolution of allelic variations of Sr13 conferring resistance to stem rust in tetraploid wheat (*Triticum turgidum* L.). *The Plant Journal* 106:1674-1691. doi: <https://doi.org/10.1111/tpj.15263>. (**Cite:1, IF: 6.14**)
 - 15) Bhandari, M., Q. Xue, **S.-Y. Liu**, B.A. Stewart, J.C. Rudd, P. Pokhrel, et al. 2021. Thermal imaging to evaluate wheat genotypes under dryland conditions. **Agrosystems, Geosciences & Environment** 4: e20152. Doi: 10.1002/agg2.20152. (**IF:**)
 - 16) Abrouk, M., N. Athiyannan, T. Müller, Y. Pailles, C. Stritt, A.C. Roulin, C. Chu, **S.-Y. Liu**, T. Morita, H. Handa, J. Poland, B. Keller, and S.G. Krattinger. 2021. Population genomics and haplotype analysis in spelt and bread wheat identifies a gene regulating glume color. **Nature Communications Biology** 4, 375:1-11. <https://doi.org/10.1038/s42003-021-01908-6> (**3, 6.27**)
 - 17) Zhao, L., **S.-Y. Liu**, N.R. Abdelsalam, B.F. Carver and G. Bai. 2021. Characterization of wheat curl mite resistance gene Cmc4 in OK05312. **Theor. and Appl. Genet.** 134:993-1005. Doi: 10.1007/s00122-020-03737-3 (**12, 4.44**)
 - 18) Chu, C., S. Wang, J.C. Rudd, Q. Xue, A.M.H. Ibrahim, R. Metz, C.D. Johnson, and **S.-Y. Liu***. 2021. RNA-seq analysis reveals different drought tolerance mechanisms in broadly adapted wheat cultivars ‘TAM 111’ and ‘TAM 112’. **Scientific Reports**. 11:4301. Doi: 10.1038/s41598-021-83372-0 (**17, 4.38**)
 - 19) Dhakal, S., X. Liu, A. Girard, C. Chu, Y. Yang, S. Wang, Q. Xue, J.C. Rudd, A.M.H. Ibrahim, J.M. Awika, K.E. Jessup, J.A. Baker, L. Garza, R.N. Devkota, S. Baker, C.D. Johnson, R.P. Metz, **S.-Y. Liu***. 2021. Genetic dissection of end-use quality traits in two widely-adapted wheat cultivars ‘TAM 111’ and ‘TAM 112’. **Crop Sci.** 61:1944-1959. Doi: 10.1002/csc.220415 (**9, 1.88**)
 - 20) Maulana, F., K-S. Kim, J.D. Anderson, M.E. Sorrells, T.J. Butler, **S.-Y. Liu**, P.S. Baenziger, P.F. Byrne, and X-F. Ma. 2021. Genomic Selection of Forage Agronomic Traits in Winter Wheat. **Crop Sci.** 61:410-421. (**3, 1.88**)
 - 21) Thapa, S., J.C. Rudd, K.E. Jessup, **S. Liu**, J.A. Baker, R.N. Devkota, Q. Xue. 2021. Middle portion of the wheat culm remobilizes more carbon reserve to grains under drought. *Journal of Agronomy and Crop Science*. Doi: 10.1111/jac.12508 (**, 3.06**)
 - 22) Yang, Y., S. Dhakal, C. Chu, S. Wang, Q. Xue, J.C. Rudd, A.M.H. Ibrahim, K. Jessup, J. Baker, M.P. Fuentealba, R. Devkota, S. Baker, C.D. Johnson, R. Metz, **S.-Y. Liu***. 2020. Genome wide identification of QTL associated with yield and yield components in two popular wheat cultivars TAM 111 and TAM 112. **Plos One** 15(12) e0237293. Doi: 10.1371/journal.pone.0237293 (**20, 3.24**)
 - 23) Thapa, S., Q. Xue, K. E. Jessup, J. C. Rudd, **S.-Y. Liu**, R. N. Devkota, and J. A. Baker. 2020. Soil water extraction and use by winter wheat cultivars under limited irrigation in a semi-arid environment. **J. Arid Environ.** 174, 104046. (**9, 1.825**) (data analyses and interpretation)
 - 24) Seethepalli, A., H. Guo, X. Liu, M. Griffiths, H. Almtarfi, Z. Li, **S.-Y. Liu** et al. 2020. RhizoVision Crown: An integrated hardware and software platform for root crown

- phenotyping. **Plant Phenomics** 2020: 15. Doi:10.34133/2020/3074916. (33,) (provide research materials, data analyses and interpretation, draft review and editing).
- 25) Yang, Y., B.R. Basnet, A.M.H. Ibrahim, J.C. Rudd, X. Chen, R.L. Bowden, Q. Xue, R.D. Devkota, S. Wang, C.D. Johnson, R. Metz, R.E. Mason, D.B. Hays and **S.-Y. Liu***. 2019. Developing KASP markers on a major stripe rust resistance QTL in a popular wheat TAM 111 using 90K array and genotyping-by-sequencing SNPs. **Crop Sci.** 59:165-175. Doi:10.2135/cropsci2018.05.0349 (16, 1.88)
- 26) Maulana F., K-S. Kim, J.D. Anderson, M.E. Sorrells, T. J. Butler, **S.-Y. Liu**, P. S. Baenziger, P.F. Byrne, and X-F. Ma. 2019. Genomic selection of forage quality traits in winter wheat. **Crop Sci.** 59:2473-2483. (4, 1.88) (provide research materials, suggestions on data analyses and interpretation, draft review and editing)
- 27) Mahmoudi, T.R., J.M. Yu, **S.-Y. Liu**, L.S. Pierson and E.A. Pierson. 2019. Drought-Stress tolerance in wheat seedlings conferred by phenazine-producing rhizobacteria. **Frontiers in Microbiology** 10. Doi:10.3389/fmicb.2019.01590. (19, 4.076) (provide research materials, suggestions on data analyses and interpretation, draft review and editing)
- 28) Thapa, S., J.C. Rudd, Q. Xue, M. Bhandari, S.K. Reddy, K.E. Jessup, **S.-Y. Liu** et al. 2019. Use of NDVI for characterizing winter wheat response to water stress in a semi-arid environment. **J. of Crop Improv.**: 1-16. Doi:10.1080/15427528.2019.1648348. (17, 1.4) (provide research materials, suggestions on data analyses and interpretation, draft review and editing)
- 29) Ayalew H., P.W. Tsang, C. Chu, J. Wang, **S.-Y. Liu**, C. Chen, X. Ma. 2019. Comparison of TaqMan, KASP and rhAmp SNP genotyping platforms in hexaploid wheat. **Plos One** 14(5): e0217222. <https://doi.org/10.1371/journal.pone.0217222> (33, 3.24) (provide research materials, suggestions on data analyses and interpretation, draft review and editing)
- 30) Thapa, S., Q. Xue, K.E. Jessup, J.C. Rudd, **S.-Y. Liu**, T.H. Marek, R. N. Devkota, J. Baker, S. Baker. 2019. Yield determination in winter wheat under different water regimes. **Field Crop Res.** 233:80-87. (22, 5.2) (provide research materials, suggestions on data analyses and interpretation, draft review and editing)
- 31) Nyine, M., S. Wang, K. Kiani, K. Jordan, **S.-Y. Liu**, P. Byrne, S. Haley, S. Baenziger, S. Chao, R. Bowden, E. Akhunov. 2019. Genotype imputation in winter wheat using first-generation haplotype map SNPs improves genomewide association mapping and genomic predictions of traits. **G3.9**:125-133. G3/2018/200664 (8, 3.15) (provide suggestions on data analyses and interpretation, draft review and editing)
- 32) Olanrewaju, S. A., N. Rajan, A. M. H. Ibrahim, J. C. Rudd, **S.-Y. Liu**, R. Sui, K. E. Jessup, and Q. Xue*. 2019. Using aerial imagery and digital photography to monitor growth and yield in winter wheat. **International J. Remote Sensing** 40: 6905-6929. (2, 1.724) (provide suggestions on data analyses and interpretation, draft review and editing)
- 33) Rudd, J. C., R.N. Devkota, A.M.H. Ibrahim, J. A. Baker, S. Baker, R. Sutton, B. Simoneaux, G. Opeña, D. Hathcoat, J.M. Awika, L.R. Nelson, **S.-Y. Liu**, Q. Xue, B. Bean, C.B. Neely, R.W. Duncan, B.W. Seabourn, R.L. Bowden, Y. Jin, M.-S. Chen, and R.A. Graybosch. 2019. ‘TAM 204’ wheat, adapted to grazing, grain, and graze-out production systems in the Southern High Plains. **J. of Plant Reg.** 13:377-382. (2, 0.38) Doi:10.3198/jpr2018.12.0080crc. (Cite: 6, IF: 0.33) (work with the breeding pipeline, screen mite resistance data)
- 34) Dhakal, S., C.-T. Tan, V. Anderson, H. Yu, M.P. Fuentealba, J.C. Rudd, S.D. Haley, Q. Xue, A.M.H. Ibrahim, L. Garza, R. Devkota, **S.-Y. Liu***. 2018. Mapping and KASP

- marker development for wheat curl mite resistance in ‘TAM 112’ wheat using linkage and association analysis. **Mol. Breed.** 38:119. Doi: 10.1007/s11032-018-0879-x (29, 2.6)
- 35) Rudd, J.C., Devkota, R.N., A. M. Ibrahim, J.A. Baker, S. Baker, M.D. Lazar, R. Sutton, B. Simoneaux, G. Opeña, L.W. Rooney, J. M. Awika, **S.-Y. Liu**, Q. Xue, B. Bean, R.W. Duncan, R.L. Bowden, B.W. Seabourn, Y. Jin, M.-S. Chen, and R.A. Graybosch. 2018. TAM 114 wheat, excellent bread making-quality hard red winter wheat cultivar adapted to the Southern High Plain. **J. Plant Reg.** 12:367-372. Doi:10.3198/jpr2017.11.0081crc (11, 0.38) (work with the breeding pipeline)
- 36) Thapa, S., S.K. Reddy, M.P. Fuentealba, Q. Xue, J.C. Rudd, **S.-Y. Liu***. 2018. Physiological responses to water stress and yield of winter wheat cultivars differing in drought tolerance. **J. of Agronomy and Crop Sci.** 204:347-358. (17, 2.73)
- 37) Thapa, S., K.E. Jessup, G.P. Pradhan, J.C. Rudd, **S.-Y. Liu**, J.R. Mahan, et al. 2018. Canopy temperature depression at grain filling correlates to winter wheat yield in the US Southern High Plains. **Field Crops Research** 217: 11-19. (49, 5.2) (provide suggestions on data analyses and interpretation, draft review and editing)
- 38) 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***. 2017b. 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. (55, 3.24)
- 39) Thapa, S., Q. Xue, K.E. Jessup, J.C. Rudd, **S.-Y. Liu**, G.P. Pradhan, et al. 2017. More recent wheat cultivars extract more water from greater soil profile depths to increase yield in the Texas High Plains. **Agronomy J.** 109: 2771-2780.
Doi:10.2134/agronj2017.02.0064 (14, 1.614) (provide suggestions on data analyses and interpretation, draft review and editing)
- 40) 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***. 2017b. Development and validation of KASP markers for the greenbug resistance gene Gb7 and the Hessian fly resistance gene H32 in wheat. **Theor Appl Genet** 130:1867-1884. Doi:10.1007/s00122-017-2930-4. (59, 4.44)
- 41) 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***. 2017a. 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 (31, 1.88)
- 42) Assanga, S.O., G. Zhang, C.-T. Tan, J.C. Rudd, A. Ibrahim, Q. Xue, S. Chao, M.P. Fuentealba, **S.-Y. Liu***. 2017a. Saturated genetic map of wheat streak mosaic virus resistance gene *wsm2* in wheat. **Crop Sci.** 57:332-339. Doi: 10.2135/cropsci2016.04.0233. *Corresponding author. (15, 1.88)
- 43) Dhakal, S., C.-T. Tan, L. Paezold, M.P. Fuentealba, J.C. Rudd, B.C. Blaser, Q. Xue, C.M. Rush, R.N. Devkota, **S.-Y. Liu***. 2017. Wheat curl mite resistance in hard winter wheat in the U.S. Great Plains. **Crop Sci.** 57:53-61. Doi: 10.2135/cropsci2016.02.0121
*Corresponding author. (19, 1.88)
- 44) Grogan, S.M., J. Anderson, P.S. Baenziger, K. Frels, M.J. Guttieri, S.D. Haley, K-S. Kim, **S.-Y. Liu**, G.S. McMaster, M. Newell, P.V. Vara Prasad, S.D. Reid, K.J. Shroyer, G. Zhang, E. Akhunov, and P.F. Byrne. 2016. Phenotypic plasticity of winter wheat heading date and grain yield across the U.S. Great Plains. **Crop Sci.** 2223-2336. (56, 1.88)
(provide suggestions on data analyses and interpretation, draft review and editing)

- 45) **Liu, S.-Y.***, S. Assanga, S. Dhakal, X. Gu, C.-T. Tan, Y. Yang, J.C. Rudd, D.B. Hays, A.M. Ibrahim, Q. Xue, S. Chao, R. Devkota, C. Shachter, T. Huggins, S. Mohammed, M.P. Fuentealba. 2016. Validation of chromosomal locations of 90K array SNP in US wheat. **Crop Sci.** 56:364–373. Doi: 10.2135/cropsci2015.03.0194 (37, 1.88)
- 46) Ajayi, S., S.K. Reddy, P.H. Gowda, Q. Xue, J.C. Rudd, G. Pradhan, **S.-Y. Liu**, B.A. Stewart, C. Biradar, and K.E. Jessup. 2016. Spectral reflectance models for characterizing winter wheat genotypes. **J. of Crop Improv.** 30:176–195. (9, 0.63) (provide suggestions on data analyses and interpretation, draft review and editing)
- 47) **Liu, S.-Y.***, J.C. Rudd, G. Bai, S.D. Haley, A.M.H. Ibrahim, Q. Xue, D.B. Hays, R.A. Graybosch, R.A. Devokota, P.S. Amand. 2014. Molecular markers linked to important genes in hard winter wheat. **Crop Sci.** 54:1304–1321. Doi: 10.2135/cropsci2013.08.0564. (79, 1.88)
- 48) Reddy, S.K., **S.-Y. Liu***, J.C. Rudd, Q. Xue, P. Payton, S.A. Finlayson, J. Mahan, A. Akhunova, S.V. Holalu, N. Lu. 2014. Physiology and transcriptomics of water-deficit stress responses in wheat cultivars, TAM 111 and TAM 112. **J. Plant Physiol.** 171:1289–1298. (51, 3.12)
- 49) O’Boyle, P.D., W.S. Brooks, M. D. Barnett, G.L. Berger, B.J. Steffenson, E.L. Stromberg, M.A. Saghai Maroof, **S.-Y. Liu**, C.A. Griffey. 2014. Mapping net blotch resistance in ‘Nomini’ and Ciho 2291 barley. **Crop Sci.** 54:2596–2602. Doi:10.2135/cropsci2013.08.0514. (8, 1.88)
- 50) Pradhan, G., Q. Xue, **S.-Y. Liu**, J. C. Rudd, and K. E. Jessup. 2014. Effective use of soil water contributed to high yield in wheat in the U.S. Southern High Plains. **J. Arid Land Studies.** 24:153–156. (3,)
- 51) Pradhan, G., Q. Xue, J. C. Rudd, K. E. Jessup, **S.-Y. Liu**, R. N. Devkota, and J. R. Mahan. 2014. **Cooler canopy contributes to higher yield and drought tolerance in new wheat cultivars.** **Crop Sci.** 54:2275–2284. Doi:10.2135/cropsci2013.11.0788 (25, 1.88)
- 52) Basnet, B.R., A.M.H. Ibrahim, X. Chen, R.P. Singh, E.R. Mason, **S.-Y. Liu**, R.N. Devkota, N.K. Subramanian, and J.C. Rudd. 2014. Molecular mapping of stripe rust resistance in hard red winter wheat TAM 111 adapted to the U.S. High Plains. **Crop Sci.** 54:1361–1373. (36, 1.88)
- 53) Berger, G., A. Green, P. Khatibi, W.S. Brooks, L. Rosso, **S.-Y. Liu**, C.A. Griffey, D. Schmale III. 2014. Characterization of Fusarium head blight (FHB) resistance and deoxynivalenol accumulation in hulled and hulless winter barley. **Plant Dis.** 98:599–606. 2048/10.1094/PDIS-05-13-0479-RE. (12, 4.44)
- 54) Xue, Q., J.C. Rudd, **S.-Y. Liu**, K.E. Jessup, R.N. Devkota, and J.R. Mahan. 2014. Yield determination and water use efficiency of wheat under water-limited conditions in the U.S. Southern High Plains. **Crop Sci.** 54:34–47. Doi: 10.2135/cropsci2013.02.0108. (76, 1.88)
- 55) Reddy, S.K., Y. Weng*, J.C. Rudd, A. Akhunova, **S.-Y. Liu***. 2013. Transcriptomics of induced defense responses to greenbug aphid feeding in near isogenic wheat lines. **Plant Sci.** 212:26–36. Doi: 10.1016/j.plantsci.2013.08.002 (22, 4.73)
- 56) **Liu, S.-Y.***, C.A. Griffey*, M.D. Hall, A.L. McKendry, J. Chen, W.S. Brooks, G. Brown-Guedira, D. Van Sanford, and D.G. Schmale. 2013. Molecular characterization of field resistance to Fusarium head blight in two U.S. soft red winter wheat cultivars. **Theor. Appl. Genet.** 126:2485–2498. Doi: 10.1007/s00122-013-2149-y. (93, 4.44)
- 57) Brooks, W.S., M.E. Vaughn, G.L. Berger, C.A. Griffey, W.E. Thomason, J.J. Paling,

- R.M. Pitman, D.W. Dunaway, R.A. Corbin, J.C. Kenner, E.G. Hokanson, H.D. Behl, B.R. Beahm, **S.-Y. Liu** et al. 2013. Registration of 'Eve' winter hulless barley. 2013. **J. Plant Reg.** 7:5–11. (3, 0.38)
- 58) Christopher, M.D., **S.-Y. Liu**, M.D. Hall, D.S. Marshall, M.O. Fountain, J.W. Johnson, E.A. Milus, K.A. Garland-Campbell, X. Chen, and C.A. Griffey. 2013. Identification and mapping of adult plant stripe rust resistance in soft red winter wheat VA00W-38. **Crop Sci.** 53:871–879. Doi: 10.2135/cropsci2012.02.0086. (17, 1.88)
- 59) Christopher, M.D., **S.-Y. Liu**, M.D. Hall, D.S. Marshall, M.O. Fountain, J.W. Johnson, E.A. Milus, K.A. Garland-Campbell, X. Chen, and C.A. Griffey. 2013. Identification and mapping of adult-plant stripe rust resistance in soft red winter wheat cultivar USG 3555. **Plant Breed.** 132:53–60. Doi:10.1111/pbr.12015. (24, 1.73)
- 60) Berger, G.L. **S.-Y. Liu**, M.D Hall, W.S. Brooks, S. Chao, G.J. Muehlbauer, B-K Baik, B. Steffenson, C.A. Griffey. 2013. Marker-trait associations in Virginia Tech winter barley identified using genome-wide mapping. **Theor. Appl. Genet.** 126:693–710. (82, 44)
- 61) **Liu, S.-Y.**, C.A. Griffey, M.D. Hall, J. Chen, S.-Y. Liu, D. Tucker, W.S. Brooks. 2012. Registration of Becker/Massey wheat recombinant inbred line mapping population. **J. Plant Reg.** 3:358–362. Doi:10.3198/jpr2012.01.0013crmp (6, 0.38)
- 62) **Liu, S.-Y.**, M.D. Christopher, C.A. Griffey, M.D. Hall, P.G. Gundrum, and W.S. Brooks. 2012. Molecular characterization of resistance to Fusarium head blight in U.S. soft red winter wheat breeding line VA00W-38. **Crop Sci.** 52: 2283–2292. Doi:10.2135/cropsci2012.03.0144 (43, 1.88)
- 63) Chen, J., C.A. Griffey, **S.-Y. Liu**, M. A. Saghai-Maroof. 2012. Release of scab resistance wheat germplasm VA04W-433, VA04W-474. **J. of Plant Reg.** 6:111–116. (8, 0.38)
- 64) Khatibi, P.A., G. Berger, **S.-Y. Liu**, W.S. Brooks, C.A. Griffey, D.G. Schmale III. 2012. Resistance to Fusarium head blight and deoxynivalenol accumulation in Virginia barley. **Plant Dis.** 96:279–284. (24, 4.44)
- 65) Brooks, W.S., M.E. Vaughn, C.A. Griffey, W.E. Thomason, J.J. Paling, R.M. Pitman, D.W. Dunaway, R.A. Corbin, J.C. Kenner, E.G. Hokanson, H.D. Behl, B.R. Beahm, **S.-Y. Liu**, et al. 2011. Registration of 'Dan' winter hulless barley. **J. Plant Reg.** 5:1–4. (3, 0.38)
- 66) Griffey, C.A., W.E. Thomason, R.M. Pitman, B.R. Beahm, J.J. Paling, J. Chen, P.G. Gundrum, J.K. Fanelli, D.W. Dunaway, W.S. Brooks, M.E. Vaughn, E.G. Hokanson, H.D. Behl, R.A. Corbin, J.E. Seago, B.C. Will, M.D. Hall, **S.-Y. Liu**, et al. 2011a. Registration of 'Merl' wheat. **J. Plant Reg.** 5: 68–74. (3)
- 67) Griffey, C.A., W.E. Thomason, R.M. Pitman, B.R. Beahm, P.G. Gundrum, **S.-Y. Liu**, et al. 2011b. Registration of 'SW049029104' wheat. **J. Plant Reg.** 5:91–97. (1)
- 68) Hall, M.D., C.A. Griffey, A. Green, **S.-Y. Liu**, et al. 2011a. Registration of 'Vision 30' wheat. **J. Plant Reg.** 5:353–359. (5)
- 69) Hall, M.D., C.A. Griffey, A. Green, **S.-Y. Liu**, et al. 2011b. Registration of 'Vision 40' wheat. **J. Plant Reg.** 5:360–366. (3)
- 70) Hall, M.D., W. Rohrer-Perkins, C.A. Griffey, **S.-Y. Liu**, et al. 2011c. Registration of 'Snowglen' winter durum wheat. **J. Plant Reg.** 5:81–86. (3)
- 71) **Liu, S.-Y.**, K. Yu, M. Haffner, S.J. Park, M. Banik, P.K. Pauls, and W. Crosby. 2010. Construction of a BAC library and a physical map of the major QTL for CBB resistance in common bean. **Genetica** 138:709–716. (11, 2.15)

- 72) Hall, M.D., C.A. Griffey, D. Tucker, **S.-Y. Liu**, et al. 2010. Registration of USG 3209/Jaypee wheat recombinant inbred line mapping population. **J. of Plant Reg.** 4:159–162. (3)
- 73) Griffey, C.A., W.E. Thomason, R.M. Pitman, B.R. Beahm, J.J. Paling, J. Chen, J.K. Fanelli, J.C. Kenner, D.W. Dunaway, W.S. Brooks, M.E. Vaughn, E.G. Hokanson, H.D. Behl, R.A. Corbin, M.D. Hall, **S.-Y. Liu**, et al. 2010. Registration of ‘Jamestown’ wheat. **J. of Plant Reg.** 4:28–33. (25)
- 74) Griffey, C.A., W. E. Thomason, R. M. Pitman, B. R. Beahm, J. J. Paling, J. Chen, P. G. Gundrum, J. K. Fanelli, J. C. Kenner, D. W. Dunaway, W. S. Brooks, M. E. Vaughn, E. G. Hokanson, H. D. Behl, R. A. Corbin, M. D. Hall, **S.-Y. Liu**, et al. 2010. Registration of ‘Shirley’ wheat. **J. of Plant Reg.** 4:38–43. (7)
- 75) Griffey, C.A., W. E. Thomason, R. M. Pitman, B. R. Beahm, J. J. Paling, J. Chen, P. G. Gundrum, J. K. Fanelli, J. C. Kenner, D. W. Dunaway, W. S. Brooks, M. E. Vaughn, E. G. Hokanson, H. D. Behl, R. A. Corbin, M. D. Hall, **S.-Y. Liu**, et al. 2010. Registration of ‘3434’ wheat. **J. of Plant Reg.** 4:44–49.
- 76) Griffey, C.A., W.E. Thomason, R.M. Pitman, B.R. Beahm, J.J. Paling, J. Chen, J.K. Fanelli, J.C. Kenner, D.W. Dunaway, W.S. Brooks, M.E. Vaughn, E.G. Hokanson, H.D. Behl, R.A. Corbin, M.D. Hall, **S.-Y. Liu** et al. 2009. Registration of ‘USG3555’ wheat. **J. of Plant Reg.** 3: 273–278. (5)
- 77) Griffey, C.A., W.E. Thomason, R.M. Pitman, B.R. Beahm, J.J. Paling, J. Chen, P.G. Gundrum, J.K. Fanelli, J.C. Kenner, D. W. Dunaway, W.S. Brooks, M.E. Vaughn, E.G. Hokanson, H.D. Behl, R.A. Corbin, M.D. Hall, **S.-Y. Liu** et al. 2009. Registration of ‘5205’ wheat. **J. of Plant Reg.** 3:283–288. (4)
- 78) **Liu, S.-Y.**, K. Yu, S.J. Park. 2009. Marker-assisted breeding for resistance to common bacterial blight in common bean. Plant Breeding, Huttunen, N., and Sinisalo, T.(eds), 211–226. (5)
- 79) **Liu, S.-Y.**, M.D. Hall, C.A. Griffey, A.L. McKendry. 2009. Meta-analyses of Fusarium head blight resistance QTL in wheat. **Crop Sci.** 49:1955–1968.
Doi:10.2135/cropsci2009.03.0115 (265)
- 80) **Liu, S.-Y.**, K. Yu, S.J. Park. 2008. Development of STS markers and QTL validation for common bacterial blight resistance in common bean. **Plant Breed.** 127: 62–68. (45, 1.83)
- 81) Abate Z., **S.-Y. Liu**, A.L. McKendry. 2008. QTL associated with resistance to deoxynivalenol and Fusarium damaged kernel in a soft red winter wheat Ernie. **Crop Sci.** 48:1408–1418. (40)
- 82) **Liu, S.-Y.**, Z. Abate, H. Lu, T. Musket, G. Davis, A.L. McKendry. 2007. QTL associated with Fusarium head blight resistance in soft red winter wheat ‘Ernie’. **Theor. Appl. Genet.** 115:417–427. (127, 4.44)
- 83) **Liu, S.-Y.**, M. Banik, K. Yu, S.J. Park, V. Poysa, Y, Guan. 2007. Marker-assisted selection in major cereal and legume crops-current progress and future direction. **International Journal of Plant Breeding** 1:74–88. (9)
- 84) Banik, M., **S.-Y. Liu**, K. Yu, V. Poysa, S.J. Park. 2007. Molecular TILLING and EcoTILLING: effect tools for mutant gene detection in plants. **In Genes, Genomes and Genomics**, 1:123–132. (5)
- 85) **Liu, S.-Y.**, Z. A. Abate, A. L. McKendry. 2005. Inheritance of Fusarium head blight resistance in the soft red winter wheat Ernie. **Theor. Appl. Genet.** 110:454–461. (46, 4.44)

- 86) Zhang Y., J. S. Quick, **S.-Y. Liu**. 1998. Genetic Variation in PI 294994 wheat for resistance to Russian Wheat Aphid. *Crop Sci.* 38:527–530. (39)
- 87) Authored or co-authored 12 papers in peer-reviewed journals in Chinese on wheat mutation breeding.