**JIANPING WANG, PH.D**

Associate Professor

Department of Agronomy; Genetics Institute; Plant Molecular and Cellular Biology Program

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**EDUCATION**

2005 Ph.D. Plant Breeding and Genetics Michigan State University

1997 M.S. Plant Breeding and Genetics China Agricultural University

1994 B.A. Agronomy China Agricultural University

**EMPLOYMENT**

2017-Present Associate Professor, Agronomy Department, Plant Molecular and Cellular Biology Program, and Genetics Institute, University of Florida, Gainesville, FL.

2010-2017 Assistant Professor, Agronomy Department, Plant Molecular and Cellular Biology Program, and Genetics Institute, University of Florida, Gainesville, FL.

2008-2010 Postdoctoral Research Associate, Crop Science Department, University of Illinois at Urbana – Champaign, Urbana, IL.

2005-2008 Postdoctoral Research Associate, Department of Plant Biology, University of Illinois at Urbana – Champaign, Urbana, IL

2000-2005 Graduate Research Assistant, Department of Crop and Soil Sciences, Michigan State University, East Lansing, MI.

1997-2000 Assistant Researcher, Institute of Crop Sciences Research, Beijing Academy of Agricultural and Forest Sciences, Beijing, P.R. China.

1994-1997 Graduate Research Assistant, Department of Plant Breeding and Genetics, China Agricultural University, Beijing, P.R. China.

**AREAS OF SPECIALIZATION**

Plant genetics

Structural and functional genomics

Bioinformatics

Molecular breeding

Plant molecular biology

Plant disease resistance

Legume symbiosis/nodulation

Biomass

**TEACHING**

2014-Present: AGR4304/AGR6932 – Plant Chromosomes and Genomes, Every even year spring semester, University of Florida.

2013-Present: PLS4941 – Practical Work Experience in Plant Science; Requested as needed

2013-Present: AGR4911 – Supervised Research in Agronomy and the Plant Science Major; Requested as needed

2014-Present: AGR6940 – Supervised Teaching. Requested as needed

2012-Present: AGR6905 – Sugarcane (or Peanut) Genetics and Genomics, a special topic. Requested as needed

2010-Present: AGR 3303 – Genetics, every summer semester, University of Florida

2010-Present: AGR 4905 – Undergraduate Independent Study, every semester as needed, University of Florida

**ADVISING AND SUPERVISING**

**Postdoctoral Associates and Visiting Scientists**

2019-2020: Dr. Qinjian Liu, Visiting Scientist, Associate Professor, Biotechnology Center, Guangdong Academy of Agricultural Sciences, China

2019-2020: Hongbo Liu, Visiting Scientist, Associate Professor, Sugarcane Research Institute, Yunnan Academy of Agricultural Sciences, China

2018-2019: Dr. Lei Tian, Visiting Scientist, Associate Professor, Ningxia University, Yinchuan, Ningxia, China.

2017-2018: Dr. Hongmei Shu, Visiting Scientist, Associate Professor, Jiansu Academy of Agricultural Sciences, Nanjing, Jiangsu, China.

2016-2019: Dr. Xiping Yang, Postdoc Associate, Agronomy, University of Florida.

2015-2016: Dr. Hai Zhou, Postdoc Associate, Agronomy, University of Florida.

2015-2015: Dr. Lixia Liu, Visiting Scientist, Associate Professor, Dezhou University, Shandong, China.

2013-2014: Dr. Jingsheng Xu, Visiting Scientist, Associate Professor, Fujian Agriculture and Forestry University, Fujian, China

2013-2014: Dr. Fengxia Liu, Visiting Scientist, Associate Professor, China Agricultural University, Beijing, China.

2013-2014: Dr. Lubin Tan, Visiting Scientist, Associate Professor, China Agricultural University, Beijing, China.

2012-2016: Dr. Jian Song, Postdoc Associate, Agronomy, University of Florida.

2012-2013: Dr. Yolanda Lopes, Postdoc Associate, Agronomy, University of Florida.

2011-2013: Dr. Spurthi Nayaka, Postdoc Associate. Agronomy, University of Florida.

**Senior Molecular Biologist and lab technician**

2012-Present: Dr. Liping Wang, Agronomy, University of Florida

2010-2011: Jeff Seib, Agronomy, University of Florida

**Graduate Students**

2021-Present: Jade Boyd, Ph.D. student, Plant Molecular and Cellular Biology program, University of Florida. (Advisor)

2021-Present: Samantha Victores, M.S. student, Agronomy Department, University of Florida. (Advisor)

2021-Present: Yupeng Zhou, M.S. student, Agronomy Department, University of Florida. (Advisor)

2021-Present: Jordon McBreen, Ph.D. student, Agronomy, University of Florida (Committee member)

2020-Present: Yichun Wang, M.S. student, Agronomy Department, University of Florida. (Advisor)

2019-Present: Jesus Preciado, Ph.D. student, PMCB, University of Florida (Committee member)

2019-Present: Eleanor Brant, Ph.D. student, Agronomy, University of Florida (Committee member)

2019-Present: Moni Qiande, Ph.D. student, Agronomy, University of Florida (Committee member)

2018-Present: Daniela Cárdenas, Ph.D. student, Plant Pathology, University of Florida (Committee member)

2017-Present: Marco Geyzueta Altamirano, Ph.D. student, Agronomy, University of Florida (Committee member)

2017-Present: David May, Ph.D. student, Agronomy, University of Florida (Committee member)

2017-2021: Zifan Zhao, Ph.D. student, Agronomy, University of Florida (Advisor).

2017-2021: Ziliang Luo, Ph.D. student, Agronomy, University of Florida (Advisor).

2017-2019: Matthew Schneider, M.S. student, Agronomy, University of Florida (Committee member)

2016-2017: Zifan Zhao, M.S. student, Agronomy, University of Florida (Advisor).

2015-2018: Muhsin Avci, M.S. student, Agronomy, University of Florida (Committee member)

2015-2020: David Friedman, M.S. student, Genetics and Genomics Program, University of Florida (Committee member)

2014-2018: Dev Paudel, Ph.D. student, Agronomy Department, University of Florida (Co-advisor)

2014-2018: James Maku, Ph.D. student, Agronomy Department, University of Florida (Advisor)

2014-2018: Ze Peng, Ph.D student, Agronomy Department, University of Florida (Advisor)

2013-2016: Saroj Parajuli, Ph.D. student, Agronomy, University of Florida (Committee member)

2013-2016: Newton Kilasi, Ph.D. student, Horticulture Sciences, University of Florida (Committee member)

2013-2015: Bertha Nguku, M.S. student, Agronomy Department, University of Florida (Committee member)

2012-2016: Xiping Yang, Ph.D. student, Agronomy Deaprtment, University of Florida (Advisor)

2012-2014: Ze Peng, M.S. student, Agronomy Department, University of Florida (Advisor)

2012-2015: Hugo Dermawan, M.S. student, Agronomy Department, University of Florida (Committee member)

2012-2015: Wenlan Tian, Ph.D. student, Environmental Horticulture, University of Florida (Co-advisor)

2011-2016: Yu-Chien Tseng, Ph.D. student, Agronomy Department, University of Florida (Co-advisor)

2011-2016: Yih-Feng Hsieh, Ph.D. student, PMCB, University of Florida (Advisor)

2011-2017: Norma Flor, Ph.D. student, Agronomy Department, University of Florida (Committee member)

2011-2015: Yang Zhao, Ph.D. student, Agronomy, University of Florida (Committee member)

2011 Fall: Mathew Citarella, Ph.D. student, Genetics and Genomics, University of Florida (Rotation advisor)

**SERVICE**

**Reviewer for Scholarly Journals**

2007-Present reviewers for Plant Genome, Plant Breeding, Crop Science, BMC Plant Biology, Plant Molecular Biology, Agronomy Journal, Plos One, Molecular Breeding, Molecular Biology Report, BMC genomics, Journal of Plant Biotechnology. Tropical Plant Biology, Functional Plant Biology, Plant Disease, Journal of Experimental Botany, Frontiers in Plant Science, Molecular Ecology Resources, Scientific Reports, Frontiers in Microbiology, Hereditas

**Editorial board of scholarly journals**

2019-Present: Associate Editor, Frontiers in Genetics

2017-Present: Guest associate editor, Frontiers in Plant Science

2013-2017: review editor, Frontiers in Plant Science

**Activities in the profession**

2020: Vice President. Site Selection Committee, American Peanut Research and Education Society.

2017: Judge, Graduate Student Poster Competition, C-1 Plant Breeding and Genetics, Crop Science Society of America.

2017: Judge, Graduate Student Poster Competition, Bioenergy Systems, American Society of Agronomy.

2017-2018: Panalist, Career Development Grant panel, American Association of University Women.

2017-2018: Member, Sigma Xi Honor Society, University of Florida Chapter

2016-Present: Member, Peanut Germplasm Committee, American Peanut Research and Education Society.

2016: Chair, Graduate Student Oral Presentation Competition Section at 46th Annual Joint Meeting of American Society of Sugar Cane Technologists.

2015-2018: Member, American Peanut Research and Education Society, Joe Sugg Graduate Student Award Committee

2015-2018: Member, American Peanut Research and Education Society, Publications and Editorial Committee

2013-2015: Member, C451 Crop Science Research Award Committee

2012-2014: Member, Honor Society of Agriculture, Gamma Sigma Delta at the University of Florida

2012-2014: Mentor, Golden Opportunity Scholars program, ASA-CSSA-SSSA

2010-Present: Member, Agronomy Society of America

2011-Present: Member, American Peanut Research and Education Society

2010-Present: Member, American Society of Plant Biologists

2010-Present: Member, Crop Science Society of America

**Service at University of Florida**

2021-Present: Member, Search Committee of Agronomy Department Chair,

2020-Present: Memer, Department lecucturer (Dr. James Estroda) mentoring committee.

2019-Present: Interim Director, Plant Science Program, CALS

2018: Member,Plant Science lecturer recruiting committee.

2017-Present: Member, Junior Faculty (Dr. Esteban Rios) mentoring committee.

2017-2019: Chair, Peer Evaluation Committee of AGR4320/5321 Genetic Improvement of Plants/Plant Breeding

2017-2019: Chair, Peer Evaluation Committee of AGR3303 Genetic.

2017-2022: Member, Agronomy graduate curriculum review committee.

2017-2019: Member, The CALS Undergraduate Scholarships and Leadership Awards Committee

2017-2020: Department representative, IFAS Faculty Assembly.

2015-2016: Chair, Agronomy Department Award Committee

2014-2016: Member, Infrastructure Committee.

2014-2015: Chair, Peer Evaluation Committee of AGR4320/5321 Genetic Improvement of Plants/Plant Breeding

2014-2017: Member, Agronomy Department Infrastructure Committee.

2014-2015: Poster judge, UF Graduate Student Research Day.

2013-2015: Member, an ad hoc faculty committee for Plant Science Major merging

2013, 2015: Member, Florida Genetics Symposium poster judging committee

2013: Member, PMBI review committee for 2013 PMBI award.

2013: Chair, Teaching Peer Evaluation Committee of AGR 3303 (Genetics)

2012-2013: Member, World Food Crop Breeder faculty search committee

2012-Present: Member, Agronomy Undergraduate Curriculum Committee

2012-Present: Advisor, Plant Genetics specialization in Plant Science Major

2012: Member, Search Committee for non-tenure track Scientist in Agronomy department.

2011-2012: Member, PMCB Admissions and Recruitment Committee

2011-Present: Mentor, University Minority Mentor Program (UMMP)

2011-Present: Member, Peanut Cultivar Release Advisory Committee

2011-Present: Member, Awards and Recognition Committee

2011-Present: Member and graduate faculty, Agronomy Department

2011-Present: Member and graduate faculty, Plant Molecular and Cellular Biology (PMCB) Program.

2011 – Present Member and graduate faculty, Genetics Institute.

**REFEREED PUBLICATIONS** (\*: equal contributor)

**2021 (5)**

100. Zhang X.\*, M. K. Pandey\*, **J. Wang\***, K. Zhao, X. Ma, Z. Li, K. Zhao, F. Gong, B. Guo, R. K. Varshney and D. Yin. 2021. Chromatin spatial organization of wild type and mutant peanuts reveals high-resolution genomic architecture and interaction alterations. Genome Biology, 22:315. <https://doi.org/10.1186/s13059-021-02520-x>

1. Zhao Y., M. Feng, Dev Paudel (p), T. Islam, A. Momotaz, Z. Luo (g), Z. Zhao (g), N. Wei, S. Li, Q. Xia, B. Kuang, X. Yang (p), **J. Wang.**2021. Advances in genomics approaches shed light on crop domestication. Plants. 2021, 10(8), 571. [doi.org/10.3390/plants10081571](https://doi.org/10.3390/plants10081571)

98. Sinche M., B. Kannan, D. Paudel (g), C. Corsato, Y. Lopez (p), **J. Wang**, F. Altpeter. 2021. Development and characterization of a napier grass (*Cenchrus purpureus* Schumach) mapping population for flowering time- and biomass-related traits reveal individuals with exceptional potential and hybrid vigor. GCB Bioenergy. 2021. 13:1561–1575. DOI: 10.1111/gcbb.12876

97. You Q. (&), S. Sood, Z. Luo (g), H. Liu (&), M. S. Islam, M. Zhang, **J. Wang.** Identifying genomic regions controlling ratoon stunting disease resistance in Sugarcane (*Saccharum* spp.) clonal F1 population. The Crop Journal. 2021. In press. <https://doi.org/10.1016/j.cj.2020.10.010>.

1. Peng Z. (g), L. Tan (p), H. Chen, H. Shu (&), R. K. Varshney, Z. Zhou, Z. Zhao (g), Z. Luo (g), A. Chitikineni, L. Wang (&), J. Maku (g), Y. López (p), M. Gallo, H. Zhou (p), **J. Wang**. Mendelian and Non-Mendelian Inheritance of Symbiosis Genes in an Allotetraploid Legume Crop. Journal of Experimental Botany. 72 (4): 1104–1118. <https://doi.org/10.1093/jxb/eraa505>

**2020 (14)**

1. Shu H. (&), Z. Luo (g), Z. Peng (g), **J. Wang**. CRISPR/Cas9-Mediated Mutagenesis of *AhNFR1* and *AhNFR5* Genes in Peanut Reveals Their Functions during Nodule Formation. BMC Plant Biology. 2020. 20(1):417.
2. Yao W., C. Li, S. Lin, **J. Wang**, B. Zhou, T. Jiang. Transcriptome analysis of salt-responsive and wood-associated NACs in *Populus simonii × Populus nigra*. BMC Plant Biololgy, 2020. 20, 317. <https://doi.org/10.1186/s12870-020-02507-z>
3. Tonnis B., M. L. Wang, X. Li, **J. Wang**, N. Puppala, S. Tallury, and J. Yu. Peanut *FAD2* Genotype and Growing Location Interactions Significantly Affect the level of Oleic Acid in Seeds. Journal of the American Oil Chemists Society. 2020. 97: 1001–1010. doi: 10.1002/aocs.12401.
4. Latif S. (&), L. Wang (&), J. Khan, Z. Ali, S. K. Sehgal, M. A. Babar, **J. Wang**, U. M. Quraishi1. Deciphering the role of Stay Green Trait to mitigate terminal heat stress in Bread Wheat. Agronomy, 2020. 10(7), 1001. [doi: org/10.3390/agronomy10071001](https://doi.org/10.3390/agronomy10071001)
5. Yao, W., D. Zhang, B. Zhou, **J. Wang**, R. Li, T. Jiang. Over-expression of poplar NAC15 gene enhances wood formation in transgenic tobacco. BMC Plant Biology.2020. 20,1**-**12. https://doi.org/10.1186/s12870-019-2191-2
6. Boukari W., D. Filloux, J-H. Daugrois, E. Fernandez, D. Mollov, C. Kaye, M. Hincapie, A. Sanchez, **J. Wang**, P. Roumagnac, P. Rott. Molecular detection of sugarcane striate virus and sugarcane white streak virus and their prevalence in the Miami World Collection of sugarcane and related grasses. Plant Pathology. 2020. 69 (6): 1060-1069. doi: 10.1111/ppa.13192.
7. Hanson E. (u), H. Zhou (p), S. Tallury, X. Yang (p), D. Paudel (g), B. Tillman, **J. Wang**. Identifying chromosomal introgressions from a wild species *Arachis diogoi* into interspecific peanut hybrids. Plant Breeding. 2020. 139 (5), 969-976. doi: 10.1111/PBR.12828.
8. Peng Z.(g), Z. Zhao (g), J. P. Clevenger, Y. Chu, D. Paudel (g), P. Ozias-Akins, **J. Wang**. Single nucleotide polymorphism identification from sister recombinant inbred lines reveals candidate genomic regions controlling peanut nodulation. Frontiers in Genetics. 2020.11:222. doi: 10.3389/fgene.2020.00222.
9. Sharma V., S. Bhattacharyya, R. Kumar, A. Kumar, F. Ibañez, **J. Wang**, B. Guo, H. K. Sudini, S. Gopalakrishnan, M. DasGupta, R. K. Varshney, M. Pandey. Molecular basis of regulations for root nodule symbiosis between Bradyrhizobium and ‘crack-entry’ legume groundnut (*Arachis hypogaea*). Plants. 2020. 9, 276. doi:10.3390/plants9020276.
10. Yang X. (p), Z. Luo (g), S. Sood, J. Todd, **J. Wang**. Genome-wide association study of multiple yield components in a diversity panel of polyploid sugarcane (*Saccharum* spp.). The Plant Genome. 2020. 13: e20006. doi.org/10.1002/tpg2.20006.
11. PaudelD (g)., F. Liu (&), L. Wang (&), M. Crook,S. Maya (u),Z. Peng (g), K. Kelley, J. Ané, **J. Wang**. Isolation, characterization, and complete genome sequence of a *Bradyrhizobium* strain Lb8 from nodules of peanut utilizing crack entry infection. Frontiers in Microbiology. 2020.11: 93. doi: 10.3389/fmicb.2020.00093.
12. Luo Z. (g)., R. Cui, C. Chavarro, Y.Tseng (g), H. Zhou (p), Z. Peng (g), Y. Chu, X. Yang (g), Y. Lopez (p), B. Tillman, N. Dufault, T. Brenneman, T. G. Isleib, C. Holbrook, P. Ozias-Akins, **J. Wang**. Mapping quantitative trait loci (QTL) and estimating the epistasis controlling stem rot resistance in cultivated peanut (*Arachis hypogaea*). Theoretical and Applied Genetics. 2020. 133:1201–1212. doi: 10.1007/s00122-020-03542-y.

83. Meng Z., J. Han, Y. Lin, Y Zhao, Q. Lin, X. Ma, **J. Wang**, M. Zhang, L. Zhang, Q. Yang, K. Wang. Characterization of a *Saccharum spontaneum* with a basic chromosome number of x=10 provides new insights on genome evolution in genus *Saccharum*. Theoretical and Applied Genetics. 2020. 133(1):187-199. doi.org/10.1007/s00122-019-03450-w

82. Huang L., G. Feng, H. Yan, Z. Zhang, B. S. Bushman, **J. Wang**, A. Bombarely, M. Li, Z. Yang, G. Nie, W. Xie, L. Xu, P. Chen, X. Zhang, W. Jiang. Assembly of the orchardgrass genome provides insights into its genome evolution and flowering time regulation. Plant Biotechnology Journal. 2020. 18(2):373-388. doi: 10.1111/pbi.13205.

**2019 (9)**

81. Olatoye M. O., L. V. Clark, **J. Wang**, X. Yang (g), T. Yamada, E. J. Sacks, A. E. Lipka. Evaluation of genomic selection and marker-assisted selection in Miscanthus and energycane. Molecular Breeding. 2019. 39:171. doi.org/10.1007/s11032-019-1081-5.

1. Li C., W. Yao, **J. Wang**, J. Wang, Y Ai, H. Ma, Y. Zhang. A novel effect of glycine on the growth and starch biosynthesis of storage root in sweetpotato (Ipomoea batatas Lam.)*.* Plant Physiology and Biochemistry. 2019. 144:395-403.

79. Chen L., R. VanBuren, M. Paris, H. Zhou, X. Zhang, C. M. Wai, H. Yan, S. Chen, M. Alonge, S. Ramakrishnan, Z. Liao, J. Liu, J. Lin, J. Yue, Z. Lin, J. Zhang, L. Huang, H. Wang, T. Hwa, S. Kao, J. Y. Choi, A. Sharma, R. Singh, J. Song (p), L. Wang, W. C. Yim, J. C. Cushman, R. E. Paull, T. Matsumoto, Y. Qin, Q. Wu, **J. Wang**, Q Yu, J Wu, S Zhang, P. Boches, C. Tung, M. Wang, G. C. d’Eeckenbrugge, G. M. Sanewski, M. D. Purugganan, M. Schatz, J. L. Bennetzen, C. Lexer, R Ming. The Bracteatus Pineapple Genome and Domestication of Clonally Propagated Crops. Nature Genetics. 2019. 51 (10), 1549-1558 doi: 10.1038/s41588-019-0506-8.

78. Yang X. (p), S. Sood, Z. Luo (g), J. Todd, **J. Wang**. 2019. Genome-wide association studies identify resistance loci to orange rust and yellow leaf virus diseases in a diversity panel of polyploid sugarcane (Saccharum spp.). Phytopathology. 109(4):623-631. doi:[10.1094/PHYTO-08-18-0282-R](https://doi.org/10.1094/PHYTO-08-18-0282-R).

77. You Q. (g), X. Yang (p), Z. Peng (g), M. S. Islam, S. Sood, Z. Luo (g), J. Comstock, L. Xu, **J. Wang**. Development of an Axiom Sugarcane100K SNP array for high-resolution genetic map construction and QTL identification. Theoretical and Applied Genetics. 2019. 132 (10), 2829-2845. doi: 10.1007/s00122-019-03391-4

76. Evans D. L., S. V. Joshi, **J. Wang**. Whole Chloroplast and Gene Locus Phylogenies Reveal the Taxonomic Placement and Relationship of *Tripidium* (Panicoideae: Andropogoneae) to Sugarcane. BMC Evolutionary Biology. 2019. 19:33.

75. Zhuang W.\*, H. Chen\* , M. Yang\*, **J. Wang\***, M. Pandey, C. Zhang, W. Chang, L. Zhang, X. Zhang, R. Tang, V. Garg, X. Wang, H. Tang, C. Chow, D. Wang, A. W. Khan, Y. Deng, Q. Yang, J. Wang, T. Cai, P. Bajaj, K. Wu , B. Guo , X. Zhang , J. Li , F. Liang, J. Hu, B. Liao, S. Liu, A. Chitikineni, H. Yan, Y. Zheng, S. Shan, Q. Liu, D. Xie, Z. Wang, S. A. Khan, N. Ali, C. Zhao, X. Li , Z. Luo (g), S. Zhang, R. Zhuang, Z. Peng (g), S. Wang, G. Mamadou, Y. Zhuang, Z. Zhao (g), W. Yu, F. Xiong, W. Quan, M. Yuan, Y. Li, H. Zou, H. Xia , L. Zha, J. Fan, J. Yu, W. Xie, J. Yuan, K. Chen, S. Zhao, W. Chu, Y. Chen, P. Sun, F. Meng, T. Zhuo, Y. Zhao, C. Li, G. He, Y. Zhao, C. Wang, K. K. Polavarapu, R. Pan, A. Paterson, X. Wang, R. Ming, R. Varshney. The Arachis hypogaea genome elucidates legume karyotypes, polyploid evolution and crop domestication. Nature Genetics. 2019. 51, 865-876.

74. Yang X. (p), J. Todd, R. Arundale, J.B. Binder, Z. Luo (g), M. Islam, S. Sood, **J. Wang**. Identifying loci controlling fiber composition in polyploid sugarcane (*Saccharum* spp.) through genome-wide association study. Industrious Crops and Products. 2019. 130: 598-605. doi: 10.1016/j.indcrop.2019.01.023

73. Yang X. (p), J. Song (p), J. Todd, Z. Peng (g), D. Paudel (g), Z. Luo (g), X, Ma, Q. You (g), E. Hanson (u), Z. Zhao (g), Y. Zhao, J. Zhang, R. Ming, **J. Wang**. Target enrichment sequencing a germplasm diversity panel reveals genome compositions of ancient and modern hybrids and signatures of adaptation and selection in sugarcane (*Saccharum* spp.), a “sweet” crop with “bitter” genomes. Plant Biotechnology Journal. 2019. 17 (2), 488-498. doi: 10.1111/pbi.12992

**2018 (22)**

72. **Wang J.** S. U. Andersen, P. Ratet. Editorial: Molecular and Cellular Mechanisms of the Legume-Rhizobia Symbiosis. Frontiers in Plant Science. 2018. 9:1839. doi: 10.3389/fpls.2018.01839

71. Hu W., X. Hua, Q. Zhang, **J. Wang**, Q. Shen, X. Zhang, K. Wang, Q. Yu, Y. Lin, R. Ming, J. Zhang. New insights into the evolution and functional divergence of the SWEET family in *Saccharum* based on comparative genomics. BMC Plant Biology. 2018. 18(1):270. doi: 10.1186/s12870-018-1495-y.

70. Zhuang M., Z. Zhang, Q. Fang, T. Yan, Y. Wang, W. Huang, Y. Huang, Z. Li, Q. Yu, **J. Wang**, K. Wang. Comprehensively characterizing the cytological features of *Saccharum spontaneum* by the development of a complete set of chromosome-specific oligo probes. Frontiers in Plant Sciences. 2018. 9:1624. doi: 10.3389/fpls.2018.01624.

69. Zhang J.\*, X. Zhang\*, H. Tang\*, Q. Zhang\*, X. Hua, X. Ma, F. Zhu, T. Jones, X. Zhu, J. Bowers, C. Wai, C. Zheng, Y. Shi, S. Chen, X. Xu, J. Yue, D. Nelson, L. Huang, Z. Li, H. Xu, D. Zhou, Y. Wang, W. Hu, J. Lin, Y. Deng, N. Pandey, M. Mancini, D. Zerpa, J. K Nguyen, L. Wang, L. Yu, Y. Xin, L. Ge, J. Arro, J. O. Han, S. Chakrabarty, M. Pushko, W. Zhang, Y. Ma, P. Ma, M. Lv, F. Chen, G. Zheng, J. Xu, Z. Yang, F. Deng, X. Chen, Z. Liao, X. Zhang, Z. Lin, H. Lin, H. Yan, Z. Kuang, W. Zhong, P. Liang, G. Wang, Y. Yuan, J. Shi, J. Hou, J. Lin, J. Jin, P. Cao, Q. Shen, Q. Jiang, P. Zhou, Y. Ma, X. Zhang, R. Xu, J. Liu, Y. Zhou, H. Jia, Q. Ma, R. Qi,Z. Zhang, S. R. Dhungana, S.E. Huss, X. Yang(g), A. Sharma, J.H. Trujillo, M. C. Martinez, M. Hudson, J. J. Riascos, M. Schuler, L.Q. Chen, D. M. Braun, L. Li, Q. Yu, **J. Wang**, K. Wang, M.C. Schatz, D. Heckerman, M. V. Sluys, G. M. Souza,P. H. Moore, D. Sankoff, R. VanBuren, A. H. Paterson, C. Nagai, , R. Ming. Allele-defined genome of the autopolyploid sugarcane *Saccharum spontaneum* L. Nature Genetics. 2018. 50 (11), 1565-1573. doi: 10.1038/s41588-018-0237-2.

68. Feng G., L. Xu, **J. Wang**, G. Nie, B. BS, W. Xie, H. Yan, Z. Yang, H. Guan, L. Huang, and X. Zhang. Integration of small RNAs and transcriptome in *Dactylis glomerata* provides insights into vernalization response. BMC Genomics. 2018. 19:727. doi.org/10.1186/s12864-018-5104-0

67. Paudel D. (g), B. Kannan, X. Yang, (p) K. Harris-Shultz, M. Thudi, R. Varshney, F. Altpeter, **J. Wang**. Surveying the genome and constructing a high-density genetic map of napiergrass (*Cenchrus purpureus* Schumach.). Scientific Report. 2018. 8:14419. doi: 10.1038/s41598-018-32674-x.

66. [López](http://www.bioone.org.lp.hscl.ufl.edu/doi/full/10.1614/IPSM-D-13-00085.1) Y. (p), A. Kurashev (u), [C. Chase](http://www.bioone.org.lp.hscl.ufl.edu/doi/full/10.1614/IPSM-D-13-00085.1), [M. Gallo](http://www.bioone.org.lp.hscl.ufl.edu/doi/full/10.1614/IPSM-D-13-00085.1), [L. Sollenberger](http://www.bioone.org.lp.hscl.ufl.edu/doi/full/10.1614/IPSM-D-13-00085.1), F. Altpeter, and **J. Wang.** Developing and validating microsatellite markers in elephantgrass (*Pennisetum purpureum* S.). Euphytica. 2018. 214:185. DOI: 10.1007/s10681-018-2256-6

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**PATENT**

* Bent, A., M. Hudson, B. Diers, S. Melito, D. Cook, T. Hughes, A. Bayless, **J**. **Wang**, T. Lee, X. Guo. 2020. Rhg1 mediated resistance to soybean cyst nematode. Patent number: US10808260. Application number: 15360505.

**Patent contributions**: The methods to increase the resistance of soybeans to cyst nematodes are provided. The methods include increasing expression of a few genes in root cells to increase the resistance of plants to nematodes through increasing the copy number of the polynucleotides, making constructs and transgenic plants, and screening plant cells for resistance.

* Hudson M, **Wang J.,** Diers B., and Kesung K.. 2011. A DNA Sequence that confers Aphid Resistance in Soybean. International Publication Number WO 2011/097492 A1 from the International Bureau of WIPO.

**BOOK CHAPTER**

* Parmar S., V. Sharma, B. Deekshitha, P. Soni, P. Joshi, S. S. Gangurde, **J. Wang**, S. K. Bera, R.S. Bhat, H. Desmae, K. Shirasawa, B. Guo, R. K. Varshney, M. K. Pandey. 2021. Chapter 4. Recent Advances in Genetics, Genomics, and Breeding for Nutritional Quality in Groundnut. SatbirSingh Gosal and ShabirHussain Wani (Eds): Accelerated Plant Breeding, Volume 4, 978-3-030-81106-8.
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**HORNORS AND AWARDS**

2021: Roche Teaching Scholar, the College of Agricultural and Life Sciences, University of Florida.

2021: Participant, Cohort 13 of The Leadership Enhancement and Administrative Development (LEAD) program. Institute of Food and Agricultural Sciences, University of Florida.

2020: Nominee, CALS Undergraduate Faculty Advising/Mentor of the Year Award. The College of Agricultural and Life Sciences, University of Florida.

2020: Nominee, CALS Graduate Teacher/Advisor of the Year Award: 2020. The College of Agricultural and Life Sciences University of Florida.

2018-2021: Recipient, University of Florida Term Professor, University of Florida.

2017: Recipient,Bailey Award, The American Peanut Research and Education Society.

2017: Recipient, Junior Faculty Research Award, Sigma Xi Scientific Research Honor Society, The Chapter of University of Florida.

2017: Global Fellow, The UF International Center Global Fellows Program, University of Florida.

2016:Recipient, Educator award, The North American Colleges and Teachers of Agriculture (NACTA).

2016: Nominee,Bailey Award, The American Peanut Research and Education Society.

2016: Recipient, Junior Faculty Award, Gamma Sigma Delta Honor Society of Agriculture, University of Florida

## 2015: Recipient, The Denver T. Loupe Best Oral Presentation Award, The American Society of Sugar Cane Technologists, 45th Annual Joint Meeting, New Orleans, LA.

2015: Nominee, Junior Faculty Award, Gamma Sigma Delta Honor Society of Agriculture, University of Florida

2015: Recipient, Richard L. Jones Outstanding New Faculty Award, Institute of Food and Agricultural Sciences, University of Florida

2014: Recipient, Early Career Scientist Award, Institute of Food and Agricultural Sciences, University of Florida

2004: Dissertation Completion Fellowship, Michigan State University.

2003: Graduate School Research Travel Grant, Michigan State University.

2003: *Phi Beta Delta* International Scholar, Alpha Alpha Chapter, Michigan State University.

2003: The Kirk and Marjorie Lawton Graduate Student Support Award, Michigan State University.

2003: COGS Endowment Fund Conference Grant, Michigan State University.

1999: The excellent article, 2nd place, Beijing Academy of Agricultural and Forest Sciences.

1993: The Second Class Undergraduate Student Fellowship, China Agricultural University.

1992: The first class undergraduate student fellowship, China Agricultural University.

1992: President Fellowship, China Agricultural University.

1991: The first class undergraduate student fellowship, China Agricultural University.

1991: Excellent Student Leader in Department of Agronomy, China Agricultural University.

1991: Student with Triple Excellence, China Agricultural University.