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Academic Experience	
2015.04-present	Postdoctoral research associate, Oak Ridge National Laboratory
2014.07-2015.04	Lecturer, National Key Laboratory of Crop Biology, Shandong Agricultural University
2009.09-2014.06	Ph.D., Plant Genetics & Breeding, China Agricultural University
2005.09-2009.06	B. S. Biotechnology, Shandong Agricultural University
Projects Presided or Involved	
2011.11-2013.12	In charge of 'Chinese Universities Scientific Fund: Production and identification of transgenic plants tolerant to salt in sweetpotato (*Ipomoea batatas* (L.) Lam.)'. Project number: 2012YJ008
Awards	
2014	Award of the patent 'A salt tolerance-associated gene *IbERD3* from sweetpotato'.
2013	Award of the patent 'A salt tolerance-associated gene *IbEST* from sweetpotato'. Patent number: 201310125141.1.
2012	Scholarship Award for Excellent Doctoral Student granted by Ministry of Education, China Award of Scientific Achievement, China Agricultural University
Publications	
2016	1. **Liu, D.**, Hu, R., Palla, K.J., Tuskan, G.A. and Yang, X., 2016. Advances and perspectives on the use of CRISPR/Cas9 systems in plant genomics research. Current Opinion in Plant Biology, 30, pp.70-77.
2015	2. **Liu, D.**, He, S., Song, X., Zhai, H., Liu, N., Zhang, D., Ren, Z. and Liu, Q., 2015. *IbSIMT1*, a novel salt-induced methyltransferase gene from Ipomoea batatas, is involved in salt tolerance. Plant Cell, Tissue and Organ Culture (PCTOC), 120(2), pp.701-715. 3. Chen, W., He, S., **Liu, D.**, Patil, G.B., Zhai, H., Wang, F., Stephenson, T.J., Wang, Y., Wang, B., Valliyodan, B. and Nguyen, H.T., 2015. A Sweetpotato Geranylgeranyl Pyrophosphate Synthase Gene, *IbGGPS*, Increases Carotenoid Content and Enhances Osmotic Stress Tolerance in *Arabidopsis thaliana*. PloS one, 10(9), p.e0137623. 4. Li, R., Zhai, H., Kang, C., **Liu, D.**, He, S. and Liu, Q., 2015. *De novo* transcriptome sequencing of the orange-fleshed sweet potato and analysis of differentially expressed genes related to carotenoid biosynthesis. International journal of genomics, 2015.
2014	5. **Liu, D.**, He, S., Zhai, H., Wang, L., Zhao, Y., Wang, B., Li, R. and Liu, Q., 2014. Overexpression of *IbP5CR* enhances salt tolerance in transgenic sweetpotato. Plant Cell, Tissue and Organ Culture (PCTOC), 117(1), pp.1-16. 6. **Liu, D.**, Wang, L., Liu, C., Song, X., He, S., Zhai, H. and Liu, Q., 2014. An *Ipomoea batatas* iron-sulfur cluster scaffold protein gene, *IbNFU1*, is involved in salt tolerance. PloS one, 9(4), p.e93935.

	7. **Liu, D.**, Wang, L., Zhai, H., Song, X., He, S. and Liu, Q., 2014. A novel α/β-hydrolase gene *IbMas* enhances salt tolerance in transgenic sweetpotato. PloS one, 9(12), p.e115128.
2013	8. Wang, L.., He, S., Zhai, H., **Liu, D.**, Wang, Y. and Liu, Q., 2013. Molecular cloning and functional characterization of a salt tolerance-associated gene *IbNFU1* from sweetpotato. Journal of Integrative Agriculture, 12(1), pp.27-35. 9. Chen, W., Zhai H., Yang, Y., HE, S., **Liu, D.** and Liu, Q., 2013. Identification of differentially expressed genes in sweetpotato storage roots between Kokei No. 14 and its mutant Nongdafu 14 using PCR-based cDNA subtraction. Journal of Integrative Agriculture, 12(4), pp.589-595.
2012	10. Wang, L., Dai, C., **Liu, D.**, and Liu, Q., 2012. Identification of a male-specific amplified fragment length polymorphism (AFLP) marker in Broussonetia papyrifera. African Journal of Biotechnology, 11(33), pp.8196-8201. 11. **Liu, D.**, Zhao, N., Zhai, H., Yu, X., Jie, Q., Wang, L., He, S., and Liu, Q., 2012. AFLP fingerprinting and genetic diversity of main sweetpotato varieties in China. Journal of Integrative Agriculture, 11(9), pp.1424-1433.