

Wenwei Xu

Corn Breeder and Professor, Texas A&M AgriLife Research
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Education:

B.S. in Agronomy, Gansu Agricultural University, China, 1982.

M.S. in Crop Genetics and Breeding, Chinese Academy of Agricultural Sciences, 1985.

Ph.D. in Genetics, University of Missouri-Columbia, 1992.

Professional Experiences:

2014-present, Professor, Texas A&M AgriLife Research (75%) and Texas Tech (25%).

2004-2014, Associate Professor, Texas A&M AgriLife Research (75%) and Texas Tech (25%).

1998-2004, Assistant Professor, Texas A&M AgriLife Research (75%) and Texas Tech (25%).

1996-1998, Market Development Manager-Asia, DEKALB Genetics Corporation.

1995-1996, Research Scientist, Texas Tech University.

1993-1995, Post-Doctoral Research Associate, Texas Tech University.

1992-1993, Postdoctoral Fellow, University of Missouri-Columbia.

1987-1993, Research Assistant, University of Missouri-Columbia.

1987-1988, Visiting Scientist, USDA-ARS and University of Missouri-Columbia.

1985-1987, Corn Researcher, Chinese Academy of Agricultural Sciences.

Teaching:

PSS3421-Fundamental Principles of Genetics

PSS6322-Advanced Plant Breeding

Intellectual Property:

Nine inbred lines released for public use: Tx202 and Tx203 in 2003, Tx204 and Tx205 in 2004; Tx206, Tx207, Tx208, Tx209, Tx210 in 2012.

Technology transfer: A total of 31 MTA have been signed with 10 seed companies for licensing the 9 publically released inbred lines *and the inbred lines for future public release*. New material evaluation agreements were signed with B-H Genetics, Trimble Genetics, and Seed Asia in 2014 and with 3MG Company in 2015.

One commercialization agreement with a US seed company for four inbred lines (not yet released for the public) in 2009 and with a Turkey seed company for two silage corn hybrids (parent lines not yet released for the public) in 2013.

Referred publications in last five years:

Wenwei Xu, Xu Guoliang, Li Shuhua, Yingen Xue, Cai Zhuo. 2011. Breeding maize hybrids for high silage yield and quality. *Journal of Maize Sciences*.19 (3):1-6.

Xinzhi Ni, Jeffrey P. Wilson, Michael D. Toews, G. David Buntin, Xin Li, Zhongren Lei, Kanglai He, Wenwei Xu, Xianchun Li, Alisa Huffaker, and Eric A. Schmelz. 2012. Evaluation of Spatial and Temporal Patterns of Insect Damage and Aflatoxin Level in the Pre-Harvest Corn Fields to Improve Management Tactics. *Insect Science* 00, 1–12, DOI 10.1111/j.1744-7917.2012.01531.x.

Xinzhi Ni, Wenwei Xu, Michael H. Blanco, and Jeffrey P. Wilson. 2012. Evaluation of Corn Germplasm Lines for Multiple Ear-Colonizing. *J. Econ. Entomol.* 105(4): 1457-1464. DOI: <http://dx.doi.org/10.1603/EC12115>.

Junping Chen, Wenwei Xu, Jeff Velten, Zhanguo Xin, and John Stout. 2012. Characterization of maize inbred lines for drought and heat tolerance. *Journal of Soil and Water Conservation* 2012 67(5):354-364; doi:10.2489/jswc.67.5.354

Genhua Niu, Wenwei Xu, Denise Rodriguez and Youping Sun. 2012. Growth and physiological responses of maize and sorghum genotypes to salt stress, *ISRN Agronomy Volume 2012, Article ID 145072*, 12 pages. doi:10.5402/2012/145072.

Xiao Dan Liu, Shu-Hua Li, Guo-liang Xu, Yingen Xue, Wenwei Xu*. 2012. Review of genetically modified maize. *Journal of Maize Science*. 20(6):1-8. (*corresponding author).

- Warburton, M.L., W. Paul Williams, G. L. Windham, S. C. Murray, W. Xu, L. K. Hawkins, and J. F. Duran. 2013. Phenotypic and genetic characterization of a maize association mapping panel for new sources of *Aspergillus flavus* and aflatoxin accumulation resistance. *Crop Science* 53(6): 2374-2383.
- J E C Teixeira, T Weldekidan, N de Leon, S Flint-Garcia, J B Holland, N Lauter, S C Murray, W Xu, D A Hessel, A E Kleintop, J A Hawk, A Hallauer and R J Wisser. 2014. Hallauer's Tusón: a decade of selection for tropical-to-temperate phenological adaptation in maize. *Heredity advance online publication*, November 5, 2014; doi:10.1038/hdy.2014.90.
- Charlene A. Farias, Michael J. Brewer, Darwin J. Anderson, Gary N. Odvody, Wenwei Xu and Mamoudou Sétamou. 2014. Native Maize Resistance to Corn Earworm, *Helicoverpa zea*, and Fall Armyworm, *Spodoptera frugiperda*, with Notes on Aflatoxin Content. Source: *Southwestern Entomologist*, 39(2):411-426. 2014. DOI: <http://dx.doi.org/10.3958/059.039.0303>.
- Shoulin Jiang, Zongchao Zhao, Junsheng Li, Jinglan He, Yingen Xue, Wenwei Xu, Limin Zhang, and Fajun Chen. 2014. Damage of Maize Borer and Maize Weevil on the Yield of Transgenic Phytase Maize. *Agronomy Journal* Vol. 107:1-8. Doi:10.2134/agronj14.0366.
- Xinzhi Ni, Wenwei Xu, Michael H. Blanco and W. Paul Williams. 2014. Evaluation of fall armyworm resistance in maize germplasm lines using visual leaf injury rating and predator survey. *Insect Science* 21:541-555. DOI 10.1111/1744-7917.12093.
- Xinzhi Ni, Zhongren Lei, Kanglai He, Xin Li, Xianchun Li and Wenwei Xu. 2014. Integrated pest management is the lucrative bridge connecting the ever emerging knowledge islands of genetics and ecology. *Insect Science* (2014) 00, 1–4, DOI 10.1111/1744-7917.12151.
- Marilyn L. Warburton, W. Paul Williams, Gary L. Windham, Seth C. Murray, Wenwei Xu, Leigh K. Hawkins and Jorge Franco Duran. 2013. Phenotypic and Genetic Characterization of a Maize Association Mapping Panel Developed for the Identification of New Sources of Resistance to *Aspergillus flavus* and Aflatoxin Accumulation. *Crop Science* 2013 53: 6: 2374-2383.
- Marilyn L. Warburton, Juliet D. Tang, Gary L. Windham, Leigh K. Hawkins, Seth C. Murray, Wenwei Xu, Debbie Boykin, Andy Perkins, and W. Paul Williams 2015. Genome-wide association mapping of *Aspergillus flavus* and aflatoxin accumulation resistance in maize. *Crop Science* 55 (<http://dx.doi.org/doi:10.2135/crosci2014.060424>).
- Hao, B. Q. Xue, T. H. Marek, K. E. Jessup, X. Hou, W. Xu, E. D. Bynum, and B. W. Bean. 2015. Soil water extraction, water use and grain yield in drought-tolerant maize in the Texas High Plains. *Agricultural Water management* 155: 11-21. Hao, B. Q. Xue, T. H. Marek, K. E. Jessup, J. Becker, X. Hou, W. Xu, E. D. Bynum, and B. W. Bean, P. D. Colaizzi, and T. A. Howell 2015. Water use and grain yield in drought-tolerant corn in the Texas High Plains. *Agronomy Journal* 107: 1922-1930.
- Hao, B. Q. Xue, T. H. Marek, K. E. Jessup, X. Hou, W. Xu, E. D. Bynum, and B. W. Bean. 2015. Radiation use efficiency, biomass production, and grain yield in two maize hybrids differing in drought tolerance. *Journal of Agronomy and Crop Science* (in press).
- Judy A. Tolk, Steven R. Evett, Wenwei Xu, Robert C. Schwartz. 2015. Constraints on water use efficiency of drought tolerant maize grown in a semi-arid environment. *Field Crop Research* (accepted).

Synergistic Activities:

- Member of U.S. Maize Crop Germplasm Committee, 2011 - present
- Technical Steering Group of USDA Germplasm Enhancement of Maize Project. 2003 – 2006 (1st term), 2007- 2009 (2nd term)
- Texas State Crop Testing Program Advisory Board. 2003 to present
- Editorial Board of *Journal of Maize Sciences*.
- Editorial Board of *Journal of Crop Science*.