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**Research Publications (2008-2017):**

- Zhao, Y., C. Zhang, H. Chen, M. Yuan, R. Nipper, C.S. Prakash, W. Zhuang, Guohao He. (2016) QTL mapping for bacterial wilt resistance in peanut (*Arachis hypogaea* L.) Molecular Breeding 36:13 DOI 10.1007/s11032-015-0432-0
- Wang, Y., Zhang, X.G., Zhao, Y.L., Prakash, C.S., **He, G.H.**, and Yin, D.M. (2015) Insights into the novel members of the FAD2 enzyme involved in high-oleate fluxes. Genome 58(8): 375-383.
- Kanyika, B. T. N., D. Lungu, A. M. Mweetwa, E. Kaimoyo, V. M. Njung'e, E. S. Monyo, M. Siambi, **Guohao He**, C. S. Prakash, Yongli Zhao, Santie De Villiers. (2015). Identification of groundnut (*Arachis hypogaea*) SSR markers suitable for multiple resistance traits QTL mapping in African germplasm. Electronic Journal of Biotechnology 18(2): 61-67.
- He, Guohao**, Noelle A. Barkley, Yongli Zhao, Mei Yuan, C.S. Prakash. (2014). Phylogenetic relationships of species of genus *Arachis* based on genic sequences. Genome 57(6): 327-334.
- Guo, Baozhu, Manish K. Pandey, **Guohao He**, Xinyou Zhang, Boshou Liao, Albert Culbreath, Rajeev K. Varshney, Victor Nwosu, Richard F. Wilson, H. Thomas Stalker. (2013). Recent Advances in Molecular Genetic Linkage Maps of Cultivated Peanut (*Arachis hypogaea* L.). Peanut Science 40: 95-106.
- Wang, Hui, Manish K. Pandey, Lixian Qiao, Hongde Qin, Albert K. Culbreath, **Guohao He**, Rajeev K. Varshney, and Baozhu Guo. (2013). Genetic Mapping and QTL Analysis for Disease Resistance Using F<sub>2</sub> and F<sub>5</sub> Generation-based Genetic Maps Derived from Tifrunner × GT-C20 in Peanut (*Arachis hypogaea* L.). Plant Genome, 6. doi: 10.3835/plantgenome2013.05.0018
- Zhao, Yongli, Roxanne Williams, C. S. Prakash, and **Guohao He** (2013) Identification and characterization of gene-based SSR markers in date palm (*Phoenix dactylifera* L.). BMC Plant Biology 12: 237.
- Zhao, Yongli, C. S. Prakash, **Guohao He**. (2012). Characterization and compilation of polymorphic simple sequence repeat (SSR) markers of peanut from public database. BMC Research Notes, 5: 362.
- Qin, H., S. Feng, C. Chen, Y. Guo, S. Knapp, A. Culbreath, **Guohao He**, M. Wang, X. Zhang, C. C. Holbrook, P. Ozias-Akins, B. Guo. (2012). An integrated genetic linkage map of cultivated peanut (*Arachis hypogaea* L.) constructed from two RIL populations. Theor Appl. Genet. 124: 653-664. DOI 10.1007/s00122-011-1737-y.
- Wang, Hui, R. V. Penmetza, M. Yuan, L. Gong, Y. Zhao, B. Guo, A. D. Farmer, B. D. Rosen, J. Gao, S. Isobe, D. J. Bertoli, R. K. Varshney, D. R. Cook, **Guohao He**. (2012). Development and characterization of BAC-end sequence derived SSRs, and their incorporation into a new higher density genetic map for cultivated peanut (*Arachis hypogaea* L.). BMC Plant Biology, 12:10.
- Yuan, M., L. Gong, R. Meng, S. Li, P. Dang, B. Guo, and **G. H. He**. (2010). Development of trinucleotide (GGC)<sub>n</sub> SSR markers in peanut (*Arachis hypogaea* L.). *Electronic Journal of Biotechnology*, vol. 13, no. 6. <http://dx.doi.org/10.2225/vol13-issue6-fulltext-6>

- Varshney, R. K., R. V. Penmetsa, S. Dutta, P. L. Kulwal, R. K. Saxena, S. Datta, T. R. Sharma, B. Rosen, N. Carrasquilla-Garcia, A. D. Farmer, A. Dubey, K. B. Saxena, J. Gao, B. Fakrudin, M. N. Singh, B. P. Singh, K. B. Wanjari, M. Yuan, R. K. Srivastava, A. Kilian, H. D. Upadhyaya, N. Mallikarjuna, C. D. Town, G. E. Bruening, **G.H. He**, G. D. May, R. McCombie, S. A. Jackson, N. K. Singh, D. R. Cook. 2010. Pigeonpea genomics initiative (PGI): an international effort to improve crop productivity of pigeonpea (*Cajanus cajan* L.). *Mol Breeding*, 26: 393-408.
- Wang, Yu, Benjamin Rosen, Jessica Scoffield, Marceline Egnin, Desmond Mortley, S. Steiner, Douglas R. Cook, and **Guohao He**. (2010) Isolation and analysis of resistance gene homologs (RGHs) in sweet potato. *Plant Breeding*, 129 (5): 519-525.
- Varshney, R.K., D.J. Bertioli, M.C. Moretzsohn, V. Vadez, L. Krishnamurthy, R. Aruma, S.N. Nigam, B.J. Moss, K. Seetha, K. Ravi, **G.H. He**, S.J. Knapp, D.A. Hoisington. (2009) The first SSR-based genetic linkage map for cultivated groundnut (*Arachis hypogaea* L.). *Theor Appl Genet*. 118 (4): 729-39.

### **Abstracts and Contributed Papers at Meetings (2008-2017):**

- Lee C, Yuan M, Prakash CS, **He G** (2016) Alleviating peanut allergy using the CRISPR/Cas system. APRES July, 2016, Clearwater, FL.
- Yang H, Hu Y, Li P, Liu R, Zhu L, Han S, Yuan M, **He G** (2016) Genetic diversity of local peanut varieties in Henan of China based on SSR markers. APRES July 2016, Clearwater, FL.
- Zhao Y, Zhang C, Zhuang WJ, Yuan M, Nipper R, Prakash CS, **He G** (2015) Single nucleotide polymorphism (SNP) markers linked to bacterial wilt resistance in peanut. APRES July 2015.
- Zhao Y, Zhang C, Zhuang WJ, Yuan M, Nipper R, Prakash CS, **He G** (2014) QTL mapping for bacterial wilt resistance in peanut (*Arachis hypogaea* L.). APRES July 8-10, 2014, San Antonio.
- Zhao Y, Zhang C, Zhuang WJ, Yuan M, Nipper R, Prakash CS, **He G** (2013) Bulk segregant analysis (BSA) for rapidly identifying SNPs linked to bacterial wilt resistance in peanut. AAGB July 2013, Zhengzhou, China.
- Zhuang WJ, Zhang C, Chen H, Zheng YX, Cai CT, **He G**, Zhuang CH (2013) Cloning and characterization of resistance genes to bacterial wilt in peanut. AAGB 2013.
- Guo B, Pandey M, Qiao L, Wang H, Culbreath A, Varshney R, Holbrook C, **He G** (2013) Revisiting T-population derived from Tifrunner x GT-C20 for achieving high dense genetic maps and detecting disease resistance QTLs in peanut. AAGB 2013.
- Roxanne Williams, Yongli Zhao, C. S. Prakash, **Guohao He**. (2012) Development and characterization of EST sequences containing SSR in date palm (*Phoenix dactylifera* L.). Professional Agricultural Workers Conference Proceedings, Tuskegee, AL, December 2-4, 2012.
- De Villiers S.M., **He G.**, Prakash C., Zhao Y., Njunge V., Monyo E.S., Mweetwa A.M., Kaimoyo E. (2012). Identification of groundnut SSR markers suitable for multiple resistance QTL mapping in African germplasm. October 2012, Genetics and Genomics in Legume. India.
- Varshney, R., C. Gowda, T. Radhakrishnan, G. Bhimana, M. Pandey, V. Sujay, R.Koppolu, V. Vadez, S. Nigam, H. Upadhyaya, Y. Khedikar, S. Isobe, **G.H. He**, D. Bertioli, S. Knapp,

- and D.R. Cook. (2011). Towards integrating genomics in breeding in groundnut (*Arachis hypogaea* L.). January 15-19, 2011, Plant & Animal Genome XIX, San Diego, CA.
- Penmetsa, Varma, B. Rosen, N. C. Garcia, J. Gao, B. K. Sarma, S. Datta, S. L. Vail, L. Garzon, B. Vandenberg, J. Woodward, M. Blair, M. Nelson, D. Bertioli, G. D. May, R. K. Varshney, M. Yuan, **G.H. He**, G. E. Bruening, and D.R. Cook. (2011). Comparative genetic maps. January 15-19, 2011, Plant & Animal Genome XIX, San Diego, CA.
- Qin, Hongde, Suping Feng, Charles Chen, Steven Knapp, Albert Culbreath, **Guohao He**, Mingli Wang, Xingyu Zhang, Corley Holbrook, and Baozhu Guo. (2011). An integrated linkage map for cultivated peanut (*Arachis hypogaea* L.) derived from two RILs populations. January 15-19, 2011, Plant & Animal Genome XIX, San Diego, CA.
- Penmetsa, R. Varma. Andrew D. Farmer, Noelia Carrasquilla-Garcia, Benjamin Rosen, Jinliang Gao, Birinchi K. Sarma, Subhojit Datta, Sally L. Vail, Luz Garzon, Kirstin Bett, Bert Vandenberg, Jimmy Woodward, Matthew Blair, David Bertioli, Gregory D. May, **Gouhao He**, George E. Bruening, Rajeev K. Varshney, Douglas R. Cook. (2010). Studies of genome evolution in papilionoid legumes. January 11-15, 2010, Plant & Animal Genome XVIII. San Diego, CA.
- He, G. H.**, V. Penmetsa, M. Yuan, H. Wang, B.Z. Guo, R.K. Varshney, D.R. Cook. (2010). A novel set of SSRs developed from BAC-end sequences and its application in construction of genetic linkage map. APRES annual meeting, July 13-15, 2010. Clearwater, FL.
- He, G. H.**, M. Yuan, B. Rosen, R. V. Penmetsa, D. R. Cook. (2009). Towards physical mapping of resistance gene homologs (RGHs) in peanut. January 10-14, 2009, Plant & Animal Genome XVII. San Diego, CA.
- He, G. H.**, M. Yuan, V. Penmetsa, R.K. Varshney, D.R. Cook. (2009). A novel set of SSRs developed from BAC-end sequences. IV International Conference of the Peanut Research Community, October 19-22, 2009, Bamako, Mali.
- Yuan, M., S.L. Li, Y. Ren, H. Wang, Y.M. Shi, S.L. Yu, **G. H. He**. (2009). Cloning and Characterization of a Peanut MADS-box gene isolated from flower bud. APRES annual meeting, July 14-17, 2009, Raleigh, NC.
- He, G. H.**, M. Yuan, B. Rosen, R. V. Penmetsa, D. R. Cook. (2008). Characterization of resistance gene homologs (RGHs) in peanut. IV International Conference on Legume Genomics and Genetics, December 7-12, 2008, Puerto Vallarta, Mexico.