

CONDENSED CURRICULUM VITAE

Amir M.H. Ibrahim

2019

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Citizenship: USA and Sudan

EDUCATION

Time	Degree/University
1998	Ph.D. , Plant Breeding and Genetics, Colorado State University
1994	M.S. , Crop Production, American University of Beirut, Lebanon
1991	B.S. (HONORS) , Crop Science, University of Gezira, Sudan

PROFESSIONAL EXPERIENCE

Time	Position
2018 - Present	Texas A&M System Regents Professor , Dep. of Soil & Crop Sciences, Texas A&M University. Research emphasis is wheat and oat breeding and genetics.
2017 – Present	Texas A&M AgriLife Faculty Fellow , Dep. of Soil & Crop Sciences, Texas A&M University. Research emphasis is wheat and oat breeding and genetics.
2012 – Present	Professor , Dep. of Soil & Crop Sciences, Texas A&M University. Research emphasis is wheat and oat breeding and genetics.
2007 – 2012	Associate Professor , Dep. of Soil & Crop Sciences, Texas A&M University. Research emphasis was wheat and oat breeding and genetics.
2004 – 2007	Associate Professor , Dep. of Plant Sciences, South Dakota State University. Research emphasis was wheat breeding and genetics.
2000 – 2004	Assistant Professor , Dep. of Plant Sciences, South Dakota State University. Research emphasis was wheat breeding and genetics.
1998 – 2000	Postdoctoral Research Associate , Department of Soil and Crop Sciences, Colorado State University. Research emphasis was wheat breeding and genetics.
1995 – 1996	Visiting Scientist , International Maize and Wheat Improvement Center, Mexico.

PROFESSIONAL RECOGNITION

- a. 2019 – Alumni Award, Faculty of Agricultural and Food Sciences, American University of Beirut
- b. 2019 - Regents Professor

- c. 2018 - America Society of Agronomy Fellow
- d. 2016 to 2018 - Advanced Leadership Program, Texas A&M
- e. 2017 - Texas A&M AgriLife Research Faculty Fellow
- f. 2017 - Soil and Crop Sciences Department, Texas A&M - Teaching Award
- g. 2017 - Texas A&M College of Agriculture and Life Sciences Dean's Award: International Impact
- h. 2017 - Crop Sciences Society of America Fellow
- i. 2015 - Texas A&M College of Agriculture and Life Sciences Dean's Award: Multidisciplinary Team
- j. 2013 - Texas A&M Technology Commercialization Team Innovation Award
- k. 2013 - Texas A&M Vice Chancellor's Team Award
- l. 2013 - Soil and Crop Sciences Department, Texas A&M - Individual Achievement Research Award
- m. 2010 – President, Texas Plant Protection Association
- n. 2005 – Wheat Quality Council “Best of Show” (awarded for the highest quality wheat entered into the 2005 Wheat Quality Council trials, Kansas City, Missouri)
- o. 2000 - Honorary society of Sigma Xi
- p. 1998 - Takumi Tsuchiya Graduate Achievement Award, Colorado State University
- q. 1995- 1998 - Graduate assistantship at Colorado State University (Ph.D.)
- r. 1992- 1994 - Royal Government of the Netherlands Scholarship (MS)
- s. 1989 - President, Association of Agronomy, University of Gezira, Sudan
- t. 1988 - Secretary, Faculty of Agricultural Sciences Students' Organization, University of Gezira, Sudan

RESEARCH GRANTS

Projects funded: **\$39,611,107** funded total; **\$4,963,566** to Ibrahim

	Texas A&M AgriLife Research (2007 – present)	Career
Grant total	\$38,208,578	\$39,641,107
Grand total to Ibrahim	\$3,561,037	\$4,993,566

PUBLICATIONS

	Texas A&M AgriLife Research (2007 – present)	Career
Refereed Journal Articles	94	103
Extension Publications	36	40
Book Chapters	0	2
Technical Reports	2	11
Conference/Symposium Proceedings	96	116

Refereed Journal Articles

(Underlined names are students or post-doctoral research associates under Ibrahim)

1. Abdelghafor, R F., A. Mustafa, **A.M.H. Ibrahim**, and P. Krishnan. 2013. Effect of Sorghum Flour Addition on Chemical and Rheological properties of Hard White Winter Wheat. *Adv. Journal of Food Science and Technology* 5:1407-1412.
2. Abdelghafor, R. F., A. Mustafa., **A. M.H. Ibrahim** and P.G. Krishnan. 2011. Quality of Bread from Composite Flour of Sorghum and Hard White Winter Wheat. *Adv. J. Food Sci. Technol.* 3: 9-15.
3. 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.
4. Afzal, F., B. Reddy, A. Gul, M. Khalid, A. Subhani, K. Shazadi, U. Masood Quraishi, **A.M.H. Ibrahim**, and A. Rasheed. 2017. Physiological, biochemical and agronomic traits associated with drought tolerance in a synthetic-derived wheat diversity panel. *Crop and Pasture Science*: <https://doi.org/10.1071/CP16367>.
5. Ali, M., **A.M.H. Ibrahim**, D.B. Hays, Z. Ristic, and J. Fu. 2010. Wild tetraploid wheat (*Triticum turgidum* L.) response to heat stress. *Journal of Crop Improvement* 24:228-243.
6. Ali, M., **A.M.H. Ibrahim**, S. Malla, J. Rudd, and D. Hays. 2013. Family-based QTL mapping of heat stress tolerance in primitive tetraploid wheat (*Triticum turgidum* L.). *Euphytica* 192:189-203.
7. Assanga, S.O., G. Zhang, C.-T. Tan, J.C. Rudd, **A.M.H. Ibrahim**, Q. Xue, S. Chao, M.P. Fuentealba, S.Y. Liu. 2017. Saturated genetic map of wheat streak mosaic virus resistance gene *wsm2* in wheat. *Crop Sci.* 57:332–339.
8. Assanga, S.O., M.P. Fuentealba, G. Zhang, C.-T. Tan, S. Dhakal, J.C. Rudd, **A.M.H. Ibrahim**, Q. Xue, S. 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* e0189669-e0189669.
9. Attia, A., N. Rajan, G. Ritchie, S. Cui, **A.M.H. Ibrahim**, D. Hays, Q. Xue, and J. Wilborn. 2015. Yield, Quality, and Spectral Reflectance Responses of Cotton under Sub-Surface Irrigation. *Agronomy Journal* 107:1355–1364.
10. Attia, A., N. Rajan, Q. Xue, S. Nair, **A.M.H. Ibrahim**, and D. Hays. 2016. Application of DSSAT-CERES-Wheat model to simulate winter wheat response to irrigation management in the Texas High Plains. *Agricultural Water Management* 165: 50–60.
11. Attia, A. N. Rajan, **A.M.H. Ibrahim**, Q. Xue, P. Delaune, S. Nair, and D. Hays. 2016. Modeling Cotton Lint Yield and Water Use Efficiency Responses to Various Irrigation Scheduling Strategies. *Agronomy Journal* 108:1–10.
12. Babiker, E., **A.M.H. Ibrahim**, Y. Yen, and J. Stein. 2009. Development of a Microsatellite Marker for tagging stem rust resistance gene *Sr35* in wheat. *Aust J. Crop Sci* 3:195-200.
13. Babar, M. A., A. R. Blount, R. R. Barnett, C. Mackowiak, M. Akond, S. A. Harrison, J. W. Johnson, M. Mergoum, E. Mason, P. Murphy, **A.M.H. Ibrahim**, R. Sutton, and B. Simoneaux. 2016. Registration of “FL720” Oat. *Journal of Plant Registration*

doi:10.3198/jpr2016.04.0025crc.

14. Baenziger, P.S., R. A. Graybosch, L. A. Nelson, T. Regassa, R. N. Klein, D. D. Baltensperger, D. K. Santra, **A. M. H. Ibrahim**, W. Berzonsky, J. M. Krall, L. Xu, S. N. Wegulo, M. L. Bernards, Y. Jin, J. Kolmer, J. H. Hatchett, Ming-Shun Chen, and Guihua Bai. 2011. Registration of 'NH03614 CL' Wheat. *J. Plant Registrations* 5:75-80.
15. Baenziger, P.S., R. A. Graybosch, **A.M.H. Ibrahim**, D. D. Baltensperger, L. A. Nelson, Y. Jin, Stephen Wegulo, J. E. Watkins, Ming-Shun Chen, Guihua Bai, B. Beecher, and J. H. Hatchett. 2008. Registration of 'NE01643' wheat. *Journal of Plant Registrations* 2:36-42.
16. Basnet, B.R., M.B. Ali, **A.M.H. Ibrahim**, T. Payne, M.G. Mosaad. 2011. Evaluation of genetic bases and diversity of Egyptian wheat cultivars released during the last 50 years using coefficient of parentage. *Communications in Biometry and Crop Science* 6: 31–47.
17. Basnet, B.R., K. Glover, Y. Yen, S. Chao, and **A.M.H. Ibrahim**. 2012. A QTL on chromosome 2DS of 'Sumai 3' increases susceptibility to Fusarium Head Blight in wheat. *Euphytica* 186:91-101.
18. Basnet B. R., **A. M. H. Ibrahim**, J. Rudd, R.P. Singh, J. Huerta-Espino and S. Herrera. 2013. Genetic analysis of Adult plant Stripe and leaf rust resistance in spring wheat line Quaiu3. *Plant Disease* 97:728-736.
19. Basnet, B.R., R. P. Singh, **A. M. H. Ibrahim**, S. A. Herrera-Foessel, J. Huerta-Espino, C. Lan & J. C. Rudd. 2014. Characterization of Yr54 and other genes associated with adult plant resistance to yellow rust and leaf rust in common wheat Quaiu 3. *Molecular Breeding* 33:385-399.
20. Basnet B.R., **A.M.H Ibrahim**, X. Chen, R.P Singh, D.B. Hays, E.R Mason, S. Liu, R. Bowden , 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 Science* 54:1-13.
21. Beecher, F., E. Mason, S. Mondal, **A. M. H. Ibrahim**, and D. Hays. 2012. Identification of Quantitative Trait Loci (QTLs) Associated with Maintenance of Wheat (*Triticum aestivum* Desf.) End-use Quality under Heat Stress Conditions. *Euphytica* 188:361–368.
22. Bockus, W. W., P. S. Baenziger, and **A. M. H. Ibrahim**. 2008. Reaction of Kansas, Nebraska, and South Dakota winter wheat accessions to Fusarium head blight (FHB), 2007. *Plant Disease Management Reports*. 1:CF009.
23. Boote, K.J., **A.M.H. Ibrahim**, R. Lafitte, R.L. McCulley, C. Messina, S.C. Murray, J.E. Specht, S. Taylor, M.E. Westgate, K. Glasener, C.G. Bijil, and J.H. Giese. 2011. Position statement on crop adaptation to climate change. *Crop Sci.* 51:2337-2343.
24. Butcher, J.D., K. M. Crosby, **A.M.H. Ibrahim**, D. I. Leskovar, L. Jifon, K.S. Yooi, and B. Patil. 2012. Environmental and genotypic variation of Capsaicinoid and flavonoid concentrations in Habanero (*Capsicum chinense*) peppers. *HortScience* 47:574-579.
25. Chen, Y., J. T. Cothren, D. Chen, **A. M. H. Ibrahim**, and L. Lombardini. 2014. Effect of 1-MCP on Cotton Plants under Abiotic Stress Caused by Ethephon. *American Journal of Plant Sciences* 5: 3005-2016.
26. Chen, Y., J. Dehua Chen, T. Cothren, **A. M.H. Ibrahim**, L. Lombardini. 2014. Effect of 1-MCP on boll development and subtending leaves of cotton plants. *American Journal of Plant Sciences* 5:3345-3353.

27. Chen, Y., J. T. Cothren, C. De-hua, **A. M.H. Ibrahim**, and L. Lombardini. 2015. Ethylene inhibiting compound 1-MCP delays leaf senescence in cotton plants under abiotic stress conditions. *Journal of Integrative Agriculture*. Doi : 10.1016/S2095-3119(14)60999-0.
28. Cooper, J., **A.M.H. Ibrahim**, J. Rudd, D. Hays, J. Baker, and S. Malla. 2012. Increasing Hard Winter Wheat Yield Potential via Synthetic Wheat: I. Path-coefficient Analysis of Yield and its Components. *Crop Science* 52: 2014-2022.
29. Cooper, J., **A.M.H. Ibrahim**, J. Rudd, D. Hays, J. Baker, and S. Malla. 2013. Increasing Hard Winter Wheat Yield Potential via Synthetic Wheat: II. Heritability and Combining Ability of Yield and its Components. *Crop Science* 53: 67-73.
30. 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. <https://doi.org/10.1007/s11032-018-0879-x>
31. Darapuneni, M.K., G.D. Morgan, **A.M.H. Ibrahim**, and R.W. Duncan. 2014. Effect of vernalization and photoperiod on flax flowering time. *Euphytica* 195:279-285.
32. Darapuneni, M.K., G. D. Morgan, **A. M. H. Ibrahim**, and R. W. Duncan. 2014. Association of flax seed yield and its components in Southeast Texas using path coefficient and biplot analyses. *Journal of Crop Improvement* 28:1–17.
33. Darapuneni, M.K., G.D. Morgan, **A.M.H. Ibrahim**, and R.W. Duncan. 2014. Evaluation of flax genotypes for cold tolerance and yield in South-East Texas. *J Agro Crop Sci* ISSN 0931-2250. DOI: 10.1111/jac.12097.
34. Darapuneni, M.K., G. D. Morgan, **A. M. H. Ibrahim**, R. W. Duncan, B. Bean, T. Baughman, C. Trostle, L. Tarpley, R. Sutton, J. Grichar, and B. Wiedenfeld. 2014. The evaluation of cool-season oilseed crops for yield and adaptation in Texas: an approach for selection of efficient biofuel feedstock. *International Journal of Agronomy and Agricultural Research* 5:62-74.
35. Eder, Z.P., S. Singh, D. Fromme, D.A. Mott, **A.M.H. Ibrahim**, and G. D. Morgan. 2017. Cotton harvest aid regimes and their interaction with cotton cultivar characteristics impacting leaf grade. *Agronomy Journal* 109: 2714-2722.
36. Fu, J., R.L. Bowden, P.V. Prasad, and **A.M.H. Ibrahim**. 2015. Genetic Variation for Heat Tolerance in Primitive Cultivated Subspecies of *Triticum turgidum* L. *Journal of Crop Improvement* 29:565–580.
37. Gerrish, B., **A.M.H. Ibrahim**, J.C. Rudd, C. Neely, and N.K. Subramanian. 2019. Identifying mega-environments for hard red winter wheat (*Triticum aestivum* L.) production in Texas. *Euphytica*. 215:129 <https://doi.org/10.1007/s10681-019-2448-8> [0123456789](https://doi.org/10.1007/s10681-019-2448-8).
38. Glover, J.D., J.P. Reganold, L.W. Bell, J. Borevitz, E.C. Brummer, E.S. Buckler, C.M. Cox, T.S. Cox, T.E. Crews, S.W. Culman, L.R. DeHaan, D. Eriksson, B.S. Gill, J. Holland, F. Hu, B.S. Hulke, **A.M.H. Ibrahim**, W. Jackson, S.S. Jones, S.C. Murray, A.H. Paterson, E. Ploschuk, E.J. Sacks, S. Snapp, D. Tao, D.L. Van Tassel, L.J. Wade, D.L. Wyse, Y. Xu. 2010. Increased food and ecosystem security via perennial grains. *Science* 328:1638-1639.
39. Gu, X.-Y., L. Zhang, K. Glover, C. Chu, S.S. Xu, J.D. Faris, T.L. Friesen, **A. M.H. Ibrahim**. 2010. Genetic variation of seed dormancy in synthetic hexaploid wheat-derived

- populations. *Crop Sci.* 50:1318–1324.
40. Hakizimana, F., **A. M. H. Ibrahim**, M. C. A. Langham, J. C. Rudd, and S. D. Haley. 2004. Generation means analysis of *wheat streak mosaic* virus resistance in winter wheat. *Euphytica* 139: 133-139.
 41. Hakizimana, F., **A. M. H. Ibrahim**, M. C. A. Langham, S. D. Haley, and J. C. Rudd. 2004. Diallel Analysis of Wheat Streak Mosaic Virus Resistance in Winter Wheat. *Crop Sci.* 44:89-92.
 42. Harrison, S.A., M. A. Babar, A. R. Blount , R. R. Barnett, C. Mackowiak, M. Akond, J. W. Johnson, M. Mergoum, E. Mason, P. Murphy, **A. M. H. Ibrahim**, R. Sutton, and B. Simoneaux. 2016. LA05006, a dual-purpose oat for Louisiana and other southeastern regions of the USA. *Journal of Plant Registration* (Accepted).
 43. Huggins, T.D., S. Mohammed, P. Sengodan, **A.M.H. Ibrahim**, M. Tilley, and D.B. Hays. 2018. Changes in leaf epicuticular wax load and its effect on leaf temperature and physiological traits in wheat cultivars (*Triticum aestivum* L.) exposed to high temperatures during Anthesis. *J Agro Crop Sci.* 204:49–61.
 44. **Ibrahim, A. M. H.**, and J.S. Quick. 2001. Genetic control of high temperature tolerance in wheat as measured by membrane thermal stability. *Crop Sci.* 44:1405-1407.
 45. **Ibrahim, A. M. H.**, and J.S. Quick. 2001. Heritability of heat tolerance in winter and spring wheat. *Crop Sci.* 44:1401-1405.
 46. **Ibrahim, A.M.H.**, S.D. Haley, P. S. Baenziger, Y. Jin, M.A.C. Langham, J. Rickertsen, S. Kalsbeck, R. Little, J. Ingemansen, O.K. Chung, B.W. Seabourn, G.H. Bai, Ming-Shun Chen and D.V. McVey. 2008. Registration of ‘Alice’ wheat. *Journal of Plant Registrations* 2:110-114.
 47. **Ibrahim, A.M.H.**, S.D. Haley, P. S. Baenziger, Y. Jin, M.A.C. Langham, J. Rickertsen, S. Kalsbeck, R. Little, J. Ingemansen, O.K. Chung, B.W. Seabourn, G.H. Bai, Ming-Shun Chen and D.V. McVey. 2008. Registration of ‘Darrell’ wheat. *Journal of Plant Registrations* 2:115-119.
 48. **Ibrahim, A.M.H.**, J. Johnson, R. Sutton, G. Morgan, J. Rudd, L.R. Nelson, A. Knutson, J.J. Heitholt, and G.D. Buntin. 2010. Registration of ‘TAMsoft 700’ wheat. *Journal of Plant Registrations* 4:50-54.
 49. **Ibrahim, A.M.H.**, S.D. Haley, Y. Jin, M.A.C. Langham, C. Stymiest, J. Rickertsen, S. Kalsbeck, R. Little, O.K. Chung, B.W. Seabourn, and D.V. McVey. 2004. Registration of ‘Expedition’ wheat. *Crop Sci.* 44:1470.
 50. **Ibrahim, A.M.H.**, S.D. Haley, Y. Jin, M.A.C. Langham, J. Rickertsen, S. Kalsbeck, R. Little, O.K. Chung, B.W. Seabourn, and D.V. McVey. 2006. Registration of ‘Wendy’ wheat. *Crop Sci.* 46: 1389 -1390.
 51. **Ibrahim, A.M.H.**, J. Rudd, R. Devkota, J. Baker, R. Sutton, B. Simoneaux, G. Opeña, R. Herrington, L. Rooney, L. Dykes, J. Awika, L. R. Nelson, A. Fritz, R. L. Bowden, R. A. Graybosch, Y. Jin, B. W. Seabourn, X. Chen, J. Kolmer, P. St. Amand, G. Bai, and R. Duncan. 2015. Registration of ‘TAM 305’ wheat. *Journal of Plant Registrations* 9:325–330.
 52. **Ibrahim, A.M.H.**, R. Herrington, R. Sutton, B. Simoneaux, S. A Harrison, A. R. Blount, P. Murphy, R.D. Barnett, E. Mason, M.A. Babar, R.W. Duncan, J. Rudd, G. Opeña, L.R. Nelson, D.R. West, M.L. Carson, J. Baker, D.B. Hays, J.W. Johnson, M. Mergoum, M.O.

- Fountain. 2018. Registration of 'TAMO 411' Oat. Journal of Plant Registrations doi:10.3198/jpr2017.08.0051crc.
53. Islamovic, E., D. E. Obert, R. E. Oliver, S. A. Harrison, **A.M.H. Ibrahim**, J. M. Marshall, K. J. Miclaus, G. Hu, and E. W. Jackson, 2013: Genetic dissection of grain beta-glucan and amylose content in barley (*Hordeum vulgare* L.). *Mol. Breeding* 31: 1 - 25.
 54. Islamovic, E., D. E. Obert, R. E. Oliver, J. M. Marshall, K.J. Miclaus, A. Hang, S. Chao, G. Lazo, S. Harrison, **A.M.H. Ibrahim**, E. N. Jellen, P. J. Maughan, R. H. Brown and E. W. Jackson. 2013. A new genetic linkage map of barley (*Hordeum vulgare* L.) facilitates genetic dissection of height and spike length and angle. *Field Crops Research* 154:91-99.
 55. Jamil, M., A. Ali, A. Gul, A. Ghafoor, **A. M.H. Ibrahim**, and A. Mujeeb-Kazi. 2018. Genome-Wide Association Studies for Spot Blotch (*Cochliobolus sativus*) Resistance in Bread Wheat Using Genotyping-by-Sequencing. *Phytopathology*. 108: 1307-1314 doi.org/10.1094/PHYTO-02-18-0047-R.
 56. Jondiko, T., L. Novie, D. Hays, **A.M.H. Ibrahim**, M. Tilley, and J. Awika. 2012. Effect of high molecular weight glutenin allele substations on wheat flour tortilla quality. *Cereal Science* 89:155-161.
 57. Jondiko, T.O., L. Yang, D. B. Hays, **A. M.H. Ibrahim**, M. Tilley, and J. M. Awika. 2016. Prediction of wheat tortilla quality using multivariate modeling of kernel, flour, and dough properties. *Innovative Food Science and Emerging Technologies* 34: 9-15.
 58. Johnson, J.W. , Z. Chen, J. W. Buck, G.D. Buntin, M. A. Babar, R. E. Mason, S. A. Harrison, J. P. Murphy, **A. M. H. Ibrahim**, R. L. Sutton, B. E. Simoneaux, H. E. Bockelman, B. K. Baik, D. Marshall, C. Cowger, G. L. Brown-Guedira, J. A. Kolmer, Y. Jin, X. Chen, S. E. Cambron and M. Mergoum. 2017. 'GA 03564-12E6': A High-Yielding Soft Red Winter Wheat Cultivar Adapted to Georgia and the Southeastern Regions of the United States. *Journal of Plant Registrations*. 11:159-164.
 59. Johnson, J.W., Z. Chen, J.W. Buck, G.D. Buntin, M.A. Babar, R.E. Mason, S.A. Harrison, J.P. Murphy, **A.M.H. Ibrahim**, R.L. Sutton, B.E. Simoneaux, H.E. Bockelman, B.K. Baik, D. Marshall, C. Cowger, G.L. Brown-Guedira, J.A. Kolmer, Y. Jin, X. Chen, S.E. Cambron, and M. Mergoum. 2018. 'Savoy', an Adapted Soft Red Winter Wheat Cultivar for Georgia and the Southeast Regions of the United States. *Journal of Plant Registrations* 12:85–89.
 60. Karki, D., K. D. Glover, J. Fahey, F. T. Halaweish, and **A. M.H. Ibrahim**. 2013. Variability and Heritability of Grain Extracts in Spring and Winter Wheat grown in South Dakota. *J. Crop Improvement*. 27:547-560.
 61. Klos, K. E., B. A. Yimer, E. M. Babiker, A. D. Beattie, J. M. Bonman, M. L. Carson, J. Chong, S. A. Harrison, **A. M.H. Ibrahim**, F. L. Kolb, C. A. McCartney, M. McMullen, J. Mitchell Fetch, M. Mohammadi, J.P. Murphy, N. A. Tinker. 2017. Genome-wide association mapping of crown rust resistance in oat elite germplasm. *Plant Gen*. Accepted Paper, posted 03/15/2017. doi:10.3835/plantgenome2016.10.0107.
 62. Klos, K.E. Y. Huang, W. A. Bekele, D. E. Obert, E. Babiker, A. D. Beattie, Å. Bjørnstad, J. M. Bonman, M. L. Carson, S. Chao, B. N. Gnanesh, I. Griffiths, S. A. Harrison, C. J. Howarth, G. Hu, **A. M.H. Ibrahim**, E. Islamovic, E. W. Jackson, J. L. Jannink, F. L. Kolb, M. S. M., J. M. Fetch, J. P. Murphy, H. W. Ohm, H. W. Rines, B. G. Rosnagel, J. A. Schlueter, M. E. Sorrells, C. P. Wight, W. Yan, and N. A. Tinker. 2016. Population genomics related to adaptation in elite oat germplasm. *Plant Genome* Volume 9. doi:

- 10.3835/plantgenome2015.10.0103.
63. Kondhia, A., R.E. Tabien, and **A.M.H. Ibrahim**. 2015. Evaluation and selection of high biomass rice (*Oryza sativa* L.) for drought tolerance. American Journal of Plant Sciences 6: 1962 - 1972.
 64. Langham, M. A. C., D.C. Doxtader, S.D. Haley, S. Kalsbeck, R.S. Little, and **A.M.H. Ibrahim**. 2001. Yield and growth reductions in winter wheat infected with wheat streak mosaic virus. Phytopathology 91:52.
 65. Liu, D., Y. Yen and **A.M.H. Ibrahim**. 2003. Screening elite South Dakota winter wheat for SSR markers linked to *Fusarium* head blight resistance. Proc. SD Acad. Sci. 82:19-25.
 66. 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. Devkota, 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.
 67. Liu, S., S. O. Assanga, S. Dhakal, X. Gu, C.T. Tan, Y. Yang, J. Rudd, D. Hays, **A.M.H. Ibrahim**, Q. Xue, S. Chao, R. Devkota, C. Shachter, T. Huggins, S. Mohammed, and M. P. Fuentealba. 2016. Validation of Chromosomal Locations of 90K Array Single Nucleotide Polymorphisms in US Wheat. Crop Sci 56: 364 – 373.
 68. Liu, X., S. Feakins, X. Dong, Q. Xue, T. Marek, D. Leskovar, C. Neely, and **A.M.H. Ibrahim**. 2017. Experimental study of leaf wax n-alkane response in winter wheat cultivars to drought conditions. Organic Geochemistry. 113: 2010-223.
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248. Sengodan, P., **A.M.H. Ibrahim**, J.C. Rudd, S. Liu and D.B. Hays. Influence of epicuticular leaf wax in wheat TAM 111 X TAM 112 RIL population, ASA-CSSA-SSSA annual meetings, 3-7, November, 2013, Tampa, FL.

249. Sengodon, P., **A.M.H. Ibrahim**, J.C. Rudd and D.B. Hays. Role of epicuticular leaf wax in heat and drought tolerance in wheat in a TAM 111 X TAM 112 RIL population, Small grains worker annual meetings, 6-8, August 2013, Amarillo, TX.
250. Sengodon, P., **A.M.H. Ibrahim**, J. C. Rudd and D.B. Hays. Defining the role of leaf wax in heat tolerance in a winter wheat population, Keystone Symposia, 17-22, January 2013, New Mexico.
251. Tan, C.T., S. Y. Liu, S. Assanga, S. Dhakal, Y. Yang, J.C. Rudd, Q. Xue, **A.M.H. Ibrahim**, G. Zhang, X. Xu, G. Bai, M. Chen, R.N. Devkota, H. Yu, L. Garza. 2017. Developing KASP Markers for Wheat Pest Resistance in the US High Plains. Plant and Animal Genome Conference XXV. Jan. 14-18, San Diego, CA USA.
252. Tan, C.T., S. Assanga, S. Dhakal, Y. Yang, J.C. Rudd, Q. Xue, **A.M.H. Ibrahim**, G. Zhang, X. Xu, G. Bai, M. Chen, R.N. Devkota, H. Yu, L. Garza, S-Y. Liu. Developing high throughput KASP markers for wheat pest and disease resistance in the US High Plains. Workshop from Wheat Initiative for Achieving Durable Resistance to Wheat Diseases and Pests, Nov 2-4, Minneapolis, MN.
253. Tan, C.T., S. Assanga, S. Dhakal, J.C. Rudd, Q. Xue, **A.M.H. Ibrahim**, G. Zhang, G. Bai, S. Haley, L. Garza, H. Yu, **S-Y. Liu**. 2016. Development of high throughput SNPs for host plant resistance in wheat. Joint Edgar McFadden Symposium/ Hard Winter Wheat Workers Workshop. April 17-20, San Antonio, Texas.
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256. Thompson, S.M., A. Delgado, R. E. Mason, C. M. Cossani, M. P. Reynolds, **A.M.H. Ibrahim**, R. E. Lacey, R. A. Washington-Allen and D. B. Hays 2013. Estimating Wheat Root Biomass Using Ground Penetrating Radar. CIMMYT Remote Sensing - Beyond Images, Mexico City, Federal District, MEX (Invited Talk).
257. Thompson, S.M., C. M. Cossani, A. M. H. Ibrahim, A. Delgado, D. Goodman, and D.B. Hays 2013. Estimating Wheat Root Biomass Using Ground Penetrating Radar. ASA, CSSA, and SSSA International Annual Meeting, Tampa, Florida, USA. (Oral).
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259. Thompson, S.M., C. M. Cossani, P. Chavez, D. B. Hays, **A.M.H. Ibrahim**, and M. P. Reynolds 2013. Root Phenotyping with Ground Penetrating Radar. 3rd Wheat Yield Consortium Workshop, International Maize and Wheat Improvement Center (CIMMYT), Ciudad Obregón, Sonora, MEX. (Oral).
260. Thompson, S.M., C. M. Cossani, **A.M.H. Ibrahim**, R. A. Washington-Allen, M. P.

- Reynolds, and D. B. Hays 2012. Estimating Wheat Root Biomass Using Ground Penetrating Radar. 24th Annual Texas Plant Protection Conference “Facing Ag’s Future”, Bryan, Texas, USA. (Poster).
261. Thompson, S.M., A. Delgado, A. M. Franks, R. A. Washington-Alle, R. W. Duncan, **A.M.H. Ibrahim**, and D. B. Hays 2012. Estimating Forage Wheat Biomass From 3-D Vegetation Parameters Collected Using a Terrestrial Laser Scanner. ASA, CSSA, and SSSA International Annual Meeting, Cincinnati, Ohio, USA. (Talk) *3rd place student competition.
262. Thompson, S.M., A. Delgado, A. M. Franks, R. A. Washington-Alle, R. W. Duncan, **A.M.H. Ibrahim**, and D. B. Hays 2011 3-D Laser Scanning and Agriculture, a Potential Tool for the Next Generation Plant Breeder. Small Grains Workers Annual Meeting, Vernon, Texas, USA. (Oral).
263. Xue Q., K.E. Jessup, G.P. Pradhan, S. Ajayi-Olanrewaju, X. Hou, J.C. Rudd, SY Liu, **A.M.H. Ibrahim**, R.N. Devkota. 2017. Evaluation of Physiological Traits Associated with Wheat Yield in the Southern High Plains. ASA-CSSA-SSSA International Annual Meeting. Oct. 22-25, Tampa, FL USA.
264. Winther, D., S.A. Kalsbeck, R.S. Little, and **A.M.H. Ibrahim**. 2002. Custom-designed, precision no-till/conventional headrow and plot drill. ASA Meetings. Indianapolis, Indiana. (Poster presentation).
265. Woloohojian, L., C.B. Neely, **A.M.H. Ibrahim**, A.D. Hathcoat, T.A. Dickerson, P. Hays, K. Smith. 2014. *Barley: A new perspective on an old crop in Texas*. In proc. Texas Plant Protection Conference. December 10, 2014. Bryan, TX.
266. Woloohojian, L., K. Wynne, C.B. Neely, **A.M.H. Ibrahim**, D. Hathcoat, C.L. Trostle, R.L. Sutton, P.M. Hayes, and K. Smith. 2017. Identifying Adapted Lines and Favorable Environments for Malt Barley Production in Texas. In proc. ASA-CSSA-SSSA Annual Conference. October 24, 2017. Tampa Bay, FL.
267. Wynne, K., L. Woloohojian, C.B. Neely, **A.M.H. Ibrahim**, D. Hathcoat, P. Hayes, and K. Smith. 2017. Identifying Adapted Lines and Favorable Environments for Malt Barley Production in Texas. In proc. Texas Plant Protection Conference. December 5, 2017. Bryan, TX.
268. Valenzuela-Antelo J., Amir M.H. Ibrahim, M. Thomson, B. Kim, S.-Y. Liu, J.C. Rudd. 2018. Editing the red grain color homoeologous genes to develop a white grain cultivar. Genome Editing Symposium. Oct 4-5, 2018. College Station, Texas.
269. Valenzuela-Antelo J., Amir M.H. Ibrahim, S.-Y. Liu, J.C. Rudd and M. Thomson. 2018. Genetic mapping of QTL linked to Green bug resistance and gene editing in Wheat. Texas Small Grain Workers Meeting, College Station, Texas. Aug. 1-2, 2018.
270. Yang, Y., B. Basnet, S. Liu, **A.M.H. Ibrahim**, J. C. Rudd, Q. Xue, C. Johnson. 2014. Analysis of QTL by environment interactions for stripe rust resistance in TAM 111 using saturated genetic maps with SNP and Genotyping-by-Sequencing markers. The 26th Annual Texas Plant Protection Conference, December 10-11, 2014, Bryan, TX.
271. Yang Y., B.R. Basnet, **A.M.H. Ibrahim**, J.C. Rudd, Q. Xue, S. Wang, C. Johnson, R. Metz, X. Chen, R.L. Bowden, R.E. Mason, D.B. Hays and S-Y. Liu. 2017. Study of QTL by environment interactions for stripe rust resistance in TAM 111 using saturated genetic maps with 90K and GBS SNPs. ASA-CSSA-SSSA International Annual Meeting. Oct. 22-25,

Tampa, FL USA. Also presented in Texas Plant Protection Association Annual Meeting. Dec 5, 2017. Bryan/College Station, TX.

272. Yang Y., S. Dhakal, C. Chu, S. Wang, Q. Xue, J. C. Rudd, A.M.H. Ibrahim, J. Baker, K. Jessup, L. Garza, R. Devkota, S. Baker, G. Opena, C. Johnson, R. Metz, and S.-Y. Liu. 2018. Association analyses for yield and yield components in synthetic derived winter wheat lines. ASA-CSSA Annual International Meeting, Baltimore, MD. Nov. 4-7, 2018.
273. Yang, Y., C.T. Tan, X.Y Xu, J.C. Rudd, Q. Xue, **A.M.H. Ibrahim**, S.Y. Liu. 2016. Genetic mapping and Kaspar SNP markers validation of greenbug resistance gene *Gb7* in wheat. Joint Edgar McFadden Symposium/ Hard Winter Wheat Workers Workshop. April 17-20, San Antonio, Texas.

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304. Popular Press Articles
305. Texas A&M Wheat Improvement Program finds spotlight in Washington. Texas A&M AgriLife – Ag News. February 8, 2018. Written by Kay Ledbetter.
306. AgriLife Research Unmanned Aerial Systems program receives update. Texas A&M AgriLife – Ag News. January 25, 2018. Written by Blair Fannin.
307. Ibrahim honored as Texas A&M AgriLife Research Faculty Fellow. Texas A&M AgriLife

- Ag News. January 6, 2018. Written by Kay Ledbetter.
308. Researchers: Barley is ideal for cool-season cattle grazing. Texas A&M AgriLife – Ag News. December 22, 2017. Written by Kay Ledbetter.
309. Genetic discovery another tool in battle against wheat pests. Texas A&M AgriLife – Ag News. November 2, 2017. Written by Kay Ledbetter.
310. Ibrahim, Smith named Fellows by Crop Sciences Society of America. Texas A&M AgriLife – Ag News. October 27, 2017. Written by Kay Ledbetter.
311. Can ‘reading’ leaves lead to more drought-tolerant crops? Texas A&M AgriLife – Ag News. August 17, 2017. Written by Paul Schattenberg.
312. Texas A&M AgriLife partners with Tunisia to improve soil management. Texas A&M AgriLife – Ag News. June 23, 2017. Written by Kay Ledbetter.
313. Hybrid wheat breeding gets almost \$1 million USDA investment. Texas A&M AgriLife – Ag News. December 19, 2016. Written by Kay Ledbetter.
314. Public wheat breeder consortium to be developed by USDA grant. Texas A&M AgriLife – Ag News. December 17, 2016. Written by Kay Ledbetter.
315. Hybrid wheat time has come. Texas A&M AgriLife – Ag News. February 25, 2016. Written by Kay Ledbetter.
316. New wheat genetic advancements aimed at yield enhancement. Texas A&M AgriLife – Ag News. February 21, 2016. Written by Kay Ledbetter.
317. Texas A&M Wheat Improvement Team recognized. Texas A&M AgriLife – Ag News. October 2, 2015. Written by Kay Ledbetter.
318. From drought to rust, Texas A&M wheat breeders prepare for the elements. Texas A&M AgriLife – Ag News. June 12, 2015. Written by Kay Ledbetter.
319. ‘Texas-bred’ wheat traits headed to Africa. Texas A&M AgriLife – Ag News. December 2, 2014. Written by Kay Ledbetter.
320. U.S. education provides stepping stone to agricultural advancement in developing countries. Texas A&M AgriLife – Ag News. July 17, 2014. Written by Kay Ledbetter.
321. Uvalde wheat, vegetable field day sows interest among area producers. Texas A&M AgriLife – Ag News. April 25, 2014. Written by Paul Schattenberg.
322. Texas A&M AgriLife wheat team presented Vice Chancellor’s Award in Excellence. Texas A&M AgriLife – Ag News. January 8, 2013. Written by Kay Ledbetter.
323. Texas A&M students recognized as Monsanto’s Beachell-Borlaug International Scholars. Texas A&M AgriLife – Ag News. April 11, 2013. Written by Kay Ledbetter.
324. Can wheat become a more ‘statewide’ crop? Texas A&M AgriLife – Ag News. May 28, 2014. Written by Kay Ledbetter.
325. New oat and winter wheat varieties released by Texas A&M AgriLife Research. Texas A&M AgriLife – Ag News. September 4, 2012. Written by Kay Ledbetter.
326. High-tech tools may help small grains breeders ‘see’ valuable plant traits faster. Texas A&M AgriLife – Ag News. May 31, 2012. Written by Kay Ledbetter.
327. Texas AgriLife Research and Bayer CropScience join forces to advance wheat research. Texas A&M AgriLife – Ag News. February 20, 2012. Written by Kay Ledbetter.
328. AgriLife Research study aimed at reducing drought-stress losses to wheat. Texas A&M AgriLife – Ag News. December 14, 2011. Written by Kay Ledbetter.
329. AgriLife Research releases new wheat variety for High Plains. Texas A&M AgriLife –

- Ag News. December 22, 2010. Written by Kay Ledbetter.
330. Texas Plant Protection Conference Dec. 6-7 in Bryan Climate change, weed resistance, farm credit to be discussed. Texas A&M AgriLife – Ag News. November 2, 2010. Written by Blair Fannin.
331. AgriLife Research identifies wheat streak resistance gene. Texas A&M AgriLife – Ag News. August 23, 2010. Written by Kay Ledbetter.
332. Christopher Chick wins Monsanto Beachell-Borlaug Fellowship Texas A&M AgriLife – Ag News. June 24, 2010. Written by Kay Ledbetter.
333. Wheat survey shows AgriLife Research variety top pick statewide. Texas A&M AgriLife – Ag News. June 4, 2009. Written by Kay Ledbetter.
334. AgriLife Research wheat nursery helps identify rust disease issues for Great Plains. Texas A&M AgriLife – Ag News. May 28, 2009. Written by Kay Ledbetter.
335. Wheat field day offers look back, forward. Texas A&M AgriLife – Ag News. May 11, 2009. Written by Kay Ledbetter.
336. Texas Wheat Board funds record-setting research budget. Texas A&M AgriLife – Ag News. May 1, 2009. Written by Kay Ledbetter.
337. Interest in Texas wheat improves as quality goes up. Texas A&M AgriLife – Ag News. February 5, 2009. Written by Kay Ledbetter.
338. Texas Crop, Weather. Texas A&M AgriLife – Ag News. June 4, 2008.

Technology transfer and Intellectual Property Release of Cultivars and Other Genetic Materials

Cultivar	Year	Class	Institution	Developers	PVP	Adaptation
TAMsp 801	2017	HRS	Licensed to Douglas King Ltd.	Ibrahim et al.	Pending	TX
Oahe	2016	HRW	South Dakota Experiment Station	Seghal et al.	Pending	SD, ND, NE, MN
L11544 (GA 03564-12E6)	2016	SRW	University of Georgia	Johnson et al.	Yes	GA, TX, LA, AR, FL, SC, NC
TAM 114	2014	HRW	Texas AgriLife Research	Rudd et al.	Yes	TX, OK, KS, CO, NMNE
TAM 204	2014	HRW	Texas AgriLife Research	Rudd et al.	Yes	TX, OK
FL0720	2014	Oat	University of Florida	Babar et al.	Yes	FL, LA, GA, OK, AR, TX
Redfield	2013	HRW	South Dakota Experiment Station	Berzonsky et al.	Yes	SD, ND, NE, MN
TAM 305	2012	HRW	Texas AgriLife Research	Ibrahim et al.	Yes	TX, OK, KS
TAMO 411	2012	Oat	Texas AgriLife Research	Ibrahim et al.	Yes	TX, LA, GA, OK, AR, FL
TAM 113	2010	HRW	Texas AgriLife	Rudd et al.	Yes	TX, OK, KS,

			Research			CO, NM
'LA05006	2012	Oat	Louisiana Ag. Center	Harrison et al.	Yes	TX, LA, GA, OK, AR, FL
Ideal	2010	HRW	South Dakota Ag. Expt. Stn.	Berzonsky and Ibrahim	Yes	SD, ND, NE, MN
TAMsoft 700	2009	SRW	Texas AgriLife Research	Ibrahim et al.	Yes	TX, GA, LA
TAM 401	2008	HRW	Texas AgriLife Research	Rudd et al.	Yes	TX, OK, KS
Lyman	2008	HRW	South Dakota Ag. Expt. Stn.	Ibrahim et al.	Yes	SD, NE, ND
Settler CL (NH03614 CL)	2008	HRW	Nebraska Ag. Expt. Stn. & South Dakota Ag. Expt. Stn.	Baenziger et al.	Yes	NE, SD, ND, MN
Overland (NE01643)	2007	HRW	Nebraska Ag. Expt. Stn. & South Dakota Ag. Expt. Stn.	Baenziger et al.	Yes	NE, SD, ND, MN
Darrell	2006	HRW	South Dakota Ag. Expt. Stn. & Nebraska Ag. Expt. Stn.	Ibrahim et al.	Yes	NE, SD, ND, MN
Alice	2006	HW	South Dakota Ag. Expt. Stn. & Nebraska Ag. Expt. Stn.	Ibrahim et al.	Yes	NE, SD, ND, MN
Wendy	2004	HW	South Dakota Ag. Expt. Stn.	Ibrahim et al.	Yes	NE, SD, ND, MN
Expedition	2002	HRW	South Dakota Ag. Expt. Stn.	Ibrahim et al.	Yes	NE, SD, ND, MN, MT

SRW = soft red winter wheat, HRW = hard red winter wheat, HW = hard white wheat, HRS = hard red spring wheat.

SERVICE

Service activities

- a. Chair of the National Wheat Improvement Committee (NWIC) – Great Plains area, 2018 – Present
- b. Member of the College of Agriculture and Life sciences Peer Review Committee, 2018 - Present
- c. Wheat 101: Represented Texas A&M University at “Wheat 101” an exhibit at the U.S. Capitol that shows the importance of wheat in the U.S. economy. Texas A&M University was the only public institution invited.

- d. Wheat 103: Will represent Texas A&M University at “Wheat 103” at the U.S. Capitol during February 13 – 15. 2019.
- e. Coordinated and chaired the joint McFadden Symposium/Winter Wheat Workers Workshop, San Antonio, TX April 17 – 20, 2016.
- f. Coordinated and directed a U.S. Department funded project in Tunisia Partnership in Higher Education, Research for development (R4D) and Transfer of Technology in the Field of Sustainable Soil Management between the Institution of Agricultural Research and Higher Education, Tunisia and Texas A&M University.
- g. Undergraduate student scholarship committee (2014)
- h. Represent the department on the Agricultural and Natural Resources Policy Internship (ANRP) panel (March 2013).
- i. Taught lectures and trained trainees at the International Maize and Wheat Improvement Center (CIMMYT; Cd. Obregon, Mexico; March 17 – 24th, 2013).
- j. Department Liaison with the International Center for Agricultural Research in the Dry Areas (ICARDA; December 2012).
- k. U.S. Wheat and Barley HWW-CP Proposals, Review Chair (2011 - present)
- l. Crop Science Departmental Awards Committee (2011 – present)
- m. Crop Science Departmental Curriculum Committee (2011 – present)
- n. Multi-state rust evaluation nursery, director (2008 – present)
- o. Represented the U.S. wheat industry in two tours to 4 countries in southeast Asia (2005) and three countries in Latin America (2008) to obtain critical input on U.S. wheat classes from overseas end-users
- p. Hosted a visiting scientist, Dr. Ali Abdul-Haleem, from the University of Banha, Egypt (2008)
- q. Hosted a visiting scientist from the University of Gezira, Sudan in 2011
- r. Co-chaired the Plant Breeding/Genetics Circle (2007 – present)
- s. Co-director of the AgriGenomics Lab (2010 – present)
- t. Acted as Incoming Vice President and Poster Chairman for Texas Plant Protection Association (2008)
- u. Acted as Vice President and incoming president for Texas Plant Protection Association (2009)
- v. Act as President for Texas Plant Protection Association (2010)
- w. Currently serve as Past President for Texas Plant Protection Association (2011)
- x. Member of the CSSA Crop Adaptation to Climate Change Position Paper Workgroup (2010 – present)
- y. Chaired the biennial National Eastern and Southern Soft Wheat Conference in Dallas in 2010
- z. Member of the Department Curriculum Committee
- aa. Acted as a member and Great Plains representative (hard winter and spring wheat area) in the U.S. Wheat Germplasm Committee (2005 – present)
- bb. Acted as a member of Texas Small Grains Advisory Committee (2008 - present)
- cc. Acted as a member of AgriLife Research Plant Release Committee (2008 - present)
- dd. Served as the Small Grains Liaison for the Soil and Crop Sciences Department (2007 – present)

- ee. Initiated international collaboration between the Soil and Crop Sciences Department and each of the International Center for Agricultural Research in the Dry Areas (ICARDA) and the International Maize and Wheat Improvement Center (CIMMYT) (2008 – present)
- ff. Represented TAMU at the Water Livelihood Initiative held at ICARDA (2009)
- gg. Collaborated with the Borlaug institute and presented the department capacity to delegates from several countries, kingdoms, and institutions (2007 – present)
- hh. Leading TAMU programs to rehabilitate the agricultural sectors of Southern Sudan and Darfur (2009 – present)
- ii. Presented information at field tours (2000 – present)
- jj. Presented information at commodity group meetings (2000 – present)
- kk. Answered grower questions directly, and served as technical resource person for extension personnel on small grains questions (2000 – present)
- ll. Provided consultation to students and faculty on the analysis of complex experimental designs (2007 – present)
- mm. Manager of the multi-state rust screening nursery at Castroville, TX (2007 – present)

Professional, scientific, and honor society activities

- a. Associate Editor, Journal of Plant Registrations (2011 – 2016)
- b. Associate Editor, Journal of Crop Improvement (2011 – Present)
- c. Continued active participation in the regional collaborative activities and co-organized the Hard Winter Wheat Breeders Field Day at Castroville Texas (2008)
- d. Attended the ASA annual meetings (1999 – present)
- e. Attended the International Oat Conference in Minneapolis, MN (2008)
- f. Chaired and attended the biennial National Eastern and Southern Soft Wheat Conference in Dallas in 2010
- g. Reviewed manuscripts for professional society (Crop Science and Agronomy Journal) and other international journals (2000 – present)
- h. Participated in the regional hard winter wheat testing program (2000 – present)
- i. Gave several radio and TV interviews on small grains breeding in Texas (2007 – 2008)
- j. Wrote reference letters for several current and former students pursuing job opportunities (2000 – present)

Honors and awards received

- a. 2019 – Alumni Award, Faculty of Agricultural and Food Sciences, American University of Beirut
- b. Regents Professor, 2019
- c. America Society of Agronomy Fellow, 2018
- d. Graduate of Cohort IV Advanced Leadership Program, Texas A&M (2016-2018)
- e. Texas A&M AgriLife Research Faculty Fellow, 2017
- f. Soil and Crop Sciences Department, Texas A&M - Teaching Award - 2017
- g. Texas A&M College of Agriculture and Life Sciences Dean's Award – International Impact, 2017

- h. Crop Sciences Society of America Fellow, 2017
- i. Texas A&M College of Agriculture and Life Sciences Dean's Award – Multidisciplinary Team 2015
- j. Texas A&M Technology Commercialization Team Innovation Award 2013
- k. Texas A&M Vice Chancellor's Team Award – 2013
- l. Soil and Crop Sciences Department, Texas A&M - Individual Achievement Research Award - 2013
- m. 2010 Recognized for outstanding service to Texas agriculture and to the Texas Plant Protection Association as President for Texas Plant Protection Association 2010
- n. 2005 – Wheat Quality Council “Best of Show” (awarded for the highest quality wheat entered into the 2005 Wheat Quality Council trials, Kansas City, Missouri)
- o. 2000 - Crop Science Society of America
- p. 2000 - Honorary society of Sigma Xi
- q. 2000 - American Society of Agronomy and Crop Science Society of America
- r. 1998 - Takumi Tsuchiya Graduate Achievement Award, Colorado State University
- s. 1995- 1998 - Graduate assistantship at Colorado State University (Ph.D.)
- t. 1992- 1994 - Royal Government of the Netherlands Scholarship (MS)
- u. 1989 - President, Agronomy Association, University of Gezira, Sudan
- v. 1988 - Secretary, Faculty of Agricultural Sciences Students' Organization, University of Gezira, Sudan