

TEXAS A&M PLANT BREEDING BULLETIN

August 2019

**TEXAS A&M UNIVERSITY--EDUCATING AND DEVELOPING PLANT BREEDERS
WORLDWIDE TO ALLEVIATE HUNGER AND POVERTY THROUGH GENETIC
IMPROVEMENT OF PLANTS**

We are pleased to welcome Dr. Joshua Udall to the plant breeding group at Texas A&M. Josh recently assumed the position of Research Leader of the Crop Germplasm Research Unit of USDA ARS at College Station. Josh is responsible for the USDA Cotton Working Collection housed at College Station as well as a plethora of research projects. Dr. Udall brings a wealth of leadership and research experience to campus and will be a valuable addition to the plant breeding efforts at Texas A&M.

Dr. Joshua Udall grew up in Utah and attended Brigham Young University as an undergraduate. He completed a Master of Science degree at the University of Idaho in Plant Sciences in 1997 and his Ph.D. at the University of Wisconsin-Madison in 2003. His dissertation research focused on developing haploid maps of Brassica (canola) using RFLP markers. His first work in cotton was at Iowa State University in 2003 where he used three different types of custom microarrays to investigate gene expression bias of tetraploid cotton. In 2006, he moved to Brigham Young University where, in addition to pursuing his research on polyploidy, he developed detailed physical maps of cotton genomes using BioNano technology. Josh has most recently worked with large re-sequencing datasets of cotton to understand the domestication history of the plant and its untapped genetic diversity. Along with his Masters and Ph.D. students and post-

docs, Josh has authored more than 60 papers in major refereed journals with 31 of those since 2014. He was named as Outstanding Research Scientist at Brigham Young University in 2014, and was awarded the Cotton Incorporated's Cotton Biotechnology Award in 2014. Among his many other recognitions, Dr. Udall has been an invited speaker at numerous professional meetings during his career. Since 2012, Josh has been invited to speak at 15 conferences in the U.S., Scotland, New Zealand, Chile, and Canada.

Josh is an active member of the Genetics Society of America and the American Society of Plant Biologists.

Among Josh's passions are outdoor sporting activities and cotton.





We are pleased to have Dr. Josh Udall as a member of the plant breeding community at Texas A&M University.

Publications by Plant Breeding Faculty

Second Quarter, 2019

Da Silva: Renesh Bedre, Sonia Irigoyen, Patricia D. C. Schaker, Claudia B. Monterio-Vitorello, Jorge A. Da Silva, Kranthi K. Mandadi. 2019. Genome-wide Alternative Splicing in Landscapes Modulated by Biotrophic Sugarcane Smut Pathogen. *Scientific Reports* 9:8876.

Murray: Nadia Shakoore, Daniel Northup, Seth Murray, Todd C. Mockler. 2019. Big Data Driven Agriculture: Big Data Analytics in Plant Breeding, Genomics, and the Use of Remote Sensing Technologies to Advance Crop Productivity. *The Plant Phenome Journal* 2:180009.

Rooney: A. R. Cabral, C. Waters, H. L. Laird, L. C. Cavitt, R. K. Miller, W. L. Rooney, C. Z. Alvarado, J. M. Awika and C. R. Kerth. 2019. Sorghum Bran as an Antioxidant in Pork and Poultry Products. *Meat and Muscle Biology* 2(2): 83.

Rooney: Nana Baah Appiah-Nkansah, Jun Li, William Rooney, Donghai Wang. 2019. A review of sweet sorghum as a viable renewable bioenergy crop and its techno-economic analysis. *Renewable Energy* <https://doi.org/10.1016/j.renene.2019.05.066>.

Smith: Corey N. Thompson, Bralio R. Hendon, Deepika Mishra, Jacob M. Rieff, Cindy C. Lowery, Kimberly C. Lambert, Travis W. Witt, Steven J. Oswalt, Efrem Bechere, C. Wayne Smith, Roy G. Cantrell, Brendan R. Kelly, Robert K. Imel-Vise, Kent D. Chapman, Michael K. Dowd, Dick L. Auld. 2019. Cotton (*Gossypium hirsutum* L.) mutants with reduced levels of palmitic acid (C16:0) in seed lipids. *Euphytica* 215:112

Stelly: Kevin V. Pixley, Jose B. Falck-Zepeda, Ken E. Giller, Leland L. Glenna, Fred Gould, Carol A. Mallory-Smith, David M. Stelly, and C. Neal Stewart. 2019. Genome Editing, Gene Drives, and Synthetic Biology: Will They Contribute to Disease-Resistant Crops, and Who Will Benefit?. *Annual Review of Phytopathology* 57.

Meetings of Meetings of Interest

National Association of Plant

Breeders, NAPB will hold their annual meeting at the University of Georgia, August 25-29, 2019. More information will be available soon at <https://www.plantbreeding.org>.

American Society of Agronomy-Crop Science Society of America-Soil

Science Society of America will hold their annual meeting November 10 – 13, 2019 in San Antonio, Texas. More information available at <https://www.acsmeetings.org/>.

Distance Plant Breeding at Texas Distance Plant Breeding at Texas

A&M – Continuing Education

For more information visit <https://scsdistance.tamu.edu/> or contact
LeAnn Hague, Distance Education Coordinator in Soil and Crop
Sciences at leann.hague@tamu.edu or (979) 845-6148.

Distance Plant Breeding at Texas A&M Graduate Degrees

M.S. and Ph.D. degree programs at Texas A&M.

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for details.

Please direct comments concerning this bulletin to Wayne Smith,
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