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Department of Plant and Environmental Sciences
College of Agricultural, Consumer and Environmental Sciences
New Mexico State University (NMSU), Las Cruces, NM 88003
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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: 20
Major advisor: M.S.- 10, Ph.D.- 10, and postdocs- 7
Host and advisor: 25 visiting scientists from 10 countries (China, India, Pakistan, Peru, Egypt, Mali, Chad, Benin, Burkina Faso, and Malawi)

AWARDS AND RECOGNITIONS

Cotton Genetics Research Award, National Cotton Council of America, 2020
Outstanding paper award, Crop Science, 2022
Top 2% most-cited scientist worldwide, Stanford University, 2021 and 2022
Top 3 most published author worldwide in the plant science category of cotton research, Journal of Natural Fibers, 2021
Top 4 most published author worldwide in the agronomy category of cotton research, Journal of Cotton Science, 2021
Top cited article, Journal of Plant Registrations, 2020-2021
Top cited article, Industrial Crops and Products, 2020-2021
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

Awards received by graduate students 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
Outstanding Graduate Student Award, NMSU Molecular Biology Graduate Program, 2012
Best Paper Award, Graduate Students, Department of Plant and Environmental Sciences, 2022
Best Paper Award, Graduate Students, Department of Plant and Environmental Sciences, 2015
Best Paper Award, Graduate Students, Department of Plant and Environmental Sciences, 2014

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, 2022
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 (2020 impact factor= 4.379), 2016-2020
Editorial Board, International Journal of Genomics (2020 impact factor= 2.326), 2011-2020
Editorial Board, Journal of Crop Improvement (2020 impact factor= 1.390), 2016-2018
Editorial Board, Journal of Cotton Research (by Springer Nature), 2018-present
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 (2021 impact factor= 2.980), 2013-present
Guest Associate Editor, Frontiers in Plant Science (2021 impact factor= 6.627), 2020-2022
Associate Editor, BMC Genomics (2021 impact factor= 4.560), 2012-present
Associate Editor, BMC Genetics (2020 impact factor= 2.567), 2016-2020
Associate Editor, The Crop Journal (2021 impact factor= 4.647), 2014-present
Associate Editor, Euphytica (2021 impact factor= 2.185), 2016-present
Associate Editor, PLoS One (2020 impact factor= 3.240), 2011-2019
Associate Editor, Journal of Cotton Science, National Cotton Council, USA, 2011-present

Chair, Tengtou Agricultural Science Award Committee, Agronomy Society of America, 2022
Member, Tengtou Agricultural Science Award Committee, Agronomy Society of America, 2021
Member, Crop Science Society of America and Agronomy Society of America
Member, International Cotton Genome Initiative

Invited Expert to advice the national cotton breeding program in Sudan, FAO-IAEA, 1998
Guest Professor, Institute of Cotton Research, Chinese Academy of Agric. Sci., China, 2003
Guest Professor, Southwest University, Chongqing, China, 2012
Guest Professor, Xinjiang Agricultural University, 2013

Invited Expert to give seminars by the following organizations, 2004-2019:

Institute of Crop Science, Chinese Academy of Agricultural Sciences, Beiijing
China Agricultural University, Beijing
Institute of Plant Physiology and Ecology, Chinese Academy of Science, Shanghai
Shanghai Jiaotong University, Shanghai
Nanjing Agricultural University, Nanjing
Zhejiang University, Hangzhou
Zhejiang Agricultural Academy of Sciences, Hangzhou
Zhejiang A & F University, Hangzhou
Central China Agricultural University, Wuhan
Institute of Oilseed Research, Chinese Academy of Agricultural Sciences, Wuhan
Hubei Agricultural Academy of Sciences, Wuhan
Jinzhou Agricultural Academy of Sciences, Jinzhou
Southwest University, Chongqing
Agricultural University of Hebei, Baoding
Hebei Agricultural Academy of Sciences, Shijiazhuang
Institute of Cotton Research, Chinese Academy of Agricultural Sciences, Anyang
Northwest A & F University, Yangling
Xinjiang Agricultural University, Urumoqi
Xinjiang Academy of Agricultural Sciences, Urumoqi
Xinjiang Academy of Agricultural and Reclamation Sciences, Shihezi
Shihezi University, Shihezi

At New Mexico State University

Senator, Faculty Senate, 2012-2015
Member, Leadership Team, Cotton Task Force, New Mexico, 2009-2012
Member, Crop Variety Release Committee, 2003- present
Member, Search Committee, Crop Physiology faculty position in Clovis, 2005
Chair, Department Faculty Promotion and Tenure Committee, 2020-2022
Chair, Department Scholarship Committee, 2018
Chair, Department Awards Committee, 2014-2015
Chair, Department Graduate Studies Committee, 2012-2013
Chair, Search Committee, Chile Pepper Genetics and Breeding faculty position, 2019-2020
Chair, Search Committee, Sustainable Crop Production faculty position, 2007-2008
Member, Department Faculty Promotion and Tenure Committee, 2015- present
Member, Department Scholarship Committee, 2019-2021
Member, Department Awards Committee, 2019-2021
Member, Department Graduate Studies Committee, 2004-2005
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 Subcommittee
Member, National Pima Variety Testing Subcommittee

COTTON CULTIVARS AND GERMPLASM LINES RELEASED

Cotton cultivars approved by NMAES and released (with registrations in Crop Science Society of America for 9 cultivars)

1. **Acala 1517-21**: long staple, conventional (Zhang, 2020)
2. **Acala 1517-20**: long staple, conventional, Fusarium wilt race 4 resistant (Zhang, 2020)
3. **NuMex COT 19**: (medium staple, from introgression breeding of Upland × Pima cotton (Zhang, 2019, 2022)
4. **Acala 1517-18 GLS**: long staple, conventional glandless seeds used for food and feed (Zhang et al., 2019)
5. **NuMex COT 17 GLS**: medium staple, conventional glandless seeds used for food and feed (Zhang et al., 2020)
6. **Acala 1517-16 B2RF**: long staple, insect resistant and herbicide tolerant (Zhang et al., 2016)
7. **NuMex COT 15 GLS**: medium staple, conventional glandless seeds used for food and feed (Zhang et al., 2016)
8. **Acala 1517-09R**: long staple, herbicide tolerant (Zhang et al., 2011)
9. **Acala 1517-08**: long staple, conventional (Zhang et al., 2011)
10. **Acala 1517-99W:** long staple, bollworm and pink bollworm resistant (Zhang et al., 2008)
11. **Huamian 101**: medium staple, conventional, pink bollworm resistant (Wu et al., 1994)

Cotton germplasm lines released or co-released with registrations in Crop Science Society of America (Percy et al., 2009; Ulloa et al., 2009, 2022; Zhang et al., 2019a, b, 2022)

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)
23. FRU01 (PI 699966)

24. FRU02 (PI 699967)
25. FRU03 (PI 699968)
26. FRU04 (PI 699969)
27. FRU05 (PI 699970)
28. FRU06 (PI 699971)
29. FRU07 (PI 699972)
30. FRU08 (PI 699973)
31. FRU09 (PI 699974)
32. FRU10 (PI 699975)
33. FRU11 (PI 699976)
34. FRU12 (PI 699977)
35. FRU13 (PI 699978)
36. FRU14 (PI 699979)
37. FRU15 (PI 699980)
38. FRU16 (PI 699981)
39. FRU17 (PI 699982)

Cotton genetic and breeding populations developed and/or published (some with registrations in Crop Science Society of America)

1. TM-1/NM24016: 95 recombinant inbred lines (Gore et al., 2012)
2. SureGrow 747/Pima S-7: 146 backcross inbred lines (Fang et al., 2013)
3. SureGrow 747/Giza 75: 146 backcross inbred lines (Yu et al., 2013)
4. CRI 36/7124: 250 backcross inbred lines (Ma et al., 2019)
5. Acala 1517-99/Pima PHY 76: 1,500 recombinant inbred lines (Zhang, 2022)
6. Pima S-6/89590: 161 recombinant inbred lines (Abdelraheem et al., 2020)
7. Multi-parent advanced generation inter-cross (MAGIC) introgressed line population of Upland cotton: 530 recombinant inbred lines (Martinez et al., 2018)
8. Multi-parent advanced generation inter-cross (MAGIC) population of Upland cotton from 11 parental lines: 650 recombinant inbred lines (Zhang et al., 2020; Zhu et al., 2022)
9. Augmented nested association mapping (aNAM) population of Upland cotton from 3 × 30 cross combinations: 9,000 recombinant inbred lines (Yu et al., 2022)
10. Multi-parent advanced generation inter-cross (MAGIC) line population of Pima cotton from two sets of diallel crosses of 14 parental lines: 4,000 recombinant inbred lines (Zhang, 2022)

BOOKS AND BOOK CHAPTERS

1. **Zhang Jinfa** and Chittaranjan Kole. 2022. Cotton Genome. Springer (In press)
2. **Zhang Jinfa** and Manikanda Boopathi. 2022. Chapter 5. Disease resistance in cotton. In: Kole C. (ed.) Genomic Designing of Stress Resistant Technical Crops. Springer, 616 pp.
3. **Zhang Jinfa**. 2015. Transgenic cotton breeding. *In* Fang D. D. and R. G. Percy (eds.) Cotton. ASA-CSSA-SSSA Monograph Series. Madison, WI (An invited book chapter). p. 229-253.
4. Meng J. L. and **Jinfa Zhang**. 1995. Chapter 3. Genetic control of gametophyte formation and gene expression in plants. In: Meng J. L. (ed.) Plant Reproductive Genetics. Scientific Press, Beijing, China
5. Liu D., J. X. Han, and **Jinfa Zhang**. 1988. Biometrical Genetics. Scientific Press, Beijing, China

PUBLCATIONS

A. Refereed publications

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

2022 (21 journal articles)

A205. ****Zhang Jinfa**. 2022. Registration of a high-yielding introgression Upland cotton cultivar, 'NuMex COT 19'. J. Plant Reg. (Accepted) (JIF: 0.902)

A204. ****Zhang Jinfa**, Roy G. Cantrell, and R. Flynn. 2022. Registration of nine Acala cotton germplasm lines with improved fiber quality in Upland cotton (*Gossypium hirsutum* L.). J. Plant Reg. (Accepted) (JIF: 0.902)

A203. ****Zhang Jinfa**, Yi Zhu, Heather D Elkins-Arce, Terry Wheeler, Jane K Dever, Derek Whitelock, Tom Wedegaertner, Kater Hake, andKaitlyn Bissonnette. 2022. Efficiency of selection for resistance to Fusarium wilt race 4 in cotton when conducted in the field versus greenhouse. Euphytica 218: 165 (JIF: 2.185)

A202. ****Zhang Jinfa**, Abdelraheem Abdelraheem*, Yi Zhu*, Heather Elkins-Arce, Jane Dever, Terry A. Wheeler, Derek Whitelock, Kater Hake, and Tom Wedegaertner. 2022. Studies of evaluation methods for resistance to Fusarium wilt race 4 (*Fusarium oxysporum* f. sp. *vasinfectum*) in cotton: effects of cultivar, planting date, and inoculum density on disease progression. Front. Plant Sci. 13: 900131 (JIF: 6.627)

A201. ****Zhang Jinfa**, Yi Zhu*, Heather Elkins-Arce, Jane Dever, Terry A. Wheeler, Derek Whitelock, Kater Hake, and Tom Wedegaertner. 2022. Studies of evaluation parameters for resistance to Fusarium wilt in cotton caused by Fusarium wilt race 4 (*Fusarium oxysporum* f. sp. *vasinfectum*). Crop Sci. 62: 1115-1132 (JIF: 2.763)

A200. ****Zhang Jinfa**, Abdelraheem Abdelraheem*, Jianjiang Ma, Yi Zhu*, Jane Dever, Terry A. Wheeler, Derek Whitelock, Kater Hake, Tom Wedegaertner, and Jiwen Yu. 2022. Mapping of dynamic QTLs for resistance to Fusarium wilt (*Fusarium oxysporum* f. sp. *vasinfectum*) race 4 in a backcross inbred line population of Upland cotton. Mol. Genet. Genom. 297:319-332 (JIF: 2.980)

A199. ****Zhang Jinfa**, Yi Zhu*, Abdelraheem Abdelraheem*, Heather Elkins-Arce, Jane Dever, Terry A. Wheeler, Tom Isakeit, Kater Hake, and Tom Wedegaertner. 2022. Use of a Latin square design to assess experimental errors in field evaluation of cotton for resistance to Fusarium wilt race 4. Crop Sci. 62: 575-591 (JIF: 2.763)

A198. *Zhu Yi, Kathleen Willey, Terry Wheeler, Jane K. Dever, Derek Whitelock, Tom Wedegaertner, Kater Hake, Kaitlyn Bissonnette, and **Jinfa Zhang****. 2022. A rapid and reliable method for evaluating cotton resistance to Fusarium wilt race 4 based on taproot rot at the seed germination stage. Phytopathology. Published online, https://doi.org/10.1094/PHYTO-08-22-0286-FI (4.010)

A197. *Zhu Yi, Heather Elkins-Arce, Terry A. Wheeler, Jane Dever, Derek Whitelock, Kater Hake, Tom Wedegaertner, and **Jinfa Zhang****. 2022. Effect of growth stage, cultivar, and root wounding on disease development in cotton caused by Fusarium wilt race 4 (*Fusarium oxysporum* f. sp. *vasinfectum*). Crop Sci. Published online, Sept. 6, 2022. https://doi.org/10.1002/csc2.20839 (JIF: 2.763)

A196. *Zhu Yi, Abdelraheem Abdelraheem*, Gregory N. Thyssen, Zonghua Teng, David D. Fang, Johnie N. Jenkins, Jack C. McCarty Jr, Tom Wedegaertner, and **Jinfa Zhang****. 2022. A GWAS identified a major QTL for resistance to Fusarium wilt (*Fusarium oxysporum* f. sp. *vasinfectum*) race 4 in a MAGIC population derived from intermating of eleven Upland cotton (*Gossypium hirsutum*) parents. Theor. Appl. Genet. 135: 2297-2312 (JIF: 5.574)

A195. *Zhu Yi, A. Abdelraheem*, Terry A. Wheeler, Jane K. Dever, Tom Wedegaertner, Kater D. Hake, and **Jinfa Zhang****. 2022. Comparative analysis of infection process in Pima cotton differing in resistance to Fusarium wilt caused by *Fusarium oxysporum* f. sp. *vasinfectum* race 4. Phytopathology 112: 852-861 (JIF: 4.010)

A194. *Abdelraheem A., Y. Zhu*, and **Jinfa Zhang****. 2022. Quantitative trait locus mapping for fusarium wilt race 4 resistance in a recombinant inbred line population of Pima cotton (*Gossypium barbadense*). Pathogens 11: 1143 (JIF: 4.531)

A193. Ulloa M., Robert B. Hutmacher, **Jinfa Zhang**, TariLee Schramm, Philip A. Roberts, Margaret Ellis, Jane K. Dever, Terry A. Wheeler, Travis W. Witt, Soum Sanogo, Steve Hague, Mark Keely, Joel Arce, Jorge Angeles, Kater Hake, and Paxton Payton. 2022. Registration of 17 upland germplasm lines (PSSJ-FRU01 to PSSJ-FRU17) with improved resistance to Fusarium wilt race 4 and good fiber quality. J. Plant Reg. Published online Nov. 16, 2022. https://doi.org/10.1002/plr2.20258 (JIF: 0.902)

A192. Zhang Bingbing, Guoyuan Liu, Jikun Song, Bing Jia, Shuxian Yang, Jianjiang Ma, Ji Liu, Kashif Shahzad, Wenkui Wang, Wenfeng Pei, Man Wu, **Jinfa Jinfa**, and Jiwen Yu. 2022. Analysis of the MIR396 gene family and the role of MIR396b in regulating fiber length in cotton. Physiol. Plant. 174: e13801 (JIF: 5.081)

A191. Ma Jianjiang, Yafei Jiang, Wenfeng Pei, Man Wu, Qifeng Ma, Ji Liu, Jikun Song, Bing Jia, Shang Liu, Jianyong Wu**, **Jinfa Zhang**** and Jiwen Yu**. 2022. Gene expression and sequence variants reveal the mechanism underlying improvements in fibre elongation in an introgressed population derived from *Gossypium hirsutum* × *Gossypium barbadense*. J. Plant Biotechnol. 20: 1940–1955 (JIF: 13.263)

A190. Song Jikun, Wenfeng Pei, Nuohan Wang, Jianjiang Ma, Man Wu, Yue Xin, Shuxian Yang, Wei Wang, Quanjia Chen, **Jinfa Zhang,** Jiwen Yu, and Yanying Qu. 2021. Transcriptome analysis and identification of genes associated with oil accumulation in upland cotton. Physiol. Plant. 174: e13701 (JIF: 5.081)

A189. Wu Luyao, Bing Jia, Wenfeng Pei, Li Wang, Jianjiang Ma, Man Wu, Jikun Song, Shuxian Yang, Yue Xin, Li Huang, Pan Feng, **Jinfa Zhang**, and Jiwen Yu. 2021. QTL analysis and identification of candidate genes affecting seed size and shape in an interspecific backcross inbred line population of *Gossypium hirsutum* × *Gossypium barbadense*. Front. Plant Sci. 13: 837984 (JIF: 6.627)

A188. Wu M., W. Pei, T. Wedegaertner, **J. F. Zhang****, and J. Yu**. 2022. Genetics, breeding and genetic engineering to improve cottonseed oil and protein: a review. Front. Plant Sci. 13: 864850 (JIF: 6.627)

A187. Feng J., Y. Li, **J. F. Zhang**, M. Zhang, X.,Zhang, K. Shahzad, L. Guo, T. Qi, H. Tang, H. Wang, X. Qiao, Z. Lin, C. Xing, and J. Wu. 2022. Transcript complexity and new insights of restorer line in cms-d8 cotton through full-length transcriptomic analysis. Front. Plant Sci. 13: 930131 (JIF: 6.627)

A186. Han W., J. Zhao, X. Deng, A. Gu, D. Li, Y. Wang, X. Lu, Q. Zu, Q. Chen, Q. J. Chen, **J. F. Zhang**, and Y. Qu. 2022. Quantitative trait locus mapping and identification of candidate genes for resistance to Fusarium wilt race 7 using a resequencing-based high density genetic bin map in a recombinant inbred line population of *Gossypium barbadense*. Front. Plant Sci. 13: 815643 (JIF: 6.627)

A185. Liu Y., Zhai Y., Li Y., Zheng J., Zhang J. F., Kumar M., Li F., and M. Ren. 2022. Multiple strategies to detoxify cottonseed as human food source. Front. Plant Sci. 13: 1080407 (JIF: 6.627)

2021 (16 journal articles)

A184. ****Zhang Jinfa** and Tom Wedegaertner. 2021. Genetics and breeding for glandless Upland cotton with improved yield potential and disease resistance: a review. Front. Plant Sci. 12:753426 (JIF: 6.627)

A183. ****Zhang Jinfa**, Abdelraheem Abdelraheem, Tom Wedegaertner. 2021. Tolerance of Pima and Upland cotton to trifloxysulfuron (Envoke) herbicide under field conditions. J. Cotton Res. 4:26

A182. ****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. 61: 1783-1796 (JIF: 2.763)

A181. ****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: JIF: 2.185)

A180. 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. 105: 3353-3367 (JIF: 4.614)

A179. 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. 61: 1809-1925 (JIF: 2.763)

A178. 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: 4.614)

A177. *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. 61:4000-4011 (JIF: 2.763)

A176. *Abdelraheem A., Yi Zhu, Terry A. Wheeler, Jane K. Dever, Kater Hake, Tom Wedegaertner, and **Zhang Jinfa****. 2021. Identification of resistance sources to Fusarium wilt race 4 in *Gossypium barbadense* and cultivated Asiatic diploid species. Euphytica 217: 153 (JIF: 2.185)

A175. *Abdelraheem Abdelraheem, Vasu Kuraparthy, 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: 6.449)

A174. *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: 2.98)

A173. 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 B_{12}-linked marker analysis. Crop Sci. 61: 3458-3468 (JIF: 2.763)

A172. Elassbli Hanan, A. Abdelraheem*, Yi Zhu, Zonghua Teng, Terry A Wheeler, Vasu Kuraparthy, 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 296: 719-729 (JIF: 2.98)

A171. 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: 2.185)

A170. *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: 3.291)

A169. 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. 61: 2467-2477 (JIF: 2.763)

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