

Curriculum vitae - Jun Qin (J. Qin)

Department of Crop and Soil Environmental Sciences,
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EDUCATION:

Ph.D. - Plant Genetics and Breeding, Hebei Agricultural University, Baoding, Hebei, China; Dissertation: “Genetic Background Analysis and Elite Gene Identification in Soybean Cultivar Suinong 14”. Supervisor: Guangmin Li, Zhiying Ma and Lijuan Qiu. 9/2005 – 6/2008.

M.S. - Plant Genetics and Breeding, Hebei Agricultural University, Baoding, Hebei, China; Thesis: “Winterness Analysis of Wheat and Its Regulation with Phytohormones in Huabei Areas”. Supervisor: Yukun Dong and Haibo Wang. 9/1995 – 7/1998.

B.S. - Plant Genetics and Breeding, Hebei Agricultural University, Baoding, Hebei, China. 9/1991 – 7/1995.

PROFESSIONAL EMPLOYMENT:

Professor, China Huang-Huai Regional GM-Soybean Testing and Commercialization Center, National Soybean Improvement Center Shijiazhuang Sub-Center, Institute of Food and Oil Crops, Hebei Academy of Agricultural and Forestry Sciences, Shijiazhuang, Hebei, China, 10/2010—present.

Associate professor, National Soybean Improvement Center Shijiazhuang Sub-Center, Institute of Food and Oil Crops, Hebei Academy of Agricultural and Forestry Sciences, Shijiazhuang, Hebei, China, 1/2006—9/2010.

Research associate, National Soybean Improvement Center Shijiazhuang Sub-Center, Institute of Food and Oil Crops, Hebei Academy of Agricultural and Forestry Sciences, Shijiazhuang, Hebei, China, Shijiazhuang, Hebei, China, 10/2003 – 12/2005.

Research associate, Institute of Genetics and Physiology, Hebei Academy of Agricultural and Forestry Sciences, Shijiazhuang, Hebei, China, 7/2000—9/2003.

Research assistant, Institute of Genetics and Physiology, Hebei Academy of Agricultural and Forestry Sciences, Shijiazhuang, Hebei, China, 7/1998—6/2000.

RESEARCH TRAINING EXPERIENCE:

Visiting scholar, Virginia Polytechnic Institute and State University, Blacksburg, Virginia, 6/2016 – present.

- Worked in soybean molecular breeding, with a focus on QTL mapping, SNPs identification, marker-assisted selection and whole genome selection. Supervisor: Bo Zhang

Visiting scholar, University of Arkansas, Fayetteville, Arkansas, 10/2014 – 6/2016.

- Worked in vegetable molecular breeding, with a focus on QTL mapping, SNPs identification, Genotyping by sequencing, Mark-assisted selection and whole genome selection. Supervisor: Ainong Shi

Postdoctoral Associate, Texas A&M University, College Station, Texas, 11/2008 –8/2010.

- Worked in plant genomics and molecular genetics, with a focus on heterosis and analysis of gene

expression by microarrays in maize. Supervisor: Hongbin Zhang and Hisashi koiwa

Visiting scholar, Biostatistics and Genetics, School of Agriculture and Biology, Shanghai Jiaotong University, Shanghai, China, 5/2007 – 7/2007.

- Worked in quantitative trait loci, genetic models, chromosome mapping, genetic crosses, computer Simulation. Supervisor: Runqing Yang

Visiting scholar, National Key Facility for Crop Gene Resources and Genetic Improvement, Key Laboratory of Crop Germplasm and Biotechnology, Institute of Crop Sciences, Chinese Academy of Agricultural Sciences, Beijing, China, 2/2004 – 8/2005.

- Focused on the construction and development of soybean core collection and mini core collection and analysis of their allelic diversity using SSRs, and by quantitative genetics and molecular mapping. Supervisor: Lijuan Qiu

JOURNAL REVIEWER

- PloSOne; Tropical Plant Biology; Scientia Agriculture Sinica; HortScience; Agronomy Journal; Phytopathology and Plant Protection

AWARDS AND HONORS:

- The First Prize of Scientific and Technological Invention in the Province of Hebei, China 2016: “Breeding and Application of Soybean Variety Jin58 and Jidou19 with high oil”
- The special allowance of the People's Government of Hebei, 2015.
- Youth Science and Technology Award of Hebei Province, 2015.
- The Excellent Staff Awards, Hebei Academy of Agricultural and Forestry Sciences Shijiazhuang, Hebei, China, 2015.
- The Excellent Staff Awards, Hebei Academy of Agricultural and Forestry Sciences Shijiazhuang, Hebei, China, 2014.
- The First Prize of Scientific and Technological Invention in the Province of Hebei, China 2014: “Breeding and Application of Soybean Variety Wuxing 2 Hao with high yielding and high oil”.
- The Excellent Staff Awards, Hebei Academy of Agricultural and Forestry Sciences Shijiazhuang, Hebei, China, 2013.
- Hebei new century “333 talent project” Second level suitable person, 2013.
- Sixth Session of Hebei Province Youth Science and Technology Innovation Honorable Mention, 2011.
- The Excellent Staff Awards, Hebei Academy of Agricultural and Forestry Sciences Shijiazhuang, Hebei, China, 2012.
- The Excellent Staff Awards, Hebei Academy of Agricultural and Forestry Sciences Shijiazhuang, Hebei, China, 2011.
- The First Prize of Scientific and Technological Progress in the Province of Hebei, China 2011: “Innovation and Utilization of Elite Germplasm of Soybean”.
- The Second Prize of Scientific and Technological Progress in the Province of Hebei, China 2007:

- “A High Oil-content Soybean Variety Jihuang 13”.
- The Second Prize of Scientific and Technological Progress in the Province of Hebei, China 2007: “The Identification, Development, and Utilization of Wheat Germplasm Lines with Abiotic Stress Tolerance”.
 - The Second Prize of Scientific and Technological Progress in the Province of Hebei, China 2005: “Development of Soybean Germplasm Lines without *Lipoxygenase Isozymes* and Cultivar Wuxing 1”.
 - The First Prize of Scientific and Technological Invention in the Province of Hebei, China 2002: “Method of Rapid Winter Wheat Breeding, with Five Generations per Year and Genetic Transformation of Genes for Resistance to Powdery Mildew”.
 - The First Prize of Scientific and Technological Progress in the Province of Hebei, China 1998: “The Method and Technology Well-suited in Creating Germplasm from Intergeneric Crosses between wheat and *Leymus Multicaulis*”.
 - Four Varieties Registered and Released from 2004 - 2006: Wuxing 2, NF58, Wuxing 3, and Jidou 17.
 - The Best Student Awards, Hebei Agricultural University, Baoding, Hebei, China, 2005-2008.
 - The Best Student Awards, Hebei Agricultural University, Baoding, Hebei, China, 1992-1994.
 - The First Prize in a Speech Contest, Institute of Food and Oil Crops, Hebei Academy of Agricultural and Forestry Sciences, Shijiazhuang, Hebei, China, 2011.
 - The First Prize in a Speech Contest, Institute of Food and Oil Crops, Hebei Academy of Agricultural and Forestry Sciences, Shijiazhuang, Hebei, China, 2005.

RESEARCH GRANT AWARDS AND INVOLVEMENT:

- Natural science fund for distinguished young scholars of Hebei Province “Study on Molecular Mechanism of Heterosis of soybean (*Glycine max*)” (C2014301035). Fund of RMB 300,000
- National Natural Science Foundation of China “Comparative Transcriptome Analysis of Hybrid and Its Parental Inbreds in Soybean (*Glycine max*)” (31100880). Fund of RMB 220,000.
- Key Project of Natural Science Foundation of Hebei Province “Genetic Background Analysis and Elite Genes Identification of Soybean Developed Cultivars in Huang-Huai Region” (C2012301020). Fund of RMB 100,000.
- Key Project of Basic Research of Hebei Province “Superior Gene Identification of High Yield Soybean” (12965516D). Fund of RMB 100,000.
- The Key Research Foundation for the Excellent Returned Overseas Chinese “Identification genes Related to Heterosis Using Microarray Analysis in *Glycine max*” (C2011006001). Fund of RMB 60,000.
- High Level Talent Innovation Project of Hebei Province “Genes Expression Profiling Analysis in Pod-filling Stage between Hybrid and Its Parental Inbreds in *Glycine max*” (F12E03002). Fund of RMB 100,000.

- Joint Research Fund of Hebei “Identification and Development of Wheat Germplasm Conferring Resistance to Sharp Eyespot” (03820176D). Fund of RMB 100,000.
- Science Fund for Young Scholars of Hebei Academy of Agriculture and Forestry Sciences “Mapping of Soybean Lipoxygenase Gene Using Microsatellites and Its Applications in Breeding” (A2006010103). Fund of RMB 45,000.
- Science Fund for Young Scholars of Hebei Academy of Agricultural and Forestry Sciences “Wheat Germplasm Enhanced by Anther Culture” (A03-3-04-04). Fund of RMB 20,000.

LABORATORY SKILLS:

- Molecular Biology - Experienced in molecular biology and genetics, including, but not limited to, cDNA and BAC library construction, Southern or Northern blot hybridization, PCR, RT-PCR, etc.
- Genomics - functional and comparative genomics, quantitative trait loci analysis, and association studies designed to evaluate genetic diversity in natural populations.
- Bioinformatics - Experienced in use and development of high-throughput bioinformatics tools for sequence, genetic, biochemical, and molecular characterization of genes and gene pathways.
- Biological software (Endnote, Java, Primer, DNAMAN, DNASTAR, Vector NTI, etc),
- Statistical software (SAS 9.0, SPSS, NTSYS, Structure, Treecon, TASSEL).

PUBLICATIONS:

1. **Jun Qin**, Ainong Shi, Beiquan Mou, Gehendra Bhattarai, Wei Yang, and Yuejin Weng (2017). Association mapping of aphid resistance in USDA cowpea (*Vigna unguiculata* L. Walp.) core collection and genetic diversity analysis of aphid resistant resources using SNPs. *Euphytica* doi:10.1007/s10681-016-1830-z.
2. Wei Yang, Ainong Shi, Jianbing Ma, Jim Correll, Michael Evans, Dennis Motes, Haizheng Xiong, Yuejin Weng, and **Jun Qin** (2017). Identification of the pathogen of powdery mildew disease on dandelions. *Australasian Plant Disease Notes*.
3. **J. Qin**, J.N. Zhang, F. Gu, J.H. Wang, F.M. Wang, C.Y. Yang, M.C. Zhang (2016). Population structure and association analysis of agronomic and qualitative traits in summer soybeans. *Journal of Crop Improvement* 30(5).
4. **Jun Qin**, Ainong Shi, Hai-zheng Xiong, Bei-quan Mou, Dennis Motes, Wei-guo Lu, J. Creighton Miller Jr., Douglas C. Scheuring, M. Ndambe Nzaramba, Yuejin Weng, Wei Yang (2016). Population structure analysis and association mapping of seed antioxidant content in USDA cowpea (*Vigna unguiculata* L. Walp.) core collection using SNPs. *Canadian J Plant Science*, Published on the web 9 June 2016, 10.1139/CJPS-2016-0090.
5. **Jun Qin**, Jianan Zhang, Duan Liu, Changcheng Yin, Fengmin Wang, Pengyin Chen, Hao Chen, Jinbing Ma, Bo Zhang, Jin Xu, Mengchen Zhang (2016). iTRAQ-based Analysis of Developmental Dynamics in the Soybean Leaf Proteome Reveals Pathways Associated with Leaf Photosynthetic Rate. *Mol Genet Genomics*, 1-11.
6. Haizheng Xiong, Ainong Shi, Beiquan Mou, **Jun Qin**, Dennis Motes, Jianbing Ma, Yuejin Weng, Wei Yang (2016). Genetic Diversity and Population Structure of Cowpea (*Vigna unguiculata* L. Walp) *PlosOne*. DOI:10.1371/journal.pone.0160941.

7. Shi, A., B. Mou, J. Correll, D. Motes, Y. Weng, **J. Qin**, and Y. Wei (2016). Association analysis of resistance to Verticillium wilt in spinach. *Australian J. of Plant Science*. AJCS 10(8):1188-1196
8. Ainong Shi, Beiquan Mou, Jim Correll, Steven T. Koike, Dennis Motes, **Jun Qin**, Yuejin Weng, Wei Yang (2016). Association Analysis and Identification of SNP Markers for Stemphylium Leaf Spot (*Stemphylium botryosum* f. sp. *spinacia*) Resistance in Spinach (*Spinacia oleracea*). *American Journal of Plant Sciences*. 7, 1600-1611.
9. J. Ma, A. Shi, B. Mou, M. Evans, J. Clark, D. Motes, J.C. Correll, H. Xiong, **J. Qin**, J. Chitwood, Y. Weng (2016). Association mapping of leaf traits in spinach (*Spinacia oleracea* L.) *Plant Breeding*, 135: 399–404.
10. Ainong Shi, Blair Buckley, Beiquan Mou, Dennis Motes, J. Bradley Morris, Jianbing Ma, Haizheng Xiong, **Jun Qin**, Wei Yang, Jessica Chitwood, Yuejin Weng, Weiguo Lu (2016). Association analysis of cowpea bacterial blight resistance in USDA cowpea germplasm. *Euphytica*. 208(1): pp 143-155.
11. **Jun Qin**, Ran Xu, Haichao Li, Chunyan Yang, Duan Liu, Zhangxiong liu, Lifeng Zhang, Weiguo Lu, Terrence Frett, Pengyin Chen, Lijuan Qiu, Mengchen Zhang (2015). Evaluation of Productivity and Stability of Elite Summer Soybean Cultivars in Multi-environment Trials. *Euphytica*. 206(3):759-773.
12. **J. Qin**, F.M Wang, F. Gu, J.H. Wang, Q. Chen, M.C. Zhang (2014). A genetic composition analysis of soybean sibling varieties Jidou17 and Jinf58. *Australian Journal of Crop Science* 8(5):791-798.
13. L.H. Xu, W.Y. Wang, **J. Qin**, D.Q. Shi, Y.L. Li, J. Xu (2014). Zinc improves salt tolerance by increasing reactive oxygen species scavenging capacity and reducing Na⁺ accumulation in wheat seedlings. *Biologia Plantarum*. 58(4): 751-757.
14. F.M. Wang, S.J. Zhao, J.H. Wang, F. Gu, Q.S. Zhao, C.Y. Yang, M.C. Zhang, **J. Qin*** (2014). Evaluation of Productivity and Component Factors of Soybean Cultivars in Different Stages of Hebei Province. *Soybean Science*. 33(6).
15. F.M. Wang, **J. Qin**, L. Yan, C. Bao, X. L. Shi, N. Xu, M. C. Zhang, C.Y. Yang (2014). Breeding of High-oil Soybean Cultivar Wuxing 2. *Soybean Science*. 33(4):449-450 (English abstract available).
16. Z.M. Ma, **J. Qin**, C.Y. Yang, R. Di, L. Yan, M.S. Zhang, Z.Q. Li, Y.P. Li, X.L. Shi, C. Bao, N. Xu, S.P. Feng, M.C. Zhang (2014). *Journal of Hebei Agricultural Sciences*, 18(2):52-59.
17. **J. Qin**, C. Scheuring, G. Wei, H. Zhi, M.P. Zhang, J.J. Huang, D. W. Galbraith, H.B. Zhang (2013) Identification and characterization of a repertoire of genes differentially expressed in developing top ear shoots between a superior hybrid and its parental inbreds in *Zea mays* L.. *Mol Genet Genomics* 288:691–705.
18. **J. Qin**, F. Gu, D. Liu, C. C. Yin, S.J. Zhao, H. Chen, J. N. Zhang, C.Y. Yang, X. Zhan, M.C. Zhang (2013), Proteomic analysis of elite soybean Jidou17 and its parents using iTRAQ-based quantitative approaches. *BMC Proteome Science*, 11:12.
19. Y.L. Li, Y. Zhang, D.Q. Shi, X. J. Liu, **J. Qin**, Q. Ge, L.H. Xu, X.L. Pan, W. Li, Y.Y. Zhu, J. Xu (2013). Spatial-temporal analysis of zinc homeostasis reveals the response mechanisms to acute

- zinc deficiency in *Sorghum bicolor*. *New Phytol.*
20. **J. Qin**, C.Y. Yang, F. Gu, Y.B. Zhang, Y. Feng, X.D. Tang, C.Y. Liu, M.C. Zhang (2013), Evaluation of Productivity and Stability of Soybean Cultivars in China's Huang-Huai-Hai Region. *Scientia Agricultura Sinica* 46(3):451-462.
 21. **J. Qin**, M.C. Zhang, W.Y. Chen, R.Z. Chang, L.J. Qiu (2013), Genetic Diversity Analysis of soybean Elite Cultivar Basing on Molecular and Phenotype Traits. *ACTA Agriculturae Boreali-sinica* 28(1):19-26.
 22. Y. Xu, F.M. Wang, S.J. Mo, F. Gu, **J. Qin** (2012), Research Status and Development Tendency of Vegetable Soybean in China. *Journal of Hebei Agricultural Sciences* 16(4):42-45.
 23. **J. Qin**, R.Q. Yang, Z.X. Liu, Y.F. Zhang, C.X. Jiang, W.B. Li, Y.H. Li, R.X. Guan, R.Z. Chang, L.J. Qiu (2010), Location and transmission of QTL for multiple traits in the pedigree of soybean cultivars. *Euphytica* 173(3):377-386.
 24. **J. Qin**, R.Q. Yang, C.X. Jiang, W.B. Li, Y.H. Li, R.X. Guan, R.Z. Chang, L.J. Qiu (2010), Discovery and transmission of functional QTL in the pedigree of an elite soybean cultivar Suinong 14. *Plant breeding* 129(3):235-242.
 25. R.X. Guan, **J. Qin**, J.S. Hu, W.X. Chen, R.Z. Chang, Z.X. Liu, L.J. Qiu (2009), Genetic composition of elite soybean cultivar Hefeng 25. *Acta Agronomica Sinica* 35(9): 1590–1596.
 26. **J. Qin**, Y.H. Li, R.Z. Chang, G.M. Li, Z.Y. Ma, L.J. Qiu (2009). Genetic structure and diversity of soybean germplasm in Heilongjiang province. *Acta Agronomica Sinica* 35(2): 228–238.
 27. **J. Qin**, Y.H. Li, M.C. Zhang, R.Z. Chang, G.M. Li, Z.Y. Ma, L.J. Qiu (2008). Analysis of genetic relationship among parents of elite soybean (*Glycine max*) cultivars Suinong 14 pedigree revealed by SSR markers. *Scientia Agricultura Sinica* 41(12):3999-4007.
 28. C.X. Yan, Z.Y. Ma, C.Y. Zhang, **J. Qin**, X.F. Gao, M.C. Zhang (2008). Detecting the deletion mutations of lipoxygenase in 5 soybean crosses by IEF-PAGE. *Journal of Anhui Agricultural Sciences* 36(16):6691-6694.
 29. **J. Qin**, W.Y. Chen, R.X. Guan, C.X. Jiang, Y.H. Li, Y.S. Fu, Z.X. Liu, M.C. Zhang, R.Z. Chang, L.J. Qiu (2006). Genetic contribution of foreign germplasm to elite Chinese soybean (*Glycine max*) cultivars revealed by SSR markers. *Chinese Science Bulletin* 51(9):1078-1084.
 30. **J. Qin**, C.X. Jiang, Z.X. Liu, Y.S. Fu, R.X. Guan, W.Y. Chen, Y.H. Li, M.C. Zhang, Y.L. Jing, R.Z. Chang, L.J. Qiu (2006). Genetic diversity and recombination of soybean cultivar Suisong 14 and its pedigree. *Hereditas* 28(11):1421-1427.
 31. C.H. Ma, J.Y. Li, X. Chen, **J. Qin**, S.G. Sun, X.L. Guo, Y.P. Zheng, G.M. Li (2006). Researching on breeding and resume function of corn multi-cytoplasm male steriling 6006. *Journal of Maize Sciences* 12(4): 45-48.
 32. **J. Qin**, R.X. Guan, M.C. Zhang, R.Z. Chang, L.J. Qiu (2005). Suinong and pedigree analysis using SSR marker. *Southwest China Journal of Agricultural Sciences*, 18:1361.
 33. C.X. Zai, C.H. Ma, **J. Qin**, L.Wang, X. Chen, G.M. Li (2004). The relations between conventional identification of induced disease resistance in plants and correlated enzymes chances, *Chinese Agricultural Science Bulletin* 20(5):222-224.
 34. J.F. Wei, **J. Qin**, C. Wang, D.J. Li, J.S. Sun (2004), Development and GISH identification of salt-tolerant translocation lines between Wheat and *Leymus multicaulis*. *Acta Agriculturae*

Boreali-Sinic, 19(1):40-43.

35. **J. Qin**, J.F. Wei, F.C. Fan (2004). Identification of the resistance to sharp eyespot and correlation analysis among different indexes in wheat germplasm. *Acta Agriculturae Boreali-Sinic*, 19: 171-174.
36. **J. Qin**, H.B. Wang (2003). The effectiveness of vernalization of immature embryos of winter wheat, *Acta Agriculturae Boreali-Sinica*. 17(6):143-143.
37. **J. Qin**, J.F. Wei, C.Z. Jiang, F.C. Fan (2003). Identification of the resistance of wheat germplasm to sharp eyespot. *Acta Agriculturae Boreali-Sinic*, 18(4): 114.
38. **J. Qin**, H.B. Wang, Y.K. Dong (2002). Studies on winterness degree in Huabei areas. *Acta Agriculturae Boreali-Sinic*, 44-49.
39. **J. Qin**, Y.K. Dong, H.B. Wang (2000). The research on wheat vernalization. *Journal of Hebei Agricultural Sciences* 4(4).
40. J.F. Wei, W. Li, **J. Qin**, H.M. Zhang (2000). The Selection and Genetic Study of the Pure Line from Intergeneric Hybridization of Wheat and *Leymus Multicaulis*. *Journal of Hebei Agricultural Sciences* 4(1).

Book Chapter:

41. M.C. Zhang, L. Zhang, X.Y. Liu, **J. Qin**, et al 2014, The modified soybean germplasm in Huang-huai-hai region. Agricultural Press of China, Beijing, China.
42. W.D Li, M.C. Zhang, **J. Qin**, et al. 2006. The Parameters for Summer Soybean and Varieties Adapted to the Huang-huai-hai Valley. Agricultural Science and Technology Press of China, Beijing, China.
43. M.C. Zhang, C.Y. Yang, **J. Qin**, et al. 2006. The Handbook of Elite Soybean Varieties and Required Cultivation Practices. Agricultural Science and Education Center of Sanxia Press, China.
44. **J. Qin**, 2004. The Handbook of Soybean Cultivation for High Grain Yields. Science and Technology Press of Hebei, China.

Submissions

45. **Jun Qin**, Jianan Zhang, Bo Zhang, Jinghua Wang, Fengmin Wang, Zhi Zheng, Ben Averitt, Pengyin Chen, Mengchen Zhang (2016). iTRAQ Protein Profile Analysis of Developmental Dynamics in Soybean [*Glycine max* (L.) Merr.] Leaves (submitted to J. Plos one).
46. Jinpeng Wang, **Jun Qin**, Pengchuan Sun, Xuelian Ma, Yinzhe Liu, Nanshan Yang, Sangrong Sun, Yuxian Li, Xiaojian Liu, Jigao Yu, Ruiyan Xia, Li Wang, Weina Ge, Zhenyi Wang, Xiaoming Song, Tianyu Lei, Lan Zhan, Dianchuan Jin, Yuxin Pan, Tao Liu, Ruyue Zhang, Beibei Jiao, Yue Xing, Dongcen Ge, Sainan Luo, Mengchen Zhang, Xiyin Wang (2016). Allo- rather than auto-polyploids play a major role in the establishing plant and yeast tribes (submitted to PNAS).
47. Benjamin Averitt, Gregory E. Welbaum, **Jun Qin**, Mengchen Zhang, Katy Rainy and Bo Zhang (2016). Evaluating Seed Treatments to Increase Field Emergence in Low- Phytic Acid Soybeans. (submitted to international Journal Agronomy)
48. Xiyin Wang, Jinpeng Wang, Pengchuan Sun, Yuxian Li, Yinzhe Liu, Jigao Yu, Xuelian Ma, Sangrong Sun, Nanshan Yang, Ruiyan Xia, Tianyu Lei, Xiaojian Liu, Beibei Jiao, Yue Xing, Weina Ge, Li Wang, Zhenyi Wang, Xiaoming Song, Min Yuan, Di Guo, Lan Zhang, Jiaqi Zhang, Dianchuan Jin,

Wei Chen, Yuxin Pan, Tao Liu, Ling Jin, Jinshuai Sun, Jiaxiang Yu, Rui Cheng, Xueqian Duan, Shaoqi Shen, **Jun Qin**, Mengchen Zhang, and Andrew Paterson (2016). Hierarchically aligning 10 legume genomes establishes a genus-level genomics platform (submitted to Plant Physiology)

49. Aveirtt, Benjamin; Shang, Chao; Rosso, M. Luciana; **Qin, Jun**; Zhang, Mengchen; Rainey, Katy Martin; Zhang, Bo (2016). Impact of mips1/lpa1 and lpa2 Alleles for Low Phytic Acid Content on Agronomic, Seed Quality and Seed Composition Traits of Soybean. (submitted to Crop Science)

ABSTRACTS PUBLISHED:

1. Ainong Shi, Beiquan Mou, Jim Correll, Dennis Motes, Yuejin Weng, **Jun Qin**, and Yang Wei. 2016. Association analysis of resistance to Verticillium wilt in spinach (submitted to ASHS-2016 Annual Conference on August 8-11 in Atlanta, GA) (<https://ashs.confex.com/ashs/2016/webprogram/Paper23617.html>).
2. Ainong Shi, Beiquan Mou, Jim Correll, Steven Koike, Lindsey du Toit, Dennis Motes, **Jun Qin**, Yuejin Weng, and Wei Yang. Association analysis of Stemphylium leaf spot Resistance in Spinach (submitted to ASHS-2016 Annual Conference on August 8-11 in Atlanta, GA) (<https://ashs.confex.com/ashs/2016/webprogram/Paper23607.html>).
3. Wei Yang, Ainong Shi, Jianbing Ma, Jim Correll, Michael Evans, Dennis Motes, Haizheng Xiong, Yuejin Weng, and **Jun Qin**. 2016. Identification of the pathogen of powdery mildew disease on dandelions (submitted to ASHS-2016 Annual Conference on August 8-11 in Atlanta, GA) (<https://ashs.confex.com/ashs/2016/webprogram/Paper23604.html>).
4. **Jun Qin**, Ainong Shi, Beiquan Mou, Yuejin Weng, Dennis Motes, and Wei Yang. 2016. Association mapping of aphid resistance in USDA cowpea core collection using SNPs (submitted to ASHS-2016 Annual Conference on August 8-11 in Atlanta, GA) (<https://ashs.confex.com/ashs/2016/webprogram/Paper23619.html>).
5. **Jun Qin**, Haizheng Xiong, Ainong Shi, Beiquan Mou, Dennis Motes, Weiguo Lu, Creighton Miller Jr., Douglas Scheuring, Ndambe Nzaramba, Yuejin Weng, and Wei Yang. 2016. Population structure analysis and association mapping of seed antioxidant content in USDA cowpea core collection using SNPs (submitted to ASHS-2016 Annual Conference on August 8-11 in Atlanta, GA) (<https://ashs.confex.com/ashs/2016/webprogram/Paper23605.html>).
6. Yuejin Weng, David Octor Moseley, Wei Yang, Waltram Second Ravelombola, **Jun Qin**, Dennis Motes, Pengyin Chen, and Ainong Shi. 2016. Evaluate Two Methods for Measuring Cowpea Seed Protein Content (submitted to ASHS-2016 Annual Conference on August 8-11 in Atlanta, GA) (<https://ashs.confex.com/ashs/2016/webprogram/Paper23601.html>).
7. Yuejin Weng, Ainong Shi, David Octor Moseley, Wei Yang, Waltram Second Ravelombola, **Jun Qin**, Dennis Motes, and Pengyin Chen. 2016. Evaluation of seed sucrose content in cowpea (submitted to ASHS-2016 Annual Conference on August 8-11 in Atlanta, GA) (<https://ashs.confex.com/ashs/2016/webprogram/Paper24778.html>).

CONFERENCE AND SYMPOSIUMS

1. Ainong Shi, Beiquan Mou, Jim Correll, **Jun Qin**, Yuejin Weng, Dennis Motes, Wei Yang. 2017. Genetic Diversity and Association Analysis in Spinach. Plant & Animal Genomes XXV, San diego, CA, USA, January 14-19.
2. **Jun Qin**, Ainong Shi, Beiquan Mou, Yuejin Weng, Dennis Motes, and Wei Yang. 2016. Association mapping of aphid resistance in USDA cowpea core collection using SNPs. ASHS-2016 Annual Conference on August 8-11 in Atlanta, GA.
3. **Jun Qin**, Haizheng Xiong, Ainong Shi, Beiquan Mou, Dennis Motes, Weiguo Lu, Creighton Miller Jr., Douglas Scheuring, Ndambe Nzaramba, Yuejin Weng, and Wei Yang. 2016. Population structure analysis and association mapping of seed antioxidant content in USDA cowpea core collection using SNPs. ASHS-2016 Annual Conference on August 8-11 in Atlanta, GA.
4. Ainong Shi, Beiquan Mou, Jim Correll, Dennis Motes, Yuejin Weng, **Jun Qin**, and Yang Wei. 2016. Association analysis of resistance to Verticillium wilt in spinach. ASHS-2016 Annual Conference on August 8-11 in Atlanta, GA.
5. Ainong Shi, Beiquan Mou, Jim Correll, Steven Koike, Lindsey du Toit, Dennis Motes, **Jun Qin**, Yuejin Weng, and Wei Yang. Association analysis of Stemphylium leaf pot Resistance in Spinach. ASHS-2016 Annual Conference on August 8-11 in Atlanta, GA.
6. Wei Yang, Ainong Shi, Jianbing Ma, Jim Correll, Michael Evans, Dennis Motes, Haizheng Xiong, Yuejin Weng, and **Jun Qin**. 2016. Identification of the pathogen of powdery mildew disease on dandelions. ASHS-2016 Annual Conference on August 8-11 in Atlanta, GA.
7. Yuejin Weng, David Octor Moseley, Wei Yang, Waltram Second Ravelombola, **Jun Qin**, Dennis Motes, Pengyin Chen, and Ainong Shi. 2016. Evaluate Two Methods for Measuring Cowpea Seed Protein Content. ASHS-2016 Annual Conference on August 8-11 in Atlanta, GA.
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9. **J. Qin**, C.C. Yin, D. Liu, F. Gu, H. Chen, S.J. Mo, C.Y. Yang, Z. Xu, M.C. Zhang. Proteomics Analysis for the Elite Soybean Jidou17 and Its Parents Using iTRAQ-based Quantitative Approaches. The World Soybean Research Conference IV February 2013.
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