

## **Jinfa Zhang**

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College of Agricultural, Consumer and Environmental Sciences  
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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: 38 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, 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:** 8 cultivars; 13 germplasm lines; & 1 genetic population.

**Publications:** 140 refereed papers; 93 ref. papers in Chinese; 51 proceeding papers; & 77 proc. abstracts.

### **AWARDS**

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

3<sup>rd</sup>-Place Award, Graduate student competition, Poster, Beltwide Cotton Conferences, 1998

2<sup>nd</sup>-Place Award, Scientific Achievement, Ministry of Agriculture of China, 1994

3<sup>rd</sup>-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**

1<sup>st</sup>-Place Award, Graduate Student competition, Beltwide Cotton Conferences, 2013  
3<sup>rd</sup>-Place Award, Graduate Student competition, Beltwide Cotton Conferences, 2011  
2<sup>nd</sup>-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, Journal of Cotton Research, Chinese Academy of Agricultural Sciences, 2018  
Editorial Board, Scientific Reports (2017 impact factor= 4.122), 2016-  
Editorial Board, Journal of Crop Improvement, 2016-  
Associate Editor, Euphytica (2017 impact factor= 1.546), 2016-  
Associate Editor, BMC Genetics (2017 impact factor= 2.469), 2016-  
Associate Editor, The Crop Journal (2017 impact factor= 2.658), 2014- present  
Editor, Molecular Genetics and Genomics (2017 impact factor= 2.734), 2013- present  
Associate Editor, BMC Genomics (2017 impact factor= 3.73), 2012- present  
Editorial Board, International Journal of Genomics (2017 impact factor= 1.904), 2011- present  
Associate Editor, PLoS One (2017 impact factor= 2.766), 2011- present  
Associate Editor, Journal of Cotton Science, National Cotton Council, USA, 2011- 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

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, Delegation led by Provost to China Agricultural University (CAU), May and Oct. 2015

Member, Delegation led by Provost to Agricultural University of Hebei (AUH), Sept. 2014

Coordinator, Delegation led by Associate Dean of College of Agricultural, Consumer and Environmental Sciences to CAU, AUH, Northwest A & F University, Southwest University, and Huazhong Agricultural University, May 17-26, 2014

Member, Leadership Team, Cotton Task Force, New Mexico, 2009-2012

Member, College 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, 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

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. Acala 1517-16 B2RF (Zhang et al., 2016)
5. NuMex COT 15 GLS (Zhang et al., 2016)
6. NuMex COT 17 GLS (Zhang et al., 2018)
7. NuMex COT 19 (Zhang et al., 2018)
8. Acala 1517-18 GLS (Zhang et al., 2018)
9. Acala 1517-20 (Zhang et al., to be submitted, Jan. 2019)
10. Acala 1517-21 (Zhang et al., to be submitted, Jan. 2019)
11. Acala 1517-22 (Zhang et al., to be submitted, Jan. 2019)

### B. Germplasm releases or co-releases

1. NM 990649 (Reg. No. GP-1048, PI 688428)
2. NM 990764 (Reg. No. GP-1049, PI 688427)
3. NM 990815 (Reg. No. GP-1050, PI 688429)
4. NM 990827 (Reg. No. GP-1051, PI 688430)
5. NM 970123 (Reg. No. GP-1045, PI 688432)
6. NM 990813 (Reg. No. GP-1046, PI 678373)
7. NM W1218 (Reg. No. GP-1047, PI 678372)
8. SJ-07P-FR01 (Reg. No. GP-910, PI 654065)
9. SJ-07P-FR02 (Reg. No. GP-911, PI 654066)
10. SJ-07P-FR03 (Reg. No. GP-912, PI 654067)
11. SJ-07P-FR04 (Reg. No. GP-913, PI 654068)
12. PSI 113 (Reg. No. GP-916, PI 655939)
13. PSI 425 (Reg. No. GP-917, PI 655940)

## PUBLICATIONS

### A. Refereed publications

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

2018

A142. **\*\*Zhang Jinfa**. 2018. Registration of Fusarium wilt race 4 resistant cultivar ‘Acala 1517-20’ of Upland cotton (*Gossypium hirsutum* L.). Approved for release by New Mexico Variety Release Committee, Dec. 2018

A141. **\*\*Zhang Jinfa**. 2018. Registration of a high-yielding introgression Upland cotton cultivar, ‘NuMex COT 19’. Approved for release by New Mexico Variety Release Committee, Dec. 2018

- A140. Abdelraheem A., N. Esmaili, Mary O'Connell, and **Jinfa Zhang\*\***. 2018. Progress and perspective on drought and salt stress tolerance in cotton. *Industrial Crops and Products* (accepted upon revision) (JIF: 3.849)
- A139. Wu Man, **Jinfa Zhang**, et al. 2018. Differential gene expression in selected backcross inbred lines developed from an interspecific cross between Upland cotton, *Gossypium hirsutum*, and Egyptian cotton, *G. barbadense*. *Mol. Biol. Rep.* (accepted upon revision) (JIF: 1.889)
- A138. Cui Yupeng, Jianjiang Ma, Guoyuan Liu, Nuohan Wang, Wenfeng Pei, Man Wu, Xingli Li, **Jinfa Zhang**, and Jiwen Yu. 2018. Genome-wide identification and expression of the glycerol-3-phosphate acyltransferase (GPAT) gene family in *Gossypium*. *Front. Genet.* (accepted upon revision) (JIF: 4.151)
- A137. Zhu Y., Phillip Lujan, Srijana Dura, Robert Steiner, **Jinfa Zhang**, and S. Sanogo. 2018. Etiology of *Alternaria* leaf spot in cotton in Southern New Mexico. *Plant Dis.* (accepted upon revision) (JIF: 2.941)
- A136. Liu Guoyuan, Wenfeng Pei, Dan Li, Jianjiang Ma, Yupeng Cui, Nuohan Wang, Jikun Song, Man Wu, Libei Li, Xinshan Zang, Shuxun Yu, **Jinfa Zhang**, and Jiwen Yu. 2018. A targeted QTL analysis for fiber length using a genetic population between two introgressed backcrossed inbred lines in *Gossypium hirsutum*. *Crop J.* (in press) (JIF: 2.658)
- A135. Li Xue, Kashif Shahzad, Liping Guo, Tingxiang Qi, Xuexian Zhang, Hailin Wang, Huini Tang, Xiuqin Qiao, **Jinfa Zhang**, Jianyong Wu, and Chaozhu Xing. 2018. Using yield quantitative trait locus targeted SSR markers to study the relationship between genetic distance and yield heterosis in Upland cotton (*Gossypium hirsutum* L.). *Plant Breed. Online* Dec. 17, 2018. doi.org/10.1111/pbr.12668 (JIF: 1.392)
- A134. **\*\*Zhang Jinfa**, A. Abdelraheem, and Tom Wedegaertner. 2018. 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 (online 15 December, 2018) (JIF: 1.546)
- A133. **\*\*Zhang Jinfa**, A. Abdelraheem, and J.M. Stewart. 2018. A Comparative analysis of cytoplasmic effects on lint yield and fiber quality between CMS-D2 and CMS-D8 systems in Upland cotton. *Crop Sci.*, online December 14, 2018. doi: 10.2135/cropsci2018.10.0614 (JIF: 1.635)
- A132. **\*\*Zhang Jinfa**, A. Abdelraheem, and Tom Wedegaertner. 2018. 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: 3.849)
- A131. **\*\*Zhang Jinfa**, R. G. Cantrell and S. E. Hughs. 2018. Registration of four Acala cotton germplasm lines with improved fiber strength in Upland cotton (*Gossypium hirsutum* L.). *J. Plant Reg.* (online) (JIF: 0.474)
- A130. **\*\*Zhang Jinfa**, Tom Wedegaertner, Omololu J. Idowu, Soum Sanogo, Robert Flynn, and Sidney E. Hughs, and Don C. Jones. 2018. Registration of a glandless 'Acala 1517-18 GLS' cotton. *J. Plant Reg.* (online) (JIF: 0.474)
- A129. **\*\*Zhang Jinfa**, Roy G. Cantrell, Sidney E. Hughs, and Don C. Jones. 2018. Registration of NM 970123, NM 990813, and NM W1218 germplasm lines of Upland cotton (*Gossypium hirsutum* L.). *J. Plant Reg.* (online) (JIF: 0.474)
- A128. Ma J.J., **Jinfa Zhang** et al. 2018. Genetic variation of dynamic fiber elongation and developmental quantitative trait locus mapping of fiber length in Upland cotton (*Gossypium hirsutum* L.). *BMC Genomics* 19: 882 (JIF: 3.73)
- A127. Lu Hejun, Xinglei Cui, Zhen Liu, Yuling Liu, Xingxing Wang, Zhongli Zhou, Xiaoyan Cai, Zhenmei Zhang, Xinlei Guo, Jinping Hua, Zhiying Ma, Xiyin Wang, Jinfa Zhang, Hong Zhang, Fang Liu and Kunbo Wang. 2018. Discovery and annotation of a novel transposable element family in *Gossypium*. *BMC Plant Biol.* 18: 307 (JIF: 3.93)
- A126. **\*\*Zhang Jinfa**. 2018. History, progress and perspective in cotton breeding and genetics in New Mexico. *J. Cotton Sci.* 22: 191–210
- A125. Zhang Bingbing, Liu Guoyuan, Zhang Meng, Li Xue, Guo Liping, Zhang Xuexian, Qi Tngxian, Wang Hailin, Tang Huini, Qiao Xiuqin, **Jinfa Zhang\*\***, Chaozhu Xing\*\*, Jianrong Wu\*\*. 2018. A combined small RNA and transcriptome sequencing analysis reveal regulatory roles of miRNAs during anther development of Upland cotton carrying cytoplasmic male sterile *Gossypium harknessii* (D2) cytoplasm. *BMC Plant Biol.* 18: 242 (JIF: 3.93)
- A124. Martinez G., A. Abdelraheem, Murali Darapuneni, J. N. Jenkins, J. C. McCarty Jr., and **Jinfa Zhang\*\***. 2018. Evaluation of a multi-parent advanced generation inter-cross (MAGIC) introgressed line population for *Verticillium* wilt resistance in Upland cotton. *Euphytica* 214: 197 (JIF: 1.546)

- A123. Zang Xinshan, Xiaoli Geng, Yanhui Geng, Nuohan Wang, Guoyuan Liu, Jianjiang Ma, Dan Li, Yupeng Cui, Wenfeng Pei, Man Wu, Xingli Li, **Jinfa Zhang**, and Jiwen Yu. 2018. Genome-scale analysis of the WRI-like family in *Gossypium* and functional characterization of GhWRI1a controlling triacylglycerol content. *Front. Plant Sci.* 9: 1516 (JIF: 4.495)
- A122. Liu Guoyuan, Man Wu, Wenfeng Pei, Xihua Li, Nuohan Wang, Jianjiang Ma, Xinshan Zang, Shuxun Yu, **Jinfa Zhang**, and Jiwen Yu. 2018. A comparative analysis of small RNAs between two Upland cotton backcross inbred lines with different fiber length: expression and distribution. *Crop J.* (online) doi.org/10.1016/j.cj.2018.08.004 (JIF: 2.658)
- A121. Yang L., Y. Wu, M. Zhang, **J. Zhang**, J. M. Stewart, C. Xing, J. Wu, and S. Jin. 2018. Transcriptome, cytological and biochemical analysis of cytoplasmic male sterility and maintainer line in CMS-D8 cotton. *Plant Mol. Biol.* 97: 537-551 (JIF: 3.905)
- A120. Zhu Y., Phillip Lujan, Srijana Dura, Robert Steiner, Tom Wedegaertner, **Jinfa Zhang\*\***, and S. Sanogo\*\*. 2018. Evaluation of commercial Upland (*Gossypium hirsutum*) and Pima (*G. barbadense*) cotton cultivars, advanced breeding lines and glandless cotton for resistance to *Alternaria* leaf spot (*Alternaria alternata*) under field conditions. *Euphytica* 214: 147 (JIF: 1.546)
- A119. Abdelraheem A., D. D. Fang, and **Jinfa Zhang\*\***. 2018. Quantitative trait locus mapping of drought and salt tolerance in an introgressed recombinant inbred line population of Upland cotton under the greenhouse and field conditions. *Euphytica* 214: 8 (JIF: 1.546)

## 2017

- A118. **\*\*Zhang Jinfa** and A. Abdelraheem. 2017. Combining ability, heterosis, and genetic distance among nine elite American Pima cotton genotypes (*Gossypium barbadense*). *Euphytica* 213: 240 (JIF: 1.618)
- A117. **\*\*Zhang Jinfa**, A. Abdelraheem, and J. X. Wu. 2017. Heterosis, combining ability and genetic effect, and relationship with genetic distance based on a diallel of hybrids from five diverse *Gossypium barbadense* genotypes. *Euphytica* 213: 208 (JIF: 1.618)
- A116. Wu Jianyong, Meng Zhang, Xuexian Zhang, Liping Guo, Tingxiang Qi, Hailin Wang, Huini Tang, **Jinfa Zhang**, and Chaozhu Xing. 2017. Development of InDel markers for the restorer gene Rf1 and assessment of their utility for marker-assisted selection in cotton. *Euphytica* 213: 251 (JIF: 1.618)
- A115. Li Xihua, Guoyuan Liu, Yanhui Geng, Man Wu, Wenfeng Pei, Honghong Zhai, Xinshan Zang, Xingli Li, **Jinfa Zhang**, Shuxun Yu, and Jiwen Yu. 2017. A genome-wide analysis of small auxin-up RNA (SAUR) gene family in cotton. *BMC Genomics* 18: 815 (JIF: 3.867)
- A114. Abdelraheem A., F. Liu, M. Song, and **Jinfa Zhang\*\***. 2017. A meta-analysis of quantitative trait loci for abiotic and biotic stress resistance in tetraploid cotton. *Mol. Genet. Genomics* 292: 1221-1235 (JIF: 2.622)
- A113. Wu Jianyong, Meng Zhang, Bingbing Zhang, Xuexian Zhang, Liping Guo, Tingxiang Qi, Hailin Wang, **Jinfa Zhang**, and Chaozhu Xing. 2017. Genome-wide comparative transcriptome analysis of CMS-D2 and its maintainer and restorer lines in Upland cotton. *BMC Genomics* 18: 454 (JIF: 3.867)
- A112. Li X. H., M. Wu, G. Y. Liu, W. F. Pei, W. K. Wang, H. H. Zhai, J. W. Yu, **Jinfa Zhang**, and S. X. Yu. 2017. Candidate genes for fiber length quantitative trait loci through RNA-Seq, sequence variation identification, and linkage and physical mapping in cotton. *BMC Genomics* 18: 425 (JIF: 3.867)
- A111. Wang Nuohan, Jianjiang Ma, Wenfeng Pei, Man Wu, Haijing Li, Xingli Li, Shuxun Yu, **Jinfa Zhang**, and Jiwen Yu. 2017. A genome-wide analysis of the lysophosphatidate acyltransferase (LPAAT) gene family in cotton: organization, expression, sequence variation, and association with seed oil content and fiber quality. *BMC Genomics* 18: 218 (JIF: 3.867)
- A110. Zhang Bingbing, Guoyuan Liu, Xue Li, Liping Guo, **Jinfa Zhang**, Xuexian Zhang, Tingxiang Qi, Hailin Wang, Huini Tang, Xiuqin Qiao, Chaozhu Xing, and Jianyong Wu. 2017. A genome-wide identification and analysis of the

DYW-deaminase genes in the pentatricopeptide repeat gene family in cotton (*Gossypium* spp.). PLoS One 12: e0174201 (JIF: 3.057)

## 2016

- A109. **\*\*Zhang Jinfa**, Robert Flynn, Sidney E. Hughs, and Don C. Jones. 2016. Registration of ‘Acala 1517-16 B2RF’ cotton, a new Acala cotton cultivar with insect and herbicide resistance. J. Plant Reg. 10: 228-232 (JIF: 0.474)
- A108. **\*\*Zhang Jinfa**, J. Idowu, Robert Flynn, Sidney E. Hughs, Don C. Jones, and T. Wedegaertner. 2016. Registration of glandless ‘NuMex COT 15 GLS’ cotton. J. Plant Reg. 10: 223-227 (JIF: 0.474)
- A107. **\*\*Zhang J. F.**, R. Flynn, O. J. Idowu, T. Wedegaertner, and S. E. Hughs. 2016. Transgressive segregation in an Acala × Acala hybrid for the development of glandless cotton germplasm. J. Cotton Sci. 20: 145-153
- A106. **\*\*Zhang Jinfa**, M. Wu, J.W. Yu, X.L. Li, and W.F. Pei. 2016. Breeding potential of introgression lines developed from interspecific crossing between Upland cotton (*Gossypium hirsutum*) and *Gossypium barbadense*: heterosis, combining ability and genetic effects. PLoS One 11: e0143646 (JIF: 3.057)
- A105. **\*\*Sanogo S.**, and **J. F. Zhang\*\***. 2016. Resistance sources, resistance screening techniques and disease management for Fusarium wilt in cotton. Euphytica 207: 255-271 (JIF: 1.618)
- A104. Ma Q.F., M. Wu, C.H. Wu, W.F. Pei, X.L. Li, W.K. Wang, **J.F. Zhang**, J.W. Yu, and S.X. Yu. 2016. RNA-Seq-mediated transcriptome analysis of a fiberless mutant cotton and its possible origin based on SNP markers. PLoS One 11: e0151994 (JIF: 3.057)
- A103. Ma Qifeng, C. H. Wu, Man Wu, Wenfeng Pei, Wenkui Wang, Xingli Li, W. K. Wang, **Jinfa Zhang**, Jiwen Yu, and Shuxun Yu. 2016. Integrative transcriptome, proteome, phosphoproteome and genetic mapping reveals new aspects in a fiberless mutant of cotton. Sci. Rep. 6: 24485 (JIF: 5.228)
- A102. Wu Man, Liyuan Zhang, Xihua Li, Xiaobing Xie, Wenfeng Pei, Wenkui Wang, Jiwen Yu”, Shuxun Yu, and **Jinfa Zhang**. 2016. A comparative transcriptome analysis of two sets of backcross inbred lines differing in lint yield derived from a *Gossypium hirsutum* × *Gossypium barbadense* backcross inbred line population. Mol. Genet. Genomics 291: 1749-1767 (JIF: 2.622)

## 2015

- A101. **\*\*Zhang J. F.** 2015. Transgenic cotton breeding. In D. Fang and R. G. Percy (eds.) Cotton. ASA-CSSA-SSSA Monograph Series. Madison, WI (An invited book chapter) p. 229-253.
- A100. **\*\*Zhang Jinfa**, Jiwen Yu, Wenfeng Pei, Xingli Li, Joseph Said, Mingzhou Song, and Soum Sanogo. 2015. Genetic analysis of Verticillium wilt resistance in a backcross inbred line population and a meta-analysis of quantitative trait loci for disease resistance in cotton. BMC Genomics 16:577 (JIF: 3.867)
- A99. **\*\*Zhang J. F.**, S. Sanogo, Z. Y. Ma, and Y. Y. Qu. 2015. Breeding, genetics, and quantitative trait locus mapping for Fusarium wilt resistance in cotton. Crop Sci 55: 2435-2453 (JIF: 1.550)
- A98. Zeng Linghe, Benjamin T. Campbell, Efreem Bechere, Jane K. Dever, **Jinfa Zhang**, Andrea S. Jones, Tyson B. Raper, Steve Hague, Wayne Smith, Gerald O. Myers, and Fred M. Bourland. 2015. Genotypic and environmental effects on cottonseed oil, nitrogen, and gossypol contents in eighteen years Regional High Quality tests. Euphytica 206: 815-824 (JIF: 1.618)
- A97. Barrick B., R. Steiner, G. Picchioni, A. Ulery, and **J. F. Zhang\*\***. 2015. Salinity responses of selected introgression cotton grown in two soils. J. Cotton Sci. 19: 268-278
- A96. Sun Youping, Genhua Niu and **Jinfa Zhang**. 2015. Growth responses of an introgression cotton line and its parents cotton genotypes to controlled drought using an automated irrigation system. J. Cotton Sci. 19: 290-297



- A95. Abdelraheem Abdelraheem, Ezzat Mahdy, and **Jinfa Zhang\*\***. 2015. The first linkage map for a recombinant inbred line population of cotton (*Gossypium barbadense*) and its use in studies of PEG-induced dehydration tolerance. *Euphytica* 205: 941-958 (JIF: 1.618)
- A94. Said Joseph I., Joseph A. Knapka, Mingzhou Song, and **Jinfa Zhang\*\***. 2015. Cotton QTLdb: a cotton QTL database for QTL analysis, visualization, and comparison between *Gossypium hirsutum* and *G. hirsutum* x *G. barbadense* populations. *Mol. Genet. Genomics* 290: 1615-1625 (JIF: 2.622)
- A93. Said Joseph I., Mingzhou Song, Hantao Wang, Zhongxu Lin, Xianlong Zhang, David D. Fang, and **Jinfa Zhang\*\***. 2015. A comparative meta-analysis of QTL between intraspecific *Gossypium hirsutum* and interspecific *G. hirsutum* x *G. barbadense* populations. *Mol. Genet. Genomics* 290: 1003-1025 (JIF: 2.622)
- A92. Abdelraheem A., S. E. Hughs, D. C. Jones, and **J. F. Zhang\*\***. 2015. Genetic analysis and quantitative trait locus mapping of drought tolerance in cotton under PEG conditions. *Plant Breed.* 134: 111-120 (JIF: 1.543)
- A91. Mo H. J., X. Wang, Y. Zhang, G. Y. Zhang, **J. F. Zhang**, and Zhiying Ma. 2015. Cotton polyamine oxidase is required for spermine and camalexin signalling in the defence response to *Verticillium dahliae*. *The Plant J.* 83: 962-975. (JIF: 5.468)
- A90. Travis B. Cotton, Hien H. Nguyen, Joseph I. Said, Zhengyu Ouyang, **Jinfa Zhang**, and Mingzhou Song. 2015. Discerning mechanistically rewired biological pathways by heterogeneity analysis of system dynamics. *Sci. Rep.* 5: 9634 (JIF: 5.228)
- A89. Wu Man, Shu-Li Fan, Mei-Zhen Song, Ji-Wen Yu, Chao-You Pang, Jiang-Hui Wei, **Jinfa Zhang** and Shu-Xun Yu. 2014. Gene expression profiling in shoot apical meristem of *Gossypium hirsutum*. *Russian J. Plant Physiol.* 62: 684-694 (JIF: 0.737)

## 2014

- A88. **\*\*Zhang J. F.**, R. G. Percy, and J. C. McCarty Jr. 2014. Introgression genetics and breeding between Upland and Pima cotton- a review. *Euphytica* 198: 1-12 (JIF: 1.618)
- A87. **\*\*Zhang J. F.**, O. J. Idowu, R. Flynn, T. Wedegaertner, and S. E. Hughs. 2014. Genetic variation and selection within glandless cotton germplasm. *Euphytica* 198: 59-67 (JIF: 1.618)
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## 2017

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