

Curriculum Vitae

Guorong Zhang

Professor
Wheat Breeding and Genetics
Agricultural Research Center-Hays
Kansas State University
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Education:

May 2003 ~ May 2007

Doctor of Philosophy in Plant Breeding and Genetics
Department of Plant Sciences, North Dakota State University, Fargo, ND
Dissertation title: *Kernel shattering and its relationship with Fusarium head blight and other traits in wheat*

Sept. 1998 ~ Aug 2001

Master of Science in Genetics
Department of Biology, Zhejiang University, Hangzhou, China
Thesis title: *Studies on heredity, growth and development, physio-biochemistry of albino-lemma barley*

Sept. 1990 ~ July 1994

Bachelor of Agriculture in Agronomy, Specialization of Seed Science
Department of Agronomy, Zhejiang Agricultural University, Hangzhou, China
Thesis title: *Studies on heterosis of barley hybrids of karyocyttoplasmic interaction type*

Professional Experience:

July 2022 ~ present

Professor, Kansas State University, Manhattan, KS
Research area: Wheat breeding and genetics

July 2017 ~ June 2022

Associate Professor, Kansas State University, Manhattan, KS
Research area: Wheat breeding and genetics

Feb. 2012 ~ June 2017

Assistant Professor, Kansas State University, Manhattan, KS
Research area: Wheat breeding and genetics

June 2010 ~ Jan. 2012

Assistant Professor, Tennessee State University, Nashville, TN
Research area: Biofuel crop breeding and genetics

June 2007 ~ June 2010

Postdoc Research Associate, Michigan State University, East Lansing, MI

Research areas: ~ Genetic mapping for soybean aphid-resistance genes
~ Soybean breeding and genetics
~ QTL mapping for fruit size and quality traits in sweet cherry

May 2003 ~ May 2007

Graduate Research Assistant, North Dakota State University, Fargo, ND

Research area: ~ Kernel shattering, *Fusarium* head blight, and other agronomic traits in hard red spring wheat
~ Wheat breeding and genetics

Sept. 1997 ~ April 2003

Research Assistant Professor & Barley Breeder, Shanghai Academy of Agricultural Sciences, China

Research area: Barley breeding and genetics

Aug. 1994 ~ Aug. 1997

Research Associate, Shanghai Academy of Agricultural Sciences, China

Research area: Barley breeding and genetics

Teaching Experience:

June 2010 ~ Feb. 2012, Tennessee State University

- Taught **Principles of Crop Science**, AGSC3210, 2011 Fall term
- Taught **Plant Breeding**, AGSC5190, 2011 Spring term
- Jointly taught **Plant Breeding**, AGSC4310, 2010 Fall term

June 2007 ~ May 2010, Michigan State University

- Jointly taught **Quantitative Genetics in Plant Breeding**, CSS941, 2008 & 2010 Spring terms
- Jointly taught **Molecular Plant Breeding**, short course for international visiting scholars, 2009 Summer term
- Provided research supervision to 10+ high school interns, undergraduate and graduate students, and visiting scholars

June 1995 ~ May 2003, Shanghai Academy of Agricultural Sciences

- Provided research supervision to 20+ undergraduate students during their thesis project research

Awards and Honors:

2016 Team Award, College of Agriculture, K-State

2010 Travel award for attending the Grantsmanship Workshop sponsored by National Institute of Food and Agriculture, USDA

2006 Honor Society of Agriculture, Gamma Sigma Delta

Variety Development:

Released Wheat Varieties (10)

- Oakley CL
- Joe
- Tatanka
- KS Venada
- KS Dallas
- KS Western Star
- KS Silverado
- KS Hamilton
- KS Territory
- KS Big Bow

Released Wheat Germplasm Line (1)

- KS05HW14

Co-released Wheat Varieties (10)

- KanMark
- Hot Rod
- Larry
- Zenda
- Bob Dole
- AG Icon
- AM Cartwright
- KS Hatchet
- KS Ahearn
- KS Providence

Co-released Wheat Germplasm Line (1)

- KS17WGRC62

Released Barley Varieties (2)

- Humai 14
- Humai 16

Co-released Barley Variety (1)

- NB15420

Publications:

U.S. Patent (1)

- Markers for aphid resistant germplasm in soybean plants. 2012. Patent No. US8227662.

Plant Variety Protection Certificate (16)

- Wheat, “KS Hamilton”, Certificate No. 202100368.
- Wheat, “AM Cartwright”, Certificate No. 202100489.
- Wheat, “KS Hatchett”, Certificate No. 202100488.
- Wheat, “KS Silverado”, Certificate No. 202000289.
- Wheat, “KS Western Star”, Certificate No. 202000288.
- Wheat, “KS Dallas”, Certificate No. 202000287.
- Wheat, “KS Venada”, Certificate No. 201900192.
- Wheat, “AG Icon”, Certificate No. 201900179.
- Wheat, “Bob Dole”, Certificate No. 201900177.
- Wheat, “Zenda”, Certificate No. 201700282.
- Wheat, “Larry”, Certificate No. 201700281.
- Wheat, “Tatanka”, Certificate No. 201700131.
- Wheat, “Joe”, Certificate No. 201600082.
- Wheat, “KanMark”, Certificate No. 201500379.
- Wheat, “Hot Rod”, Certificate No. 201500380.
- Wheat, “Oakley CL”, Certificate No. 201400132.

Refereed Journal Articles (72)

- 1 Guttieri M., R. Bowden, **G. Zhang**, S. Haley, K. Frels, G. Hein, and K. Jordan. 2022. Agronomic and quality impact of a shortened translocation for wheat streak mosaic virus resistance. *Crop Science*. DOI:10.1002/csc2.20876. <https://doi.org/10.1002/csc2.20876>
- 2 **Zhang G.**, T.J. Martin, A.K. Fritz, Y. Li, B.W. Seabourn, R.Y. Chen, G. Bai, R.L. Bowden, M.S. Chen, J. Rupp, Y. Jin, X. Chen, J.A. Kolmer, and D. Marshall. 2022. Registration of ‘KS Hamilton’ hard red winter wheat. *Journal of Plant Registrations*. 16:73-79.
- 3 Lopez S.R., A.T. Wiersma, N.M. Strauss, T. Watkins, B. Baik, **G. Zhang**, S.K. Sehgal, F.L. Kolb, J.A. Poland, R.E. Mason, A.H. Carter, and E.L. Olson. 2022. Description of U6719-004 wheat germplasm with YrAS2388R stripe rust resistance introgression from *Aegilops tauschii*. *Journal of Plant Registrations*. <https://doi.org/10.1002/plr2.20226>.
- 4 Tian W., Y. Zheng, W. Wang, D. Wang, M. Tilley, **G. Zhang**, Z. He, Y. Li. 2022. A comprehensive review of wheat phytochemicals: From farm to fork and beyond. *Comprehensive Review in Food Science and Food Safety*. 21:2274-2308.
- 5 Du Z., W. Tian, M. Tilley, D. Wang, **G. Zhang**, and Y. Li. 2022. Quantitative assessment of wheat quality using near-infrared spectroscopy: A comprehensive review. *Comprehensive Review in Food Science and Food Safety*. 21:2956-3009.
- 6 **Zhang G.**, R.Y. Chen, M. Shao, G. Bai, and B.W. Seabourn. 2021. Genetic analysis of end-use quality traits in wheat. *Crop Science*. 61:1709-1723. <https://doi.org/10.1002/csc2.20411>.

- 7 Zhang-Biehn S., A.K. Fritz, **G. Zhang**, R.A. Miller, and J. Poland. 2021. Accelerating wheat breeding for end-use quality through association mapping and multivariate genomic prediction. The Plant Genome. Accepted on Aug. 23, 2021.
- 8 Tian W., G. Chen, **G. Zhang**, D. Wang, M. Tilley, and Y. Li. 2021. Rapid determination of total phenolic content of whole wheat flour using near-infrared spectroscopy and chemometrics. Food Chemistry. 344. <https://doi.org/10.1016/j.foodchem.2020.128633>.
- 9 Tian W., G. Chen, Y. Gui, **G. Zhang**, and Y. Li. 2021. Rapid quantification of total phenolics and ferulic acid in whole wheat using UV–Vis spectrophotometry. Food Control. 123. <https://doi.org/10.1016/j.foodcont.2020.107691>.
- 10 Zhang P., M Tilley, G. Bai, S. Harmer, S. Duke, B.W. Seabourn, and **G. Zhang**. 2021. Effect of wheat quality traits and glutenin composition on tortilla quality from the USDA Southern Regional Performance Nursery. Cereal Chemistry. 00:1-11. DOI: 10.1002/cche.10475.
- 11 **Zhang G.**, T.J. Martin, A.K. Fritz, R.L. Bowden, Y. Li, G. Bai, M.S. Chen, Y. Jin, X. Chen, J.A. Kolmer, B.W. Seabourn, R.Y. Chen, and D. Marshall. 2021. Registration of ‘KS Silverado’ hard white winter wheat. Journal of Plant Registrations. 15:147-153. DOI: 10.1002/plr2.20106.
- 12 **Zhang G.**, A.K. Fritz, S.D. Haley, Y. Li, G. Bai, R.L. Bowden, M.S. Chen, Y. Jin, X. Chen, J.A. Kolmer, B.W. Seabourn, R.Y. Chen, and D. Marshall. 2021. Registration of ‘KS Western Star’ hard red winter wheat. Journal of Plant Registrations. 15:140-146. DOI: 10.1002/plr2.20104.
- 13 **Zhang G.**, T.J. Martin, A.K. Fritz, Y. Li, G. Bai, R.L. Bowden, M.S. Chen, Y. Jin, X. Chen, J.A. Kolmer, B.W. Seabourn, R.Y. Chen, and D. Marshall. 2021. Registration of ‘KS Dallas’ hard red winter wheat. Journal of Plant Registrations. 15:154-160. DOI: 10.1002/plr2.20108.
- 14 **Zhang G.**, T.J. Martin, A.K. Fritz, R. Miller, G. Bai, M.S. Chen, R.L. Bowden, Y. Jin, X. Chen, J.A. Kolmer, and B.W. Seabourn. 2020. Registration of ‘KS Venada’ hard white winter wheat. Journal of Plant Registrations. 14:153-158. DOI:10.1002/plr2.20026.
- 15 Munaro, L., T. Hefley, E. DeWolf, S.D. Haley, A.K. Fritz, **G. Zhang**, L. Haag, A. Schlegel, J. Edwards, D. Marburger, P. Alderman, S. Jones-Diamond, J. Johnson, J. Lingenfelter, S. Unêda-Trevisoli, and R. Lollato. 2020. Exploring long-term variety performance trials to improve environment-specific genotype × management recommendations: A case-study for winter wheat. Field Crops Research. 255. 107848. [10.1016/j.fcr.2020.107848](https://doi.org/10.1016/j.fcr.2020.107848).
- 16 Bastos, L.M., W. Carciochi, R.P. Lollato, B.R. Jaenisch, C.R. Rezende, R. Schwalbert, P.V. Vara Prasad, **G. Zhang**, A.K. Fritz, C. Foster, Y. Wright, S. Young, P. Bradley, and I.A. Ciampitti. 2020. Winter wheat yield response to plant density as a function of yield environment and tillering potential: A review and field studies. Frontiers in Plant Science, 11, 54. <https://doi.org/10.3389/fpls.2020.00054>
- 17 Kumssa T.T., J.S. Rupp, M.C. Fellers, J.P. Fellers, and **G. Zhang***. 2019. An isolate of Wheat streak mosaic virus from foxtail overcomes Wsm2 resistance in wheat. Plant Pathology. Doi: 10.1111/ppa.12989. (*: Corresponding author).
- 18 Alipour H., G. Bai, **G. Zhang**, M.R. Bihamta, V. Mohammadi, and S.A. Peyghambari. 2019. Imputation accuracy of wheat genotyping-by- sequencing (GBS) data using barley and wheat genome references. PLoS One. 14(1): e0208614. <https://doi.org/10.1371/journal.pone.0208614>

- 19 Peng B., X. Liu, X. Dong, Q. Xue, C.B. Neely, T. Marek, A.M. Ibrahim, **G. Zhang**, D.I. Leskovar, and J.C. Rudd. 2019. Root morphological traits of winter wheat under contrasting environments. Journal of Agronomy and Crop Science.
<https://doi.org/10.1111/jac.12360>
- 20 Lin M., S. Liu, G. Zhang, and G. Bai. 2018. Effects of TaPHS1 and TaMKK3-A genes on wheat pre-harvest sprouting resistance. Agronomy. 8: article # 210.
<https://doi.org/10.3390/agronomy8100210>.
- 21 **Zhang G.** and Z. Hua. 2018. Genome comparison implies the role of *Wsm2* in membrane trafficking and protein degradation. PeerJ. DOI 10.7717/peerj.4678.
- 22 Shao M., G. Bai, T.W. Rife, J. Poland, M. Lin, S. Liu, H. Chen, T. Kumssa, A. Fritz, H. Trick, Y. Li, and **G. Zhang***. 2018. QTL mapping of pre-harvest sprouting resistance in a white wheat cultivar Danby. Theoretical and Applied Genetics.
<https://doi.org/10.1007/s00122-018-3107-5> (*: Corresponding author).
- 23 Wiersmaa A.T., R.B. Whettenb, **G. Zhang**, S.K. Sehgal, F.L. Kolbe, J.A. Polandf, R.E. Masong, A.H. Carterh, C. Cowgerbi, and E.L. Olson. 2018. Registration two wheat germplasm lines fixed for Pm58. Journal of Plant Registrations.
doi:10.3198/jpr2017.06.0036crg.
- 24 Assanga S.O., M. Fuentealba, **G. Zhang**, C. Tan, S. Dhakal, J.C. Rudd, A.M.H. Ibrahim, Q. Xue, S. Haley, J. Chen, S. Chao, J. Baker, K. Jessup, and S. 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. 21 pages.
<https://doi.org/10.1371/journal.pone.0189669>.
- 25 **Zhang G.**, T.J. Martin, A.K. Fritz, R. Miller, G. Bai, M.S. Chen, and R.L. Bowden. 2017. Registration of 'Tatanka' hard red winter wheat. Journal of Plant Registrations.
doi:10.3198/jpr2017.04.0019crc.
- 26 Alipour H., M.R. Bihanta, V. Mohammadi, S.A. Peyghambari, G. Bai, and **G. Zhang***. 2017. Genotyping-by-Sequencing (GBS) revealed molecular genetic diversity of Iranian wheat landraces and cultivars. Frontiers in Plant Science. 8: 1293. doi: 10.3389/fpls.2017.01293. (*Corresponding author)
- 27 Lu Y., R.L. Bowden, **G. Zhang**, X. Xu, A.K. Fritz, and G. Bai. 2017. Quantitative trait loci for slow-rusting resistance to leaf rust in doubled haploid wheat population CI13227 x Lakin. Phytopathology. 107: 1372-1380.
- 28 Danilova T.V., **G Zhang**, W. Liu, B. Friebe, and B.S. Gill. 2017. Homoeologous recombination-based transfer and molecular cytogenetic mapping of a wheat streak mosaic virus and Triticum mosaic virus resistance gene *Wsm3* from *Thinopyrum* intermedium to wheat. Theoretical and Applied Genetics. 130:549-556.
- 29 Chuang W., L.M.A. Rojas, L.K. Khalaf, **G. Zhang**, A.K. Fritz, A.E. Whitefield, and C.M. Smith. 2016. Wheat genotypes with combined resistance to wheat curl mite, wheat streak mosaic virus, wheat mosaic virus and *Triticum* mosaic virus. Journal of Economic Entomology. DOI:10.1093/jee/tow255.
- 30 Lin M., D. Zhang, S. Liu, **G. Zhang**, J. Yu, A.K. Fritz, and G. Bai. 2016. Genome-wide association analysis on pre-harvest sprouting resistance and grain color in U.S. winter wheat. BMC Genomics. DOI:10.1186/s12864-016-3148-6.
- 31 Assanga S., **G. Zhang**, C.T. Tan, J. Rudd, A. Ibrahim, Q. Xue, D. Hays, S. Chao, M. Fuentealba, and S. Liu. 2016. Saturated genetic mapping of wheat streak mosaic virus resistance gene *Wsm2* in wheat. Crop Science. DOI:10.2135/cropsci2016.04.0233.

- 32 Tan C., S. Assanga, **G. Zhang**, S.D. Haley, J. Rudd, Q. Xue, G. Bai, X. Zhang, P. Byrne, M. Fuentelba, and S. Liu. 2016. Development and validation of single nucleotide polymorphism markers for wheat streak mosaic virus resistance gene *Wsm2*. Crop Science. DOI:10.2135/cropsci2016.04.0234.
- 33 Cai J., S. Wang, T. Li, **G. Zhang**, and G. Bai. 2016. Multiple minor QTLs responsible for *Fusarium* head blight resistance in a Chinese wheat landrace Haiyanzhong. PLOS ONE. DOI: 10.1371/journal.pone.0163292.
- 34 Kumssa T.T., D. Zhao, G. Bai, and **G. Zhang***. 2016. Resistance to Wheat streak mosaic virus and *Triticum* mosaic virus in wheat lines carrying *Wsm1* and *Wsm3*. European Journal of Plant Pathology. DOI:10.1007/s10658-016-1021-8. (*Corresponding author).
- 35 **Zhang G.***, T.J. Martin, A.K. Fritz, R. Miller, M.S. Chen, R.L. Bowden, and G. Bai. 2016. Registration of ‘Joe’ hard white winter wheat. Journal of Plant Registrations. 10. DOI:10.3198/jpr2016.03.0017crc. (*Corresponding author).
- 36 Grogan S.M., J. Anderson, P.S. Baenziger, K. Frels, M.J. Guttieri, S.D. Haley, K. Kim, S. Liu, G.S. McMaster, M. Newell, P.V.V. 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 Science. 56:2223-2236.
- 37 Su Z., S. Jin, Y. Lu, **G. Zhang**, S. Chao, and G. Bai. 2016. Single nucleotide polymorphism tightly linked to a major QTL on chromosome 7A for both kernel length and kernel weight in wheat. Molecular Breeding. 36(15). DOI:10.1007/s11032-016-0436-4.
- 38 Parikh L., M.T. Mmbaga, S. Kodati, and **G. Zhang**. 2016. Estimation of narrow sense heritability of powdery mildew resistance in pseudo F2 (F1) population of flowering dogwoods (*cornus Florida* L). European Journal of Plant Pathology. 145:17-25. DOI:10.1007/s10658-015-0806-5.
- 39 Zhang X., G. Bai, R. Xu, and **G. Zhang***. 2016. Wheat Streak Mosaic Virus Resistance in Eight Wheat Germplasm Lines. Plant Breeding. 135:26-30. (*Corresponding author).
- 40 **Zhang G.***, R. Aiken, and T.J. Martin. 2015. Relationship between carbon isotope discrimination and grain yield of rainfed winter wheat in a semi-arid region. Euphytica. 204:39-48. (*Corresponding author).
- 41 Liu Z., I. El-Basyoni, G. Kariyawasm, **G. Zhang**, A. Fritz, J. Hansen, F. Marais, A. Friskop, S. Chao, E. Akhunov, and P.S. Baenziger. 2015. Evaluation and association mapping of resistance to tan spot and *Stagonospora nodorum* blotch in adapted winter wheat germplasm. Plant Disease. 99:1331-1341. DOI:10.1094/PDIS-11-14-1131-RE.
- 42 Lin M., S. Cai, S. Wang, S. Liu, **G. Zhang**, and G. Bai. 2015. Genotyping-by-sequencing (GBS) identified SNP tightly linked to QTL for pre-harvest sprouting resistance. Theoretical and Applied Genetics. 128:1385-1395.
- 43 **Zhang G.***, T.J. Martin, A.K. Fritz, R. Miller, and M.S. Chen, R.L. Bowden, and J.J. Johnson. 2015. Registration of ‘Oakley CL’ wheat. Journal of Plant Registrations. 9:190-195. (*Corresponding author).
- 44 **Zhang G.***, D.L. Seifers, and T.J. Martin. 2014. Inheritance of Wheat Streak Mosaic Virus Resistance in KS03HW12. Austin Journal of Plant Biology. 1:1-4. (*Corresponding author).
- 45 Martin T.J., **G. Zhang***, A.K. Fritz, R. Miller, and M.S. Chen. 2014. Registration of ‘Clara CL’ wheat. Journal of Plant Registrations. 8:38-42. (*Corresponding author)

- 46 Martin T.J., **G. Zhang***, A.K. Fritz, R. Miller, and M.S. Chen. 2013. Registration of 'Tiger' wheat. Journal of Plant Registrations. 7:201-204. (*Corresponding author)
- 47 Seifers D., S. Haber, T.J. Martin, and **G. Zhang**. 2013. New sources of Temperature-sensitive resistance in wheat to wheat streak mosaic virus. Plant Disease. 97:1051-1056.
- 48 **Zhang G.**, C. Gu, and D. Wang. 2013. Mapping and validation of a gene for soybean aphid resistance in PI 567537. Molecular Breeding. 32:131-138.
- 49 Bales C., **G. Zhang**, M. Liu, C. Mensah, C. Gu, Q. Song, D. Hyten, P. Cregan, and D. Wang. 2013. Mapping soybean aphid resistance genes in PI 567598B. Theoretical and Applied Genetics. 126:2081-2091.
- 50 Umesh R.R., C.A.M.B. Marco, E. van de Weg, **G. Zhang**, D. Wang, A. Sebolt, E. Dirlewanger, J. Quero-Garcia, M. Schuster, and A.F. Iezzoni. 2013. Fruit size QTL identification and the prediction of parental QTL genotypes and breeding values in multiple pedigreed populations of sweet cherry. Molecular Breeding. 32:875-887.
- 51 Zhang Z., J. Hao, J. Yuan, Q. Song, D.L. Hyten, P.B. Cregan, **G. Zhang**, C. Gu, M. Ling, and D. Wang. 2014. Phytophthora root rot resistance in Soybean E00003. Crop Science. 54:492-499.
- 52 **Zhang G.**, C. Gu, and D. Wang. 2010. A novel gene for soybean aphid resistance in PI 567543C. Theoretical and Applied Genetics. 120:1183-1191.
- 53 **Zhang G.**, A.M. Sebolt, S.S. Sooriyapathirana, D. Wang, M.C.A.M. Bink, J.W. Olmstead, and A. Iezzoni. 2010. Fruit size QTL analysis of an F1 population derived from a cross between a domesticated sweet cherry cultivar and a wild forest sweet cherry. Tree Genetics & Genomes. 6:25-36.
- 54 **Zhang G.**, M. Mergoum, S. Kianian, D.W. Meyer, S. Simsek, and P.K. Singh. 2009. Genetic relationship and QTL association between kernel shattering and agronomic traits in wheat. Crop Science. 49:451-458.
- 55 **Zhang G.**, C. Gu, and D. Wang. 2009. Molecular mapping of soybean aphid resistance genes in PI 567541B. Theoretical and Applied Genetics. 118:473-481.
- 56 **Zhang G.** and M. Mergoum. 2007. Molecular mapping of kernel shattering and its association with Fusarium head blight resistance in a Sumai3 derived population. Theoretical and Applied Genetics. 115:757-766.
- 57 **Zhang G.** and M. Mergoum. 2007. Developing evaluation methods for kernel shattering in spring wheat. Crop Science 47:1841-1850.
- 58 **Zhang G.** and P. Huang. 2002. Study on the microstructure of albino-lemma barley with electronic microscope. Acta Agriculture Shanghai. 18(3):39-42. (in Chinese)
- 59 **Zhang G.**, X. Lu, Y. Du, L. Yu, and P. Huang. 2001. The characteristics of new feed barley line 97-117 and its key cultivation techniques. Barley Science. 3:38-39. (in Chinese)
- 60 **Zhang G.** and M. Mao. 2000. Progress on waterlogging research in barley. Barley Science. 4:7-9. (in Chinese)
- 61 **Zhang G.**, H. Lin, L. Yu, and Y. Du. 2000. Genetic analysis of albino-lemma barley. Acta Agriculture Shanghai. 16(1): 20-22. (in Chinese)
- 62 **Zhang G.**, J. Ma, Y. Du, L. Yu, and P. Huang. 1996. Preliminary studies on heterosis of barley hybrids of karyocyttoplasmic interaction type. Acta Agriculture Shanghai. 12(4): 5-8. (in Chinese)

- 63 Yu L., **G. Zhang**, Y. Du, and P. Huang. 2000. Characteristics of new malting barley variety Humai 16 and its key cultivation techniques. Barley Science. 2:13-15. (in Chinese)
- 64 Fan S., J. Li, **G. Zhang**, X. Zhu, and F. Cao. 2002. Sifting of protein-rich, lysine-rich barley and analyses of genetic distance. Acta Agriculture Shanghai. 18(1):29-34. (in Chinese)
- 65 Du Y., R. Chen, **G. Zhang**, L. Yu, P. Huang, and X. Lu. 2001. Effects of malt extract on barley anther culture. Acta Agriculture Shanghai. 17(1):27-30. (in Chinese)
- 66 Du Y., R. Chen, **G. Zhang**, G. Qin, L. Yu, P. Huang, and J. Ma. 1998. A study on effects of malt extract, met and other factors on anther culture of barley. Acta Agriculture Shanghai. 14(2):85-88. (in Chinese)
- 67 Du Y., R. Chen, **G. Zhang**, P. Huang, J. Ma, and C. Li. 1996. Selection and breeding of “three lines” in hybrid barley by anther culture. Acta Agriculture Shanghai. 12(2):10-12. (in Chinese)
- 68 Mao W., Y. Xu, **G. Zhang**, J. Li, Y. Liu, and X. Lu. 2003. Analyses on the hereditary stability of protein content and quality variation in barley seeds by introducing exogenous soybean DNA. Seed. 6:6-9. (in Chinese)
- 69 Du Y., R. Chen, G. Qi, **G. Zhang**, L. Yu, J. Ma, and P. Huang. 1997. Effects of air temperature, ABT, and other factors on anther culture of barley. Acta Agriculture Shanghai. 13(2):19-22. (in Chinese)
- 70 Liu Y., J. Li, Y. Xu, **G. Zhang**, W. Mao, and X. Lu. 2003. Improving the Protein Contents and Quality in Barley Seeds by Introducing Exogenous DNA from Soybean. Journal of Shanghai Normal University. 3:62-67. (in Chinese)
- 71 Gu W., H. Zheng, Y. Zhang, and **G. Zhang**. 2002. Trends in production, demand and scientific researches on vegetable soybean [*Glycine max* (L.) Merr.] at home and abroad. Acta Agriculture Shanghai. 18(2): 45-48. (in Chinese)
- 72 Ma J., P. Huang, C. Li, Y. Du, R. Chen, and **G. Zhang**. 1995. Selection and breeding for three lines of karyocyttoplasmic interaction type male sterility in barley. Acta Agriculture Shanghai. 11(3): 75-78. (in Chinese)

Non-refereed Journal Articles (11)

- 1 Davis M.A., M.A. Bruce, J.L. Rupp, A.K. Fritz, and **G. Zhang**. 2022. Reaction of Kansas Intrastate Nursery winter wheat accessions to Fusarium head blight, 2020. Plant Disease Management Reports. 16:CF076.
- 2 Ranabhat N.B., M. Bruce, M.A. Davis, A.K. Fritz, and **G. Zhang**, and J.L. Rupp. 2021. Reaction of selected Kansas winter wheat cultivars to Barley yellow dwarf, 2020. Plant Disease Management Report. 15: CF094.
- 3 Mangel D.J.L., M.A. Davis, M. Bruce, A.K. Fritz, **G. Zhang**, and J. Rupp. 2020. Reaction of Kansas Interstate Nursery winter wheat accessions to Fusarium head blight, 2019. Plant Disease Management Report. 14: CF090.
- 4 Ranabhat N.B., M. Bruce, M.A. Davis, A.K. Fritz, and **G. Zhang**, and J. Rupp. 2020. Reaction of selected Kansas winter wheat cultivars to Barley yellow dwarf, 2019. Plant Disease Management Report. 14: CF088.
- 5 Lollato R., **G. Zhang**, B.R. Jaenisch, R. Maeoka, L. Bonassi, and A.K. Fritz. 2018. Wheat variety response to seeding rate in Kansas during the 2015-16 and 2017-16 growing seasons. Kansas Field Research. 4: article 13.

- 6 Lollato R., G. Gramer, A.K. Fritz, **G. Zhang**. 2017. Optimum seeding rate for different wheat varieties in Kansas. *Kansas Field Research*. 3: article 34.
- 7 Bockus, W.W., **G. Zhang**, A. Fritz, M. Davis, P. Baenziger, and M. Caffé-Treml. 2016. Reaction of Kansas, Nebraska, and South Dakota winter wheat accessions to *Fusarium* head blight (FHB), 2015. *Plant Disease Management Reports*. 10: CF043
- 8 Bockus W.W., **G. Zhang**, A. Fritz, M. Davis, P. Baenziger, and M. Caffé-Treml. 2015. Reaction of Kansas, Nebraska, and South Dakota winter wheat accessions to *Fusarium* head blight (FHB), 2014. *Plant Disease Management Reports*. 9:CF004.
- 9 Bockus, W.W., P. S. Baenziger, W. Berzonsky, M. Caffé, M.A. Davis, A.K. Fritz, G. Marais, J. Ransom, S.N. Wegulo, and **G. Zhang**. 2014. Hard winter wheat scab nurseries: 2006 to the present. *Fusarium Focus 2014. US Wheat & Scab Initiative*. 14: 7.
- 10 Bockus W.W., **G. Zhang**, A.K. Fritz, M.A. Davis, P.S. Baenziger, and W. Berzonsky. 2014. Reaction of Kansas, Nebraska, and South Dakota winter wheat accessions to *Fusarium* head blight (FHB), 2013. *Plant Disease Management Reports*. 8: CF025.
- 11 Bockus W.W., P.S. Baenziger, W. Berzonsky, **G. Zhang**, A.K. Fritz, and M.A. Davis. 2013. Reaction of Kansas, Nebraska, and South Dakota winter wheat accessions to *Fusarium* head blight (FHB), 2012. *Plant Disease Management Reports*. 7: CF019.

Book Chapters (2)

- 1 Ma J., and **G. Zhang**. 2001. The resistant resource to barley yellow mosaic virus and its utilization. *In: Sun L. (ed.). Genetic resource and excellent germplasm of barley in China*. China Agricultural Science & Technology Press, Beijing, China. (in Chinese)
- 2 Huang P., and **G. Zhang**. 1999. Conventional breeding in barley. *In: Zhu M., and P. Huang (eds.). Breeding and bioengineering of barley*. Shanghai Scientific & Technical Publisher, Shanghai, China. (in Chinese)

Refereed Conference Proceeding Papers (2)

- Parikh L., S. Kotdati, M.T. Mmbaga, **G. Zhang**. 2014. Inheritance of powdery mildew resistance in flowering dogwoods (*Cornus florida* L.). 2014 SNA Research Conference Proceedings. 59: 188-196.
- **Zhang G.**, M. Mergoum, and R.W. Stack. 2004. Kernel shattering and its relationship with *Fusarium* head blight in spring wheat. *In Canty S.M., T. Boring, K. Versdahl, J. Wardwell, and R.W. Ward (eds.) Proceedings of the 2nd International Symposium on Fusarium head blight*. Vol.1:224-226.

Conference Presentations (39)

- 1 Giordano N., L. Munaro, S. Haley, S. Jones-Diamond, G. Zhang, J.E. Lingensfelder, J.J. Johnson, A. Fritz, and R.P. Lollato. Phenotypic Plasticity of Yield Is a Positive Trait for Winter Wheat in Drought-Prone Environments. Poster abstract. Nov. 6-9, 2022, ASA, CSSA, SSSA International Annual Meeting, Baltimore, MD.
- 2 Guttieri M.J., R.L. Bowden, **G. Zhang**, S. Haley, K. Frels, G.L. Hein, and K. Jordan. A Shortened Translocation for Wheat Streak Mosaic Virus Resistance: Agronomic and Quality Impact. Poster abstract. Nov. 6-9, 2022, ASA, CSSA, SSSA International Annual Meeting, Baltimore, MD.

- 3 Yu, S., S. Ocheya, M.P. Fuentealba, J. Awika, A. Ibrahim, J.C. Rudd, Q. Xue, **G. Zhang**, C.T. Tan, J.A. Baker, K. Jessup, H. Yu, L. Garza, and S. Liu. Genetic mapping of end-use quality quantitative trait loci in hard red winter wheat. Poster presentation. Nov. 7-10, 2021, ASA, CSSA, SSSA International Annual Meeting, Salt Lake City, UT.
- 4 Yu S., M. Dogan, S. Dhakal, Z. Wang, M. Cerit, J. Valenzuela-Antelo, A. Ibrahim, J. Awika, J. Rudd, Q. Xue, **G. Zhang**, H. Zhang, D. Hays, and S. Liu. Genetic mapping of end-use quality quantitative trait loci in hard red winter wheat. Oral presentation. 1st Virtual Wheat Quality Meeting. Nov. 24-25, 2021.
- 5 Mustahsan W., M.J. Guttieri, R.L. Bowden, and **G. Zhang**. Mapping stripe rust resistance in Overley x Overland population. 2020 National Association of Plant Breeders Annual Meeting. Aug. 17-20, 2020.
- 6 Zhang S., A.K. Fritz, **G. Zhang**, R.A. Miller, J. Poland. Accelerating Improvement in Wheat End-Use Quality through Genome-Wide Association Mapping and Genomic Selection. Plant & Animal Genome XXVII. Jan. 12-16, 2019. San Diego, CA, USA.
- 7 Mustahsan W., M.J. Guttieri, and **G. Zhang**. Updates on 2DL Yield Components. Plant & Animal Genome XXVI. Jan. 13-17, 2018. San Diego, CA, USA.
- 8 Tatiana V.D., **G. Zhang**, B. Friebe, and B.S. Gill. Homoeologous recombination based transfer and cytogenetic mapping of a wheat streak mosaic virus and Triticum mosaic virus resistance gene Wsm3 from *Thinopyrum intermedium* to wheat. Plant & Animal Genome XXIV. Jan. 8-13, 2016. San Diego, CA, USA.
- 9 Tan C., S. Assanga, S. Dhakal, J. Rudd, Q. Xue, A. Ibrahim, **G. Zhang**, G. Bai, S. Haley, L. Garza, H. Yu, and S. Liu. Development of high throughput SNPs for host plant resistance in wheat. Plant & Animal Genome XXIV. Jan. 8-13, 2016. San Diego, CA, USA.
- 10 Liu S., Tan C., S. Assanga, S. Dhakal, Y. Yang, J. Rudd, Q. Xue, A. Ibrahim, **G. Zhang**, X. Xu, G. Bai, M. Chen, R. Devkota, M. Fuentealba, H. Yu, and L. Garza. Development and Validation of KASP Assays for Pest Resistant Traits in Wheat. 7th International Crop Science Congress. Aug. 14-19, 2016. Beijing, China.
- 11 Tan C., S. Assanga, S. Dhakal, Y. Yang, J. Rudd, Q. Xue, A. Ibrahim, **G. Zhang**, X. Xu, G. Bai, M. Chen, R. Devkota, M. Fuentealba, H. Yu, L. Garza, and S. Liu. Developing KASP markers for biotic stress tolerances in wheat. 2016 ASA-CSSA-SSSA International Annual Meetings. Nov. 6-9. Phoenix, AZ, USA.
- 12 Tan C., S. Assanga, S. Dhakal, J. Rudd, Q. Xue, A. Ibrahim, **G. Zhang**, G. Bai, S. Haley, L. Garza, H. Yu, and S. Liu. Development of High Throughput SNPs for Host Plant Resistance in Wheat. Plant & Animal Genome XXIV. Jan. 8-13, 2016. San Diego, CA, USA.
- 13 Shao M., R. Rife, G. Bai, J. Poland, M.S. Chen, and **G. Zhang***. Molecular mapping of Hessian fly resistance QTL using a wheat doubled haploid population. 2016 National Association of Plant Breeders Annual Meeting. Aug. 15-18. Raleigh, NC, USA.
(*Corresponding author)
- 14 Lin M, Liu S, Zhang G, Yu J, and Bai G. SNP markers linked to wheat pre-harvest sprouting resistance identified in an association study can significantly improve selection efficiency. Plant & Animal Genome XXIV. Jan. 8-13, 2016. San Diego, CA, USA.
- 15 Shao M., T. Rife, J. Poland, G. Bai, M. Lin, S. Liu, and **G. Zhang***. Characterization of pre-harvest sprouting resistance in a white wheat cultivar Danby. 2015 ASA-CSSA-

SSSA International Annual Meetings. Nov. 15-18. Minneapolis, MN, USA.

(*Corresponding author)

- 16 Lin M., **G. Zhang**, S. Liu, S. Chao, and G. Bai. Genomic prediction and marker-assisted selection for wheat resistance to pre-harvest sprouting. 2015 ASACSSA-SSSA International Annual Meetings. Nov. 15-18. Minneapolis, MN, USA.
- 17 Assanga S., C. Tan, S. Dhakal, J. Rudd, **G. Zhang**, Q. Xue, A. Ibrahim, R. Devkota, S.D. Haley, J. Chen, M. Fuentealba, S. Baker, J. Baker, and S. Liu. Identification of high throughput SNP markers for grain yield, yield components and WSMV resistance in wheat. 2015 ASA-CSSA-SSSA International Annual Meetings. Nov. 15-18. Minneapolis, MN, USA.
- 18 Tan C., S. Assanga, **G. Zhang**, S. D. Haley, J. Rudd, Q. Xue, G. Bai, X. Zhang, P. Byrne, M. Fuentealba, and S. Liu. Development and validation of KASP Markers for marker-assisted selection of *Wsm2* in wheat. 2015 ASA-CSSA-SSSA International Annual Meetings. Nov. 15-18. Minneapolis, MN, USA.
- 19 Tan, C., S. Assanga, S. Dhakal, S. Liu, J. Rudd, Q. Xue, **G. Zhang**, G. Bai, X. Zhang, and M.P. Fuentealba. Validation and application of diagnostic KASPAR SNP markers for host plant resistance in wheat. 9th International Wheat Conference. Sept. 20-25, 2015. Sydney, Australia.
- 20 Assanga S., S. Liu, J. Rudd, A. Ibrahim, **G. Zhang**, Q. Xue, D. Hays, R. Devkota, S. Chao, G. Bai, S. Haley, J. Chen, C. Tan, M. Fuentealba, S. Baker, and J. Baker. Identification of high throughput SNP markers linked to QTL for drought tolerance and *Wsm2* gene in US hard red winter wheat and applications in breeding. Plant & Animal Genome XXIII. Jan. 10-14, 2015. San Diego, CA, USA.
- 21 Tan C., S. Liu, S. Assanga, S. Dhakal, J. Rudd, Q. Xue, **G. Zhang**, G. Bai, X. Zhang, R. Devkota, and M.P. Fuentealba. Development of KASPAR SNP markers for host plant resistance to biotic stress in wheat. Plant & Animal Genome XXIII. Jan. 10-14, 2015. San Diego, CA, USA.
- 22 Aiken R.M., **G. Zhang**, and T.J. Martin. Carbon isotope discrimination, selecting for productivity and water use efficiency in wheat. 2014 ASA-CSSA-SSSA International Annual Meetings. Nov. 2-5. Long Beach, CA, USA.
- 23 Zhang X., **G. Zhang***, G. Bai, and R. Miller. Effects of high molecular weight glutenin on wheat quality. 2014 ASA-CSSA-SSSA International Annual Meetings. Nov. 2-5. Long Beach, CA, USA. (*Corresponding author)
- 24 **Zhang G.**, and D. Seifers. Inheritance of wheat streak mosaic virus resistance in KS03HW12. 2013 ASA-CSSA-SSSA International Annual Meetings. Nov. 3-6. Tampa, FL, USA.
- 25 Assanga S., S. Liu, A.M.H. Ibrahim, J.C. Rudd, Q. Xue, D.B. Hays, R.N. Devkota, **G. Zhang**, and J. Chen. 2013. Identification of SNP markers for drought tolerance in wheat. 2013 ASA-CSSA-SSSA International Annual Meetings. Nov. 3-6. Tampa, FL, USA.
- 26 Rife T., C. Seaman, **G. Zhang**, T.J. Martin, and J. Poland. Utilization of genotyping-by-sequencing for genomic selection in the Kansas State University wheat (*Triticum aestivum*) breeding program. Plant & Animal Genome XXI. Jan. 12-16, 2013. San Diego, CA, USA.
- 27 **Zhang, G.**, and T.J. Martin. Temperature effect on coleoptile length in tall and semidwarf wheat. 2012 ASA-CSSA-SSSA International Annual Meetings. Oct. 21-24. Cincinnati, OH, USA.

- 28 **Zhang G.**, and D. Kiser. 2011. Grow camelina as a winter crop in TN. Poster presentation. ASA-CSSA-SSSA International Annual Meetings. Oct. 16-19. San Antonio, TX.
- 29 de Koff P.J., S. Haile, **G. Zhang**, S. Zhou, and R. Sauve. 2010. Biofuels research program at Tennessee State University. Poster presentation. Sustainable Feedstocks for Advanced Biofuels. Sept. 28-30. Atlanta, GA.
- 30 **Zhang G.**, and D. Wang. 2009. Detection and verification of an aphid resistance locus in soybean PI 567543C. Poster presentation. ASA-CSSA-SSSA International Annual Meetings. Nov. 1-5. Pittsburgh, PA.
- 31 Liu M., **G. Zhang**, and D. Wang. 2009. Identification of aphid resistance genes by modified nested association mapping in soybean PI 567598B. Poster presentation. ASA-CSSA-SSSA International Annual Meetings. Nov. 1-5. Pittsburgh, PA.
- 32 Wang D., **G. Zhang**, M. Liu, Z. Yang. 2009. Advances in the genetic study of soybean aphid resistance in the USA. Oral presentation. World Soybean Research Conference VIII, Aug. 10-15, Beijing, China.
- 33 **Zhang G.**, and D. Wang. 2008. Molecular mapping of soybean aphid resistance genes in PI 567541B. Poster presentation. Soy 2008 Conference. July 20-23. Indianapolis, IN.
- 34 Iezzoni A.F., **G. Zhang**, D. Wang, S.S. Sooriyapathirana, A.M. Sebolt, W.E. van de Weg, and M.C.A.M. Bink. 2008. Pedigree based analysis: our experiences using multiple pedigreed populations in sweet cherry. Poster presentation. 4th Rosaceae Genomics Conference. March 16-19. Pucon, Chile.
- 35 Cabrera1 A., A. Kozik, S.S. Sooriyapathirana, A. Sebolt, S. Hammar, J.W. Olmstead, G. Iriarte, D. Wang, **G. Zhang**, A.F. Iezzoni, and E. van der Knaap. 2008. Development of gene-based markers for linkage map construction and QTL analysis in sweet cherry (*Prunus avium* L.). Poster presentation. Plant & Animal Genomes XVI Conference. Jan. 12-16. San Diego, CA.
- 36 **Zhang G.**, and M. Mergoum. 2006. "Tuning up" grain shattering evaluation methods in spring wheat. Poster presentation. ASA-CSSA-SSSA International Annual Meetings. Nov. 12-16. Indianapolis, IN.
- 37 **Zhang G.**, M. Mergoum, R.W. Stack, B.G. Schatz, and J. Anderson. 2005. Kernel shattering in wheat: evaluation methods, association with agronomic traits, and QTL's identification. Oral presentation. ASA-CSSA-SSSA International Annual Meetings. Nov. 6-10. Salt Lake City, UT.
- 38 **Zhang G.**, M. Mergoum, and B. Schatz. 2005. Genetics and screening methods for kernel shattering, and its association with other traits in spring wheat. Poster presentation. 7th International Wheat Conference. Nov. 27-Dec 2. Mar del Plata, Argentina.
- 39 **Zhang G.**, M. Mergoum, and R.W. Stack. 2004. Kernel shattering and its relationship with Fusarium head blight in spring wheat. Poster presentation. The 2nd International Symposium on Fusarium Head Blight. Dec. 11-15. Orlando, FL.

Extension Publications (68)

- Holman J., A. Fritz, **G. Zhang**, E. Fabrizius, L. Haag, and J. Falk Jones. 2022. Effect of heat and drought during grain fill on wheat seed quality. eUpdate Issue 910.
- **Zhang G.**, A.K. Fritz, R.P. Lollato, E. De Wolf, and J. Rupp. 2021. KS Dallas hard red winter wheat. Kansas State University Agricultural Experiment Station and Cooperative Extension Service. L941.

- **Zhang G.**, A.K. Fritz, R.P. Lollato, E. De Wolf, and J. Rupp. 2021. KS Silverado hard white winter wheat. Kansas State University Agricultural Experiment Station and Cooperative Extension Service. L942.
- **Zhang G.**, A.K. Fritz, R.P. Lollato, E. De Wolf, and J. Rupp. 2021. KS Western Star hard red winter wheat. Kansas State University Agricultural Experiment Station and Cooperative Extension Service. L943.
- Ag-Climate Update. (co-author for this monthly eUpdate from Jan. 2019 to Dec. 2022, a total of **48** eUpdates)
- **Zhang G.** 2019. KS Dallas: new hard red wheat variety from K-State. eUpdate.
- **Zhang G.**, A.K. Fritz, R.P. Lollato, and Erick DeWolf. 2017. Tatanka hard red winter wheat. Kansas State University Cooperative Extension Service Bulletin. L939.
- **Zhang G.**, T.J. Martin, A.K. Fritz, and R.P. Lollato. 2016. Joe hard white winter wheat. Kansas State University Cooperative Extension Service Bulletin. L938.
- Fritz, A.K., **G. Zhang**, E. De Wolf, and J.P. Shroyer. 2015. KanMark hard red winter wheat. Kansas State University Cooperative Extension Service Bulletin. L936.
- **Zhang G.**, T.J. Martin, A.K. Fritz, and J.P. Shroyer. 2014. Oakley CL hard red winter wheat. Kansas State University Cooperative Extension Service Bulletin. L933.
- Martin T.J., **G. Zhang**, A.K. Fritz, and J.P. Shroyer. 2013. Clara CL hard white wheat. Kansas State University Cooperative Extension Service Bulletin. L931.
- Fritz A.K., T.J. Martin, **G. Zhang**, and J.P. Shroyer. 2013. 1863 hard red winter wheat. Kansas State University Cooperative Extension Service Bulletin. L932.
- Lingenfelter J. et al. 2020. 2020 Kansas performance tests with winter wheat varieties. KAES. SRP1158. (Contributor: conducted eight field trials in western Kansas)
- Lingenfelter J. et al. 2019. 2019 Kansas performance tests with winter wheat varieties. KAES. SRP1151. (Contributor: conducted eight field trials in western Kansas)
- Lingenfelter J. et al. 2018. 2018 Kansas performance tests with winter wheat varieties. KAES. SRP1143. (Contributor: conducted eight field trials in western Kansas)
- Lingenfelter J. et al. 2017. 2017 Kansas performance tests with winter wheat varieties. KAES. SRP1135. (Contributor: conducted eight field trials in western Kansas)
- Lingenfelter J. et al. 2016. 2016 Kansas performance tests with winter wheat varieties. KAES. SRP1128. (Contributor: conducted eight field trials in western Kansas)
- Lingenfelter J. et al. 2015. 2015 Kansas performance tests with winter wheat varieties. KAES. SRP1119. (Contributor: conducted eight field trials in western Kansas)
- Lingenfelter J. et al. 2014. 2014 Kansas performance tests with winter wheat varieties. KAES. SRP1108. (Contributor: conducted eight field trials in western Kansas)
- Lingenfelter, J. etc. 2013. 2013 Kansas performance tests with winter wheat varieties. Kansas State University Agricultural Experiment Station and Cooperative Extension Service. SRP1090. (Contributor: conducted eight field trials in western Kansas)
- Lingenfelter, J. etc. 2012. 2012 Kansas performance tests with winter wheat varieties. Kansas State University Agricultural Experiment Station and Cooperative Extension Service. SRP1072. (Contributor: conducted eight field trials in western Kansas)

Professional Service:

Membership in Professional Societies

- Crop Science Society of America (2006 ~ present)
- America Society of Agronomy (2012 ~ 2016)
- Crop Science Society of China (1995-2003)
- Shanghai Society of Plant Physiology (1995-2003)

Professional Committee (4)

- Hard Winter Wheat Improvement Committee
- C453 Frank N. Meyer Medal for Plant Genetic Resources in Crop Science Society of America
- AOSCA Small Grain Variety Review Board
- Coalition for Grain Fiber Plant Breeding

Invited Presentations (14)

- Invited lecture to a group of students from Fort Hays State University on Nov. 2, 2022 at Hays, KS.
- Invited lecture to a group of students from Fort Hays State University on Oct. 31, 2022 at Hays, KS.
- Invited presentation to a group of visiting college students from India on July. 1, 2022, at Hays, KS.
- Invited class lecture at Fort Hays State University, Hays, KS on Feb. 13, 2020.
- Invited presentation to a group of visiting college students from India on Aug. 8, 2019, at Hays, KS.
- Peru Miller Association, Lima, Peru on Dec. 17, 2018.
- Yangzhou University, Yangzhou, Jiangsu, China on Dec. 5, 2017.
- Sule Seed, Lianyungang, Jiangsu, China on Dec. 3, 2017.
- Lianyungang Academy of Ag. Sci., Lianyungang, Jiangsu, China on Dec. 3, 2017.
- Optimist International Club at Hays on March 24, 2016.
- Dept. of Plant Pathology, Kansas State University, Manhattan, KS, on April 12, 2015.
- Henan Agricultural University in China on March 13, 2013.
- Wheat Summit at Burlington, Colorado on Feb. 28, 2013.
- Annual meeting of Skyland Grain LLC in Johnson City, KS on May 22, 2012.

Journal Editor Service (4)

- Associate editor for Journal of Plant Registrations
- Academic Editor for PeerJ
- Review Editor for Frontiers in Plant Science-Plant Genomics
- Review Editor for Frontiers in Plant Science-Plant Abiotic Stress

Manuscript and Proposal Reviews (2008 ~present)

- Invited and reviewed manuscripts for 25 journals, including *Frontiers in Plant Sciences*, *Journal of Plant Registrations*, *Journal of Economic Entomology*, *Plant Breeding*, *Austin*

Journal of Plant Biology, Theoretical & Applied Genetics, Crop Science, Plant Pathology, Phytopathology, Annals of Applied Biology, Journal of Agricultural Science and Research, Canadian Journal of Plant Pathology, Sugar Tech, Journal of Agricultural Science, Journal of Agronomy and Crop Science, Crop & Pasture Science, Planta, Journal of Advanced Research, BMC Plant Biology, BMC Genomics, PeerJ, Agronomy Journal, Scientific Reports, Genetica, Czech Academy of Agricultural Sciences

- Invited and reviewed one grant proposal for UK Biotech and Bio-Science Research Council.
- Invited and reviewed USDA project plans from Robert Bowden and Robert Graybosch.
- Invited and reviewed four wheat variety release proposals from Texas A&M University.
- Invited and reviewed four book proposals from ELSEVIER.
- Invited and reviewed “Five Year Review of the DST/NRF South African Research Chair” for National Research Foundation of South Africa.
- Invited and reviewed a NASA grant proposal.
- Invited and reviewed a proposal from Saskatchewan Wheat Commission in Canada.

Professional Development:

- March 14 to 16, 2022 Completed the three-day course of “Drone Imagery Collection, Mapping, and Analysis” offered by K-State Salina campus.
- Feb 5 and 7, 2018 Attend “**Beocat workshop**” at K-State, Manhattan, KS
- April 2015 Attend “**Science: Becoming the Messenger**” at K-State, Manhattan, KS
- Jan. 2014 Attended “**GBS Workshop**” at Cornell University, Ithaca, NY.
- Aug. 2012 Attended “**Tenure and Promotion Workshop**” at K-State, Manhattan, KS.
- March 2011 Attended “**NSF Regional Grants Conference**” presented by National Science Foundation, at Vanderbilt University, Nashville, TN.
- Dec. 2010 Attended “**2010 Grantsmanship Workshop**” presented by National Institute of Food and Agriculture, USDA, Washington DC.
- Dec. 2008 Attended “**Grant Writer’s Seminars & Workshops**” at Michigan State University, East Lansing, MI.
- July 1995 Attended “**National Plant Breeding and Genetics Training Camp**” at Chinese Academy of Agricultural Sciences, Beijing, China.