

Jinfa Zhang

Department of Plant and Environmental Sciences
College of Agricultural, Consumer and Environmental Sciences
New Mexico State University (NMSU), Las Cruces, NM 88003
Phone: (575) 646-3438
Fax: (575) 646-6041
Email: jinzhang@nmsu.edu

EDUCATIONAL BACKGROUND

- 1999 Ph. D., Plant Genetics and Molecular Biology, University of Arkansas, Fayetteville, AR, USA
Dissertation: Mendelian and molecular genetics of cytoplasmic-nuclear interactions in cotton
- 1993 Doctor of Agronomy, Plant Genetics and Breeding, Central China Agricultural University, Wuhan, China
Dissertation: Transferring and utilization of genes from *Gossypium barbadense* to *G. hirsutum*
- 1985 Master of Agronomy, Plant Genetics and Breeding, Central China Agricultural University, Wuhan, China
Thesis: Genetic effects of nectarilessness and frego bract on agronomic traits and pink bollworm resistance in cotton
- 1981 Bachelor of Agronomy, Agronomy, Central China Agricultural College at Jinzhou, China

EMPLOYMENT HISTORY

- July 2014 - present Professor, Cotton Breeding, Genetics and Genomics
New Mexico State University
- July 2007- June 2014 Associate Professor, Cotton Breeding, Genetics and Genomics
New Mexico State University
- Sept. 2002- June 2007 Assistant Professor, Cotton Breeding, Genetics and Genomics
New Mexico State University
- Aug. 2001- Sept. 2002 Molecular Cotton Breeder, Molecular Breeding in Cotton
Monsanto Company
- July 2000- Aug. 2001 Postdoctoral Research Associate, Cloning of a Restorer Gene
McGill University
- July 1999- July 2000 Postdoctoral Research Associate, Molecular Analysis of Cotton CMS
University of Arkansas
- July 1995- May 1999 Senior Research Assistant, Molecular Analysis of CMS
University of Arkansas
- Jan. 1992- Dec. 1998 Associate Professor/Program Director/Section Director
Cotton Breeding and Genetics/National Key Lab in Crop Improvement
Central China Agricultural University, China
- Jan. 1985- Dec. 1991 Assistant Professor, Cotton Breeding and Genetics
Central China Agricultural University, China

PROFESSIONAL EXPERIENCES

Teaching

Currently at New Mexico State University (2003-present)

AGRO 303V- Genetics and Society, undergraduate level

GENE 305L- Genetic Techniques, undergraduate level

AGRO 516- Molecular Analysis of Complex Traits, graduate level

Previously at New Mexico State University (2004-2010)

AGRO/HORT 100- Introduction to Plant Science, undergraduate level

GENE 440- Genetics Seminar, undergraduate level

AGRO 483- Sustainable Crop Production, undergraduate level

Previously at Central China Agricultural University (1985-1995)

Field Experimental Design and Statistical Analysis, undergraduate level

Crop Breeding, undergraduate level

Reproductive Genetics of Plants, undergraduate level

Biometrical Genetics, graduate level

Student Advising/Mentoring

Student Advising/Mentoring Undergraduate students: 50 at NMSU since 2002

Summer students from the New Mexico Alliance for Minority Participation Program: 17

Major advisor: M.S.- 8, Ph.D.- 10, Postdoc- 5, and Visiting Scientists- 25 from 8 countries

Co-advisor or guest advising in China: M.S.- 10, and Ph.D.- 6

Graduate student advisory committee: 26 at NMSU, and 5 in China

Research

Research focuses on cotton breeding and genetics with extensive applications of genomic tools and approaches. The current research areas include breeding, genetics and genomics for high yield and high fiber quality cotton with resistance to drought, salt, Verticillium wilt, Fusarium wilt, bacterial blight, leaf spot, rust, and thrips. Research program also include Upland × Pima introgression breeding and genetics, breeding for glandless cotton, cytoplasmic male sterility (CMS) and semigamy.

Germplasm Releases & Registrations: 10 cultivars; 22 germplasm lines; & 1 genetic population.

Publications: 182 ref. papers; 98 ref. papers in Chinese; 53 proc. papers; 87 proc. abs.; & 14 AES bull.

AWARDS

Cotton Genetics Research Award, National Cotton Council of America, USA, 2020

Team Award, College of Agricultural, Consumer and Environmental Sciences, NMSU, 2017

Award, 2015 CSSA Editor's Citation for Excellence, Crop Science Society of America, 2016

Outstanding Graduate Student Award in Cotton Research in Arkansas, 1999

3rd-Place Award, Graduate student competition, Poster, Beltwide Cotton Conferences, 1998

2nd-Place Award, Scientific Achievement, Ministry of Agriculture of China, 1994

3rd-Place Award, Scientific Achievement, Ministry of Science & Technology of China, 1994
Outstanding Teaching Award, Huazhong Agricultural University, 1992
Outstanding Teaching Award, Huazhong Agricultural University, 1991

Graduate student awards under my advisement

3rd-Place Award, Graduate Student Competition, Beltwide Cotton Conferences, 2021
1st-Place Award, Graduate Student Competition, Beltwide Cotton Conferences, 2013
3rd-Place Award, Graduate Student Competition, Beltwide Cotton Conferences, 2011
2nd-Place Award, Graduate Student Competition, Beltwide Cotton Conferences, 2006
Albert K. Dobrenz Award, Western Society of Crop Science, 2007
Outstanding Graduate Research Assistant Award, NMSU Molecular Biology Graduate Program, 2015
Outstanding Graduate Teaching Assistant Award, NMSU Molecular Biology Graduate Program, 2014
Best Paper Award, Graduate Students, Department of Plant and Environmental Sciences, 2015
Best Paper Award, Graduate Students, Department of Plant and Environmental Sciences, 2014
Outstanding Graduate Student Award, NMSU Molecular Biology Graduate Program, 2012

SERVICES

Professional

Panelist, Plant Genome Research Program, National Science Foundation (NSF), USA, 2011
Panelist, Plant Breeding Program, United States of Department of Agriculture (USDA), 2013
Panelist, USDA-ARS Research Programs, 2010, 2014
Panelist, National Science Foundation of China (NSFC), 2015, 2018
Expert, Chunhui Plan- Agriculture in Xinjiang, Ministry of Education of China, Aug. 12-25, 2005

Editorial Board, Scientific Reports (2018 impact factor= 4.011), 2016-
Editorial Board, International Journal of Genomics (2018 impact factor= 2.303), 2011- 2020
Editorial Board, Journal of Crop Improvement, 2016-
Editorial Board, Journal of Cotton Research, Chinese Academy of Agricultural Sciences, 2018-
Editorial Board, Acta Agronomic Sinica (in Chinese), China Crop Science Society, 2014- present
Editorial Board, Cotton Science (in Chinese), China Cotton Society, 2003- present
Editor, Molecular Genetics and Genomics (2018 impact factor= 2.879), 2013- present
Associate Editor, BMC Genomics (2018 impact factor= 3.501), 2012- present
Associate Editor, BMC Genetics (2018 impact factor= 2.547), 2016-
Associate Editor, The Crop Journal (2018 impact factor= 3.179), 2014- present
Associate Editor, Euphytica (2018 impact factor= 1.527), 2016-
Associate Editor, PLoS One (2018 impact factor= 2.776), 2011- present
Associate Editor, Journal of Cotton Science, National Cotton Council, USA, 2011- present

Reviewer, NSF, USDA, NSFC, Yangtze River Scholar Program, & 1000 Talent Plan
Reviewer, 20-30 international scientific journals annually

Member, Crop Science Society of America
Member, Agronomy Society of America
Member, International Cotton Genome Initiative

Guest Professor, Institute of Cotton Research, Chinese Academy of Agric. Sci. (CAAS), China, 2003
Guest Professor, Southwest University, Chongqing, China, 2012
Guest Professor, Xinjiang Agricultural University, 2013
Invited Expert, FAO-IAEA, Institute of Crop Science of CAAS, China Agricultural University,
Central China Agricultural University, Agricultural University of Hebei, Nanjing Agricultural
University, Northwest A & F University, Shanghai Jiaotong University, Zhejiang Agricultural
Academy of Sciences, Hebei Agricultural Academy of Sciences, Xinjiang Academy of
Agricultural and Reclamation Sciences, and Jinzhou Agricultural Academy of Sciences
Vice Secretary-in-General, Hubei Cotton Association, 1992-1995
Vice Chairman, Young Scientist Association, Huazhong Agricultural University, 1992-1995

At New Mexico State University

Senator, Faculty Senate, Aug. 2012- May 2015
Member, Leadership Team, Cotton Task Force, New Mexico, 2009-2012
Member, Crop Variety Release Committee, 2003- present
Chair, Department Scholarship Committee, 2018
Chair, Department Awards Committee, 2014- 2015
Chair, Department Graduate Studies Committee, 2012-2013
Chair, Department Faculty Promotion and Tenure Committee, 2020-2022
Chair, Search Committee, Chile Pepper Genetics and Breeding faculty position, 2019-2020
Chair, Search Committee, Sustainable Crop Production faculty position, 2007-2008
Member, Department Graduate Studies Committee, 2004-2005
Member, Search Committee, Crop Physiology faculty position in Clovis, 2005
Member, Department Undergraduate Student Recruitment and Retention Committee, 2008-2011
Member, Department Curriculum Committee, 2003-2010

National

Member, National Cotton Variety Testing Committee
Member, West Regional Cotton Variety Testing Committee
Member, National Pima Variety Testing Committee
Member, Regional Breeders Testing Network

COTTON CULTIVAR AND GERMPLASM RELEASES

A. Cultivar releases via New Mexico Agricultural Experiment Station with registrations through Crop Science Society of America

1. Acala 1517-99W (Zhang et al., 2008)
2. Acala 1517-08 (Zhang et al., 2011)
3. Acala 1517-09R (Zhang et al., 2011)
4. NuMex COT 15 GLS (Zhang et al., 2016)
5. Acala 1517-16 B2RF (Zhang et al., 2016)
6. NuMex COT 17 GLS (Zhang et al., 2018)
7. Acala 1517-18 GLS (Zhang et al., 2018)
8. NuMex COT 19 (Zhang, 2018)
9. Acala 1517-20 (Zhang, 2019)
10. Acala 1517-21 (Zhang, 2019)
11. Acala 1517-22 (Zhang et al., to be submitted)
12. Pima NuMex 232 (Zhang et al., to be submitted)

B. Germplasm releases or co-releases with registrations through Crop Science Society of America

1. NM 010094
2. NM 010113
3. NM 010122
4. NM 010462
5. NM 010460
6. NM 010454
7. NM 010341
8. NM 010311
9. NM 010504
10. NM 990649 (Reg. No. GP-1048, PI 688428)
11. NM 990764 (Reg. No. GP-1049, PI 688427)
12. NM 990815 (Reg. No. GP-1050, PI 688429)
13. NM 990827 (Reg. No. GP-1051, PI 688430)
14. NM 970123 (Reg. No. GP-1045, PI 688432)
15. NM 990813 (Reg. No. GP-1046, PI 678373)
16. NM W1218 (Reg. No. GP-1047, PI 678372)
17. SJ-07P-FR01 (Reg. No. GP-910, PI 654065)
18. SJ-07P-FR02 (Reg. No. GP-911, PI 654066)
19. SJ-07P-FR03 (Reg. No. GP-912, PI 654067)
20. SJ-07P-FR04 (Reg. No. GP-913, PI 654068)
21. PSI 113 (Reg. No. GP-916, PI 655939)
22. PSI 425 (Reg. No. GP-917, PI 655940)

PUBLICATIONS

A. Refereed publications

- **JIF: Journal impact factor (2019/2020)**
- **Graduate students under my supervision are underlined**
- *** Postdocs or research specialists under my supervision**
- **** Corresponding author**

2021 (17 journal articles)

- A182. ****Zhang Jinfa**. 2021. Registration of a high-yielding introgression Upland cotton cultivar, 'NuMex COT 19'. J. Plant Reg. (Accepted, Mar. 21, 2019) (JIF: 0.59)
- A181. ****Zhang Jinfa**, Roy G. Cantrell, and R. Flynn. 2020. Registration of nine Acala cotton germplasm lines with improved fiber quality in Upland cotton (*Gossypium hirsutum* L.). J. Plant Reg. (accepted, Feb. 11, 2019) (JIF: 0.59)
- A180. *Abdelraheem Abdelraheem, Yi Zhu, Jane K. Dever, Terry A. Wheeler, Tom Wedegaertner, Kater Hake, and **Jinfa Zhang****. 2021. Diallel analysis of resistance to Fusarium wilt (*Fusarium oxysporum* f. sp. *vasinfectum*) race 4 in American Pima cotton (*Gossypium barbadense*). Crop Sci. (Major revision, May 19, 2021)
- A179. Elassbli H., Y. Zhu, A. Abdelraheem*, T. A. Wheeler, T. Wedegaertner, and **Jinfa Zhang****. 2021. Genetic analysis of resistance to bacterial blight race 18 in US upland cotton and *B₁₂*-linked marker analysis. Crop Sci. (Accepted, May 19, 2021)
- A178. *Abdelraheem Abdelraheem, Vasu Kuraparthi, Lori Hinze, David Stelly, Tom Wedegaertner, and **Jinfa Zhang****. 2021. Genome-wide association study for tolerance to drought and salt tolerance and resistance to thrips at the seedling growth stage in US Upland cotton. Ind. Crop Prod. 169: 113645 (JIF: 4.244)
- A177. Song Jikun, Wenfeng Pei, Jianjiang Ma, Shuxian Yang, Bing Jia, Yingying Bian, Yue Xin, Luyao Wu, Xinshan Zang, Yanying Qu, **Jinfa Zhang**, Man Wu, and Jiwen Yu. 2021. Genome-wide association study of micronaire using a natural population of representative upland cotton (*Gossypium hirsutum* L.). J. Cotton Res. 4: 14
- A176. Yang Shuxia, Li Huang, Jikun Song, Lisen Liu, Yingying Bian, Bing Jia, Luyao Wu, Yue Xin, Man Wu, **Jinfa Zhang**, Jiwen Yu, and Xinshan Zang. 2021. Genome-wide analysis of DA1-like genes in *Gossypium* and functional characterization of *GhDA1-1A* controlling seed size. Front. Plant Sci. 12: 647091 (JIF: 4.402)
- A175. ****Zhang Jinfa**, Abdelraheem Abdelraheem*, Yi Zhu, Terry A. Wheeler, Jane K. Dever, Jianjiang Ma, Jiwen Yu, Yuzhen Shi, Youlu Yuan, and Tom Wedegaertner. 2021. Dynamic responses to Fusarium wilt (*Fusarium oxysporum* f. sp. *vasinfectum*) race 4 in two introgressed populations of Upland cotton (*Gossypium hirsutum*). Euphytica 217: 98 (JIF: 1.614)
- A174. Zeng Linghe, Jixiang Wu, Fred Bourland, B. T. Campbell, Jane Dever, Steve Hague, Gerald O. Myers, Tyson Brant Raper, C. Wayne, Smith, and **Jinfa Zhang**. 2021. Comparative study of transgenic and non-transgenic cotton. Crop Sci. First published: 06 April 2021. <https://doi.org/10.1002/csc2.20522> (JIF: 1.878)
- A173. Elassbli Hanan, A. Abdelraheem*, Yi Zhu, Zonghua Teng, Terry A Wheeler, Vasu Kuraparthi, Lori Hinze, David M Stelly, Tom Wedegaertner, and **Jinfa Zhang****. 2021. A genome-wide association study of bacterial blight resistance in US Upland cotton germplasm. Mol. Genet. Genomics. Published online, 29 March 2021. <https://doi.org/10.1007/s00438-021-01779-> (JIF: 2.797)
- A172. Zhu Yi, Abdelraheem Abdelraheem*, Phillip Lujan, John Idowu, Patrick Sullivan, Robert Nichols, Tom Wedegaertner, and **Jinfa Zhang****. 2021. Detection and characterization of Fusarium wilt (*Fusarium oxysporum* f. sp. *vasinfectum*) race 4 causing Fusarium wilt of cotton seedlings in New Mexico, USA. Plant Dis. Published Online: 5 Feb 2021. <https://doi.org/10.1094/PDIS-10-20-2174-RE> (JIF: 3.583)
- A171. Zhu Yi, Abdelraheem Abdelraheem*, Terry A. Wheeler, Jane K. Dever, Tom Wedegaertner, Kater D. Hake, and **Jinfa Zhang****. 2021. Interactions between cotton genotypes and Fusarium wilt race 4 isolates from Texas and

- resistance evaluation in cotton. *Crop Sci.* First published: 08 February 2021. <https://doi.org/10.1002/csc2.20469> (JIF: 1.878)
- A170. Zhu Y., A. Abdelraheem*, Robert L Nichols, Tom Wedegaertner, and **Jinfa Zhang****. 2021. First report of *Fusarium fujikuroi* causing wilt on pima cotton (*Gossypium barbadense*) seedlings in New Mexico, USA. *Plant Dis.* 105: 228 (JIF: 3.583)
- A169. ****Zhang Jinfa**, Abdelraheem Abdelraheem*, Yi Zhu, Terry A. Wheeler, Jane K. Dever, Robert Nichols, and Tom Wedegaertner. 2021. Importance of temperature in evaluating cotton for resistance to Fusarium wilt caused by *Fusarium oxysporum* f. sp. *vasinfectum* race 4. *Crop Sci.* First Published: Jan. 5, 2021. <https://doi.org/10.1002/csc2.20446> (JIF: 1.878)
- A168. *Zhang Sujun, Zhenxing Jiang, Jie Chen, Zongfu Han, Jina Chi, Xihua Li, Jiwen Yu, Chaozhu Xing, Mingzhou Song, Jianyong Wu, Feng Liu, Xiangyun Zhang, **Jinfa Zhang****, and Jianhong Zhang**. 2021. The cellulose synthase (CesA) gene family in four *Gossypium* species: phylogenetics, sequence variation, and gene expression in relation to fiber quality in Upland cotton. *Mol. Genet. Genomics* 296: 355-368 (JIF: 2.797)
- A167. Elassbli H., A. Abdelraheem*, Y. Zhu, Z. Teng, S. Sanogo, T. A. Wheeler, T. Wedegaertner, and **Jinfa Zhang**. 2021. Evaluation and analysis of commercial cultivars and elite breeding lines for resistance to the bacterial blight pathogen race 18 in cotton. *Euphytica* 217: 21 (JIF: 1.614)
- A166. *Abdelraheem A., Gregory N. Thyssen, David D. Fang, Johnie N. Jenkins, Jack C. McCarty Jr., Tom Wedegaertner, and **Jinfa Zhang****. 2021. GWAS reveals consistent QTL for drought and salt tolerance in a MAGIC population of 550 lines derived from intermating of eleven Upland cotton (*Gossypium hirsutum*) parents. *Mol. Genet. Genomics* 296: 119-129 (JIF: 2.797)

2020 (14 journal articles)

- A165. ****Zhang Jinfa**. 2020. Registration of ‘Acala 1517-21’ cotton cultivar (*Gossypium hirsutum* L.). *J. Plant Reg.* 14: 273-280 (JIF: 0.59)
- A164. ****Zhang Jinfa**. 2020. Registration of upland cotton cultivar ‘Acala 1517-20’ resistant to Fusarium wilt race 4. *J. Plant Reg.* 14: 10-18 (JIF: 0.59)
- A163. ****Zhang Jinfa**, Omololu J. Idowu, and Tom Wedegaertner. 2020. Registration of glandless ‘NuMex COT 17 GLS’ upland cotton cultivar with Fusarium wilt race 4 resistance. *J. Plant Reg.* 14: 1-9 (JIF: 0.59)
- A162. ****Zhang Jinfa**, Abdelraheem Abdelraheem*, Yi Zhu, Terry A. Wheeler, Jane K. Dever, Heather Elkins-Arce, Robert Nichols, and Tom Wedegaertner. 2020. Pedigree selection under field conditions within Acala 1517-08 and its glandless derivatives for development of cotton resistant to Fusarium wilt caused by *Fusarium oxysporum* f. sp. *vasinfectum* race 4. *Euphytica* 216: 155 (JIF: 1.614)
- A161. ****Zhang Jinfa**, F. Bourland, T. A. Wheeler, and T. Wallace. 2020. Bacterial blight resistance in cotton: genetic basis and molecular mapping. *Euphytica* 216: 111 (JIF: 1.614)
- A160. ****Zhang Jinfa**, Abdelraheem Abdelraheem*, Yi Zhu, Terry A. Wheeler, Jane K. Dever, James Frelichowski, Janna Love, Mauricio Ulloa, Johnie N. Jenkins, Jack C. McCarty Jr., Robert Nichols, and Tom Wedegaertner. 2020. Assessing genetic variation for Fusarium wilt race 4 resistance in tetraploid cotton by screening over three thousand germplasm lines under greenhouse or controlled conditions. *Euphytica* 216: 108 (JIF: 1.614)
- A159. ****Zhang Jinfa**, A. Abdelraheem*, Gregory N. Thyssen, David D. Fang, Johnie N. Jenkins, Jack C. McCarty Jr, and Tom Wedegaertner. 2020. Evaluation and genome-wide association study of Verticillium wilt resistance in a MAGIC population derived from intermating of eleven Upland cotton (*Gossypium hirsutum*) parents. *Euphytica* 216: 9 (JIF: 1.614)
- A158. Zhu Y., P. Lujan, A. Abdelraheem*, T. Wedegaertner, R. Nichols, **Jinfa Zhang**** and S. Sanogo**. 2020. First report of *Fusarium oxysporum* f. sp. *vasinfectum* (FOV) race 4 causing wilt in cotton (*Gossypium* L.) in New Mexico, USA. *Plant Dis.* 104: 588 (JIF: 3.583)

- A157. *Abdelraheem A., Hanan Ellassbli, Yi Zhu, Vasu Kuraparth, Lori Hinze, David Stelly, Tom Wedegaertner, and **Jinfa Zhang****. 2020. A genome-wide association study uncovers consistent quantitative trait loci for resistance to Verticillium wilt and Fusarium wilt in the U.S. Upland cotton. *Theor. Appl. Genet.* 133: 563-577 (JIF: 4.439)
- A156. *Abdelraheem A., N. Adams, and **Jinfa Zhang****. 2020. Genetic variation of drought tolerance and effects of drought on agronomic and fiber quality in an introgressed backcross inbred line population of upland cotton under field conditions. *Field Crops Res.* 254: 107850 (JIF: 4.308)
- A155. *Abdelraheem A., David Fang, Jane Dever, and **Jinfa Zhang****. 2020. QTL analysis of agronomic, fiber quality, and abiotic stress tolerance traits in a recombinant inbred population of Pima Cotton (*Gossypium barbadense* L.). *Crop Sci.* 60: 1823-1843 (JIF: 1.878)
- A154. Cui Yupeng, Ying Su, Junjuan Wang, Bing Jia, Man Wu, Wenfeng Pei, **Jinfa Zhang**, and Jiwen Yu. 2020. Genome-wide characterization and analysis of CIPK gene family in two cultivated allopolyploid cotton species: sequence variation, association with seed oil content and the role of *CIPK6*. *Int. J. Mol. Sci.* 21: 863. (JIF: 4.556)
- A153. *Han Z. F., Yuxiang Qin, Xihua Li, Jiwen Yu, Ruzhong Li, Chaozhu Xing, Mingzhou Song, Jianyong Wu, and **Jinfa Zhang****. 2020. A genome-wide analysis of pentatricopeptide repeat (PPR) protein-encoding genes in *Gossypium* species with an emphasis on their expression in floral buds, ovules and fibers in Upland cotton. *Mol. Genet. Genomics* 295: 55-66 (JIF: 2.797)
- A152. *Shi Yuzhen, Aiying Liu, Junwen Li, **Jinfa Zhang**, Shaoqi Li, Jinfeng Zhang, Liujun Ma, Rui He, Weiwu Song, Lixue Guo, Quanwei Lu, Xianghui Xiao, Wangkui Gong, Juwu Gong, Qun Ge, Haihong Shang, Xiaoying Deng, Jingtao Pan, and Youlu Yuan. 2019. Examining two sets of introgression lines across multiple environments reveals background-independent and stably expressed quantitative trait loci of fiber quality in cotton. *Theor. Appl. Genet.* 133: 2075-2093 (JIF: 4.439)

2019 (24 journal articles)

- A151. ****Zhang Jinfa**, Abdelreheem Abdelraheem, and Robert Flynn. 2019. Genetic gains of Acala 1517 cotton since 1926. *Crop Sci.* 59: 1052-1061 (JIF: 1.644)
- A150. ****Zhang Jinfa**, A. Abdelraheem, and J.M. Stewart. 2019. A Comparative analysis of cytoplasmic effects on lint yield and fiber quality between CMS-D2 and CMS-D8 systems in Upland cotton. *Crop Sci.* 59: 624-631 (JIF: 1.644)
- A149. ****Zhang Jinfa** and S. E. Hughs. 2019. Accuracy, precision and harvesting efficiency of a cotton plot picker installed with an automatic weighing system in a cotton breeding program. *J. Cotton Sci.* 23: 59-65
- A148. ****Zhang Jinfa**, A. Abdelraheem, and Tom Wedegaertner. 2019. Tolerance of commercial Upland (*Gossypium hirsutum*) and Pima (*G. barbadense*) cotton cultivars, advanced breeding lines and glandless cotton to halosulfuron (Sanda) herbicide under field conditions. *Euphytica* 215: 3 (JIF: 1.527)
- A147. ****Zhang Jinfa**, A. Abdelraheem, and Tom Wedegaertner. 2019. Genetic variation of waterlogging tolerance in Pima (*Gossypium barbadense*) cotton and glanded and glandless Upland cotton (*Gossypium hirsutum*) under field conditions. *Ind. Crops Prod.* 129: 169-174 (JIF: 4.191)
- A146. ****Zhang Jinfa**, R. G. Cantrell and S. E. Hughs. 2019. Registration of four Acala cotton germplasm lines with improved fiber strength in Upland cotton (*Gossypium hirsutum* L.). *J. Plant Reg.* 13: 74-76 (JIF: 0.692)
- A145. ****Zhang Jinfa**, Roy G. Cantrell, Sidney E. Hughs, and Don C. Jones. 2019. Registration of NM 970123, NM 990813, and NM W1218 germplasm lines of Upland cotton (*Gossypium hirsutum* L.). *J. Plant Reg.* 13: 68-73 (JIF: 0.692)
- A144. ****Zhang Jinfa**, Tom Wedegaertner, Omololu J. Idowu, Soum Sanogo, Robert Flynn, and Sidney E. Hughs, and Don C. Jones. 2019. Registration of a glandless 'Acala 1517-18 GLS' cotton. *J. Plant Reg.* 13: 12-18 (JIF: 0.692)
- A143. Zeng Linghe, Deborah L. Boykin, **Jinfa Zhang**, Efreem Bechere, Jane K. Dever, B. Todd Campbell, Tyson B. Raper, Calvin Meeks, Wayne Smith, Gerald O. Myers, and Fred M. Bourland. 2019. Analysis of Testing Locations in Regional High-Quality Tests for Cotton Fiber Quality Traits. *J. Cotton Sci.* 23: 284-291.

- A142. Zhu Yi, A. Abdelraheem, Tom Wedegaertner, R. Nichols, Soum Sanogo, and **Jinfa Zhang****. 2019. First report of *Fusarium solani* causing wilt in Pima cotton (*Gossypium* L.) in New Mexico, USA. *Plant Dis.* 103: 3279 (JIF: 3.583)
- A141. Zhu Yi, A. Abdelraheem, Soum Sanogo, Tom Wedegaertner, R. Nichols, and **Jinfa Zhang****. 2019. First report of *Fusarium proliferatum* causing wilt in cotton (*Gossypium* L.) in New Mexico, USA. *Plant Dis.* 103: 2679 (JIF: 3.583)
- A140. Zhu Y., Phillip Lujan, Srijana Dura, Robert Steiner, **Jinfa Zhang**, and S. Sanogo. 2019. Etiology of Alternaria leaf spot in cotton in Southern New Mexico. *Plant Dis.* 103: 1595–1604 (JIF: 3.583)
- A139. Abdelraheem A., N. Esmaeili, Mary O’Connell, and **Jinfa Zhang****. 2019. Progress and perspective on drought and salt stress tolerance in cotton. *Ind. Crops Prod.* 130: 118–129 (JIF: 4.191)
- A138. Zang Xinshan, Xiaoli Geng, Lei Ma, Yanhui Geng, Nuohan Wang, Guoyuan Liu, Jianjiang Ma, Dan Li, Yupeng Cui, Wenfeng Pei, Man Wu, Xingli Li, **Jinfa Zhang**, and Jiwen Yu. 2019. A genome-wide analysis of the phospholipid: diacylglycerol acyltransferase gene family in *Gossypium*. *BMC Genomics* 20: 402 (JIF: 3.501)
- A137. Wu Man, Longyun Li, Guoyuan Liu, Xihua Li, Wenfeng Pei, Xingli Li, **Jinfa Zhang**, Shuxun Yu, and Jiwen Yu. 2019. Differentially expressed genes between two groups of backcross inbred lines differing in fiber length developed from Upland x Pima cotton. *Mol. Biol. Rep.* 46: 1199-1212 (JIF: 2.107)
- A136. Wang Nuohan, Qiang Ma, Jianjiang Ma, Wenfeng Pei, Guoyuan Liu, Yupeng Cui, Man Wu, Xinshan Zang, **Jinfa Zhang**, Shuxun Yu, Lingjian Ma, Jiwen Yu. 2019. A comparative genome-wide analysis of the R2R3-MYB gene family among four *Gossypium* species and their sequence variation and association with fiber quality traits in an interspecific *G. hirsutum* x *G. barbadense* population. *Front. Genet.* 10: 741 (JIF: 3.517)
- A135. Shi Yuzhen, Aiyang Liu, Junwen Li, **Jinfa Zhang**, Baocai Zhang, Ruihua Ge, Qun Ge, Jamshed Muhammad, Quanwei Lu, Shaoqi Li, Xianghui Xiao, Juwu Gong, Wankui Gong, Haihong Shang, Xiaoying Deng, Jingtao Pan, and Youlu Yuan. 2019. Dissecting the genetic basis of fiber quality and yield traits in interspecific backcross populations of *Gossypium hirsutum* × *Gossypium barbadense*. *Mol. Genet. Genomics* 294: 1385-1402 (JIF: 2.879)
- A134. Ma Jianjiang, Wenfeng Pei, Qifeng Ma, Yanhui Geng, Guoyuan Liu, Ji Liu, Yupeng Cui, Xia Zhang, Man Wu, Xingli Li, Dan Li, Xinshan Zang, Jikun Song, Shurong Tang, **Jinfa Zhang**, Shuxun Yu, and Jiwen Yu. 2019. QTL mapping for plant height based on a backcross inbred line population derived from *Gossypium hirsutum* × *Gossypium barbadense* and GhPIN3, a candidate gene for a stable QTL, qPH-Dt1-1, for plant height in cotton. *Theor. Appl. Genet.* 132: 2663-2676 (JIF: 3.926)
- A133. Ma Jianjiang Ji Liu, Wenfeng Pei, Qifeng Ma, Nuohan Wang, Xia Zhang, Yupeng Cui, Dan Li, Guoyuan Liu, Man Wu, Xinshan Zang, Jikun Song, **Jinfa Zhang**, Shuxun Yu, and Jiwen Yu. 2019. Genome-wide association study of the oil content in upland cotton (*Gossypium hirsutum* L.) and identification of *GhPRXR1*, a candidate gene for a stable QTLqOC-Dt5-1. *Plant Sci.* 286: 89-97 (JIF: 3.785)
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C. Non-refereed publications in proceedings

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C53. **Zhang Jinfa**, Abdelraheem Abdelraheem, Yi Zhu, Terry Wheeler, Robert Nicholas and T. Wedegaertner. 2020. Greenhouse screening of cotton for Fusarium wilt race 4 resistance in New Mexico. *Proc. Beltwide Cotton Conf.* p85-90

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2018

C51. **Zhang J.F.**, J. Idowu, R. Flynn, and T. Wedegaertner. 2018. Progress in breeding for glandless cotton in New Mexico. *Proc. Beltwide Cotton Conf.* p566-572

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on cotton growth and yield in New Mexico. Proc. Beltwide Cotton Conf. p79-82

- C49. John Idowu, **Jinfa Zhang**, Jane Pierce, Mohammed Omer, and Tom Wedegaertner. 2018. Impacts of potassium fertilization on new glandless cotton cultivars developed for New Mexico. Proc. Beltwide Cotton Conf. p153-156

2017

- C48. **Zhang J.F.**, Soum Sanogo, Richard Percy, Tom Wedegaertner, and Don Jones. 2017. Evaluation of cotton for resistance to southwestern cotton rust (*Puccinia cacabata*). Proc. Beltwide Cotton Conf. p568-474
- C47. Elabbli Hanan, A. Abdelraheem, Soum Sanogo, Terry A. Wheeler, Vasu Kuraparthi, and **Jinfa Zhang**. 2017. Evaluation of cotton cultivars and breeding lines for resistance to bacterial blight. Proc. Beltwide Cotton Conf. p475-482
- C46. Chen Jie, Jianyong Wu, Chaozhu Xing, Xihua Li, Jiwen Yu, Mingzhou Song, and **Jinfa Zhang**. 2017. Phylogenetic analysis and SNP identification of NAC gene family in cotton. Proc. Beltwide Cotton Conf. p483-490
- C45. Zhang Sujun, Jina Chi, Xiangyun Zhang, Jianhong Zhang, Jianyong Wu, Chaozhu Xing, Xihua Li, Jiwen Yu, Jie Chen, Zongfu Han, and **Jinfa Zhang**. 2017. A comparative phylogenetic analysis and SNP identification of cellulose synthase gene family in cotton. Proc. Beltwide Cotton Conf. p491-499
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- C42. Idowu O.J., **J.F. Zhang**, J.B. Pierce, R.P. Flynn, and T.C. Wedegaertner. 2015. Impact of deficit irrigation on selected glandless cultivars in New Mexico. Proc. Beltwide Cotton Conf. p160-163

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- C41. **Zhang J.F.**, T. Wedegaertner, and S. E. Hughs. 2014. Field evaluation of thrips resistance in glandless and glanded cotton. Proc. Beltwide Cotton Conf. p621-631
- C40. **Zhang J. F.**, T. Wedegaertner, and S. E. Hughs. 2014. Development of new glandless cotton germplasm. Proc. Beltwide Cotton Conf. p608-620

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- C39. Idowu O. J., R. P. Flynn, J. B. Pierce, **J. Zhang**, J. Scheffler and T. C. Wedegaertner. 2013. Evaluation of three cultivars of glandless cotton in New Mexico. Proc. Beltwide Cotton Conf. p87-89
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C27. **Zhang Jinfa** and S. E. Hughs. 2012. Field screening for drought tolerance in cotton. Proc. Beltwide Cotton Conf. p713-718

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C23. **Zhang Jinfa**, W. Wang, S. Bajaj, H. Gatica, S. Sanogo, R. Flynn, C. French, R. Percy, M. Ulloa, and E. Hughs. 2008. *Verticillium* wilt resistance in cotton: germplasm evaluation and inheritance. Proc. Beltwide Cotton Conf. p838-855

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C15. Gatica-Palermo H., E. Hughs, Roy G. Cantrell and **Jinfa Zhang**. 2006. Fiber quality and agronomic traits of New Mexico Acala cotton released since 1930s: 2005 results. Proc. Beltwide Cotton Conf. p752-755

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C13. Higbie Sarah M., James McD. Stewart, Thea Wilkins, Fei Wang and **Jinfa Zhang**. 2005. Utilization of an intraspecific hybrid population for salt tolerance studies. Proc. Beltwide Cotton Conf. p957-958

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C5. **Zhang Jinfa**, D. Yang, G. Coyle and J. McD. Stewart. 2000. The hairy anther phenotype is conditioned by two genetic systems in cotton. Proc. Beltwide Cotton Conf. p508-510

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C4. **Zhang Jinfa**, Alexandre Nepomuceno and J. M. Stewart. 1998. Gene expression related to the semigamy genotype in cotton (*Gossypium barbadense*). Proc. Beltwide Cotton Conf. p1457-1462

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C3. **Zhang Jinfa**, A. L. Nepomuceno and J. M. Stewart. 1997. Effect of alien cytoplasm on photosynthesis and related traits. Proc. Beltwide Cotton Conf. p1381-1383

C2. Altaf M. K., J. M. Stewart, M. K. Wajahatullah, **Jinfa Zhang** and R. G. Cantrell. 1997. Molecular and morphological genetics of a trispecies F2 population of cotton. Proc. Beltwide Cotton Conf. p448-452

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2019

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D13. Feng, C.D., **J. F. Zhang**, and J. McD. Stewart. 2001. STS markers co-segregate with cotton cytoplasmic male sterility restorer gene RF1. Ark. Agric. Exp. Stn. Res. Series 497: 267-271

D12. Stewart, J. McD., **J. F. Zhang**, and G. Coyle. 2001. Introgression and inheritance of a red calyx trait. Cotton Res. Meeting, Ark. Agric. Exp. Stn. Special Rep. 204: 237-239

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D11. **Zhang Jinfa**, J. McD. Stewart and R. B. Turley. 2000. Fertility restoration of CMS-D8 in cotton: allelism and molecular mechanism. Proc. Cotton Res. Meeting, Ark. Agric. Exp. Stn. Special Rep. 198: 231-234

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D7. **Zhang Jinfa**, J. McD. Stewart and R. B. Turley. 1999. Genetic and molecular characterization of semigamy expression in cotton (*Gossypium barbadense*). Proc. Cotton Res. Meeting, Ark. Agric. Exp. Stn. Special Rep. 193: 275-277

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- D5. **Zhang Jinfa**, M. K. Wajahatullah and J. M. Stewart. 1998. Molecular mapping of CMS-D8 restoration and gene cloning specific to D8 restoration in cotton. Proc. Cotton Res. Meeting, Ark. Agric. Exp. Stn. Special Rep. 188: 87-89
- D4. **Zhang Jinfa** and J. M. Stewart. 1998. Genetics of CMS-D8 restoration in cotton. Proc. Cotton Res. Meeting, Ark. Agric. Exp. Stn. Special Rep. 188: 90-94

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- D3. **Zhang Jinfa**, J. McD. Stewart and Gwen Coyle. 1997. Effect of alien cytoplasm on boll traits and fiber quality in *Gossypium barbadense* L. Proc. Cotton Research Meeting and Summaries of Cotton Research in Progress. University of Arkansas Agric. Exp. Stn. Special Rep. 183: 144-146
- D2. Altaf M. K., R. G. Cantrell, **Zhang Jinfa** and J. McD. Stewart. 1997. Segregation patterns of molecular, morphological and quantitative traits in a trispecies F2 cotton population. Proc. Cotton Research Meeting and Summaries of Cotton Research in Progress. University of Arkansas Agric. Exp. Stn. Special Rep. 183: 147-149
- D1. Wajahatullah M. K., J. M. Stewart and **Zhang Jinfa**. 1997. Use of RAPD markers to analyze genomic affinity among Australian *Gossypium* species. Proc. Cotton Research Meeting and Summaries of Cotton Research in Progress. University of Arkansas Agric. Exp. Stn. Special Rep. 183: 150-152

E. Non-refereed abstracts in proceedings

2021

- E87. Abdelraheem A., Y. Zhu, T. Wheeler, J. Dever, J. Ma, J. Yu, Y. Shi, Y. Yuan, T. Wedegaertner, and **J. F. Zhang**. 2021. Genetic mapping for resistance to fusarium wilt in two introgressed populations of Upland cotton. Proc. Beltwide Cotton Conf. (in press)
- E86. Abdelraheem A., Y. Zhu, J. Dever, T. Wheeler, T. Wedegaertner, and **J. F. Zhang**. 2021. Identification of resistance sources to Fusarium wilt race 4 in *Gossypium barbadense* and cultivated diploid cotton species. Proc. Beltwide Cotton Conf. (in press)
- E85. Zhu Y., A. Abdelraheem, P. Cooke, T. Wheeler, J. Dever, T. Wedegaertner, and **J. F. Zhang**. 2021. Comparative analysis of infection process in cotton differing in resistance to Fusarium wilt caused by *Fusarium oxysporum* f. sp. *vasinfectum* race 4. Proc. Beltwide Cotton Conf. (in press)
- E84. Moore K, A. Abdelraheem, Y. Zhi, D. Whitelock, C. Armijo, P., Funk, T. Wedegaertner, and **J. F. Zhang**. 2021. Genetic variation in seed size and fuzz content in commercial cultivars and breeding lines of Upland cotton. Proc. Beltwide Cotton Conf. (in press)

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- E83. Abdelraheem Abdelraheem, T. Wedegaertner, and **Jinfa Zhang**. 2020. Genetic analysis and quantitative trait locus mapping for Fusarium wilt race 4 resistance in a recombinant inbred line population of Pima cotton. Proc. Beltwide Cotton Conf. p92
- E82. Abdelraheem Abdelraheem, and **Jinfa Zhang**. 2020. Waterlogging tolerance in six cotton genotypes at the seedling stage. Proc. Beltwide Cotton Conf. p91

E81. **Zhang Jinfa**, Yi Zhu, Abdelraheem Abdelraheem, Philip Lujan, John Idowu, Robert Nicholas, and T. Wedegaertner. 2020. Field survey, detection and characterization of Fusarium wilt race 4 in cotton in New Mexico. Proc. Beltwide Cotton Conf. p84

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E79. Abdelraheem Abdelraheem, Yi Zhu, Gregory N. Thyssen, David D. Fang, Johnie N. Jenkins, Jack C. McCarty, Tom Wedegaertner, and **Jinfa Zhang**. 2019. Evaluation and QTL mapping of Fusarium wilt and Verticillium wilt Resistance in an introgressed MAGIC population derived from intermating between chromosome substitution lines and upland cotton. Proc. Beltwide Cotton Conf. p21

E78. Zhu Yi, Abdelraheem Abdelraheem, Soum Sanogo, **Jinfa Zhang**, Terry Wheeler, and Tom Wedegaertner. 2019. Pathogenicity test of Fusarium wilt and screening germplasm lines for fusarium wilt resistance in cotton. Proc. Beltwide Cotton Conf. p15

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E77. **Zhang J.F.** 2018. Fighting Fusarium wilt through breeding in cotton: a successful story in China. Proc. Beltwide Cotton Conf. p877-879

E76. Abdelraheem A., **Jinfa Zhang**, Gregory N. Thyssen, D. D. Fang, J. N. Jenkins, and Jack C. McCarty Jr. 2018. A genome-wide association study of tolerance to biotic and abiotic stresses in a MAGIC population of upland cotton. Proc. Beltwide Cotton Conf. p565

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E75. Idowu John, **Jinfa Zhang**, Murali Darapuneni, and Mohammed Omer. 2017. Reduced tillage for cotton in irrigated desert Southwest. Proc. Beltwide Cotton Conf. pxxx

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E73. Abdelraheem A., Soum Sanogo, **Jinfa Zhang**, V. Kuraparthi, Amanda Hulse-Kemp, David Stelly, Lori Hinze, and Don Jones. 2017. Evaluation and genetic analysis of Verticillium wilt resistance in the US Upland cotton. Proc. Beltwide Cotton Conf. p517

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E70. Abdelraheem A, **J.F. Zhang**, R.G. Percy, M. Gore, J. Dever, and D. Fang. 2016. Genetic analysis of yield, fiber quality and abiotic stress tolerance in Pima cotton. Proc. Beltwide Cotton Conf. p359

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