

CURRICULUM VITAE

Personal Information			
Name	Lin Li	Gender	Male
Position Title	Full Professor		
Working Department	Department of Crop Genetics and Breeding		
Email	hzaulilin@mail.hzau.edu.cn		
Address	Huazhong Agricultural University, Wuhan, China, 430070		
Tel	13247181095	Fax	
Research Interest			
<p>Utilizing Next Generation Sequencing Technology to explore transcriptome variation, to systematically dissect co-expression networks associated with Shoot Apical Meristem development and plant architecture, and to clone functional gene in maize.</p>			
Professional Memberships			
Other Roles			



Education & Working Experience




Education

- Sep 2005 – Jul 2010* **China Agricultural University**
Ph. D, Plant Genetics
Beijing, China
- Sep 2001 – Jul 2005* **China Agricultural University**
Bachelor, Plant Genetics and Agronomy
Beijing, China

Professional Experience

- Aug 2010 – July 2013* **University of Minnesota, Twin Cities**
Post-Doctor, Department of Agronomy and Plant Genetics
MN, United States of America
- July 2013 – Sep 2015* **University of Minnesota, Twin Cities**
Post-Doctor Research Associate, Department of Agronomy and Plant Genetics
MN, United States of America
- Sep 2015 – present* **Huazhong Agricultural University, Wuhan**
Full Professor, Department of Agronomy and Plant Genetics
Wuhan, China

Publications

17. Qingchun Pan#, Lin Li#, Xiaohong Yang, Hao Tong, Shutu Xu, Zhigang Li, Weiya Li, Gary J. Muehlbauer, Jiansheng Li, Jianbing Yan. Genome-wide recombination dynamics is associated with phenotypic variation in maize. **New Phytologist**, 2015, accepted. # - 共同第一作者
16. Xiang Li, **Lin Li**, Jianbing Yan: Dissecting Meiotic Recombination based on Tetrad Analysis by Single Microspore Sequencing in Maize. **Nature communications** 2015:6.
15. **Lin Li**, Steven R Eichten, Rena Shimizu, Katherine Petsch, Cheng-Ting Yeh, Wei Wu, Antony M Chettoor, Scott A Givan, Rex A Cole, John E Fowler, Matthew Ms Evans, Michael J Scanlon, Jianming Yu, Patrick S Schnable, Marja C Timmermans, Nathan M Springer, Gary J Muehlbauer: *Genome-wide discovery and characterization of maize long non-coding RNAs*. **Genome biology** 02/2014; 15(2):R40.
Selected as an Editors' Choice by MaizeGDB, 07/14  Maize Genetics and Genomics Database
14. **Lin Li**, Katherine Petsch, Rena Shimizu, Sanzhen Liu, Wayne Wenzhong Xu, Kai Ying, Jianming Yu, Michael J. Scanlon, Patrick S. Schnable, Marja C. P. Timmermans, Nathan M. Springer, Gary J. Muehlbauer: *Mendelian and Non-Mendelian Regulation of Gene Expression in Maize*. **PLoS Genetics** 01/2013; 9(1):e1003202. *Selected as an Editors' Choice by MaizeGDB, 02/13*  Maize Genetics and Genomics Database ;
Recommended by 
13. Qing Li, Xiaohong Yang, Shutu Xu, Ye Cai, Dalong Zhang, Yingjia Han, **Lin Li**, Zuxin Zhang, Shibin Gao, Jiansheng Li, Jianbing Yan: *Genome-wide association studies identified three independent polymorphisms associated with α -tocopherol content in maize kernels*. **PLoS ONE** 01/2012; 7(5):e36807.
12. Dianyi Shi, **Lin Li**, Jiewei Zhang, Panfeng Zhao, Lei Xing, Wenjun Xie, Jianbing Yan, Weiwei Jin: *Genome-wide examination of chlorophyll metabolic genes in maize and phylogenetic analysis among different photosynthetic organisms*. **African Journal of Biotechnology**. 01/2011; 10:5559-5562.
11. **Lin Li**, Hui Li, Qing Li, Xiaohong Yang, Debo Zheng, Marilyn Warburton, Yuchao Chai, Pan Zhang, Yuqiu Guo, Jianbing Yan, Jiansheng Li: *An 11-bp insertion in *Zea mays fatb* reduces the palmitic acid content of fatty acids in maize grain*. **PLoS ONE** 01/2011; 6(9):e24699.
10. Xiaohong Yang, Shibin Gao, Shutu Xu, Zuxin Zhang, Boddupalli M Prasanna, **Lin Li**, Jiansheng Li, Jianbing Yan: *Characterization of a global germplasm collection and its potential utilization for analysis of complex quantitative traits in maize*. **Molecular Breeding** 28/2011; 4: 511-526.
9. **Lin Li**, Hui Li, JiYing Li, Shutu Xu, Xiaohong Yang, Jiansheng Li, Jianbing Yan: *A genome-wide survey of maize lipid-related genes: candidate genes mining, digital gene expression profiling and co-location with QTL for maize kernel oil*. **Science China Life sciences** 06/2010; 53(6):690-700.
8. Xiaohong Yang, Jianbing Yan, Trushar Shah, Marilyn L Warburton, Qing Li, **Lin Li**, Yufeng Gao, Yuchao Chai, Zhiyuan Fu, Yi Zhou, Shutu Xu, Guanghong Bai, Yijiang Meng, Yanping Zheng, Jiansheng Li: *Genetic analysis and characterization of a new maize association mapping panel for quantitative trait loci dissection*. **Theoretical and Applied Genetics** 03/2010; 121(3):417-31.
7. Qing Li, **Lin Li**, Xiaohong Yang, Marilyn L Warburton, Guanghong Bai, Jingrui Dai, Jiansheng Li, Jianbing Yan: *Relationship, evolutionary fate and function of two maize co-orthologs of rice *GW2**

associated with kernel size and weight. **BMC Plant Biology** 01/2010; 10:143.

6. **Lin Li**, Qing Li, Libo Wang, Zuxin Zhang, Jiansheng Li, Jianbing Yan: *Genetic analysis of QTL affecting recombination frequency in whole genome of maize and rice*. **Scientia Agricultura Sinica**. 01/2009; 42:2262-2270.
5. Qing Li, **Lin Li**, JingRui Dai, JianSheng Li, JianBing Yan: *Identification and characterization of CACTA transposable elements capturing gene fragments in maize*. **Chinese Science Bulletin** 01/2009; 54:642-651.
4. Hailin, Ma; Xiaohong, Yang; Yuqiu, Guo; **Lin, Li**, Guanghong, Bai; Jiansheng, Li: Correlation Analysis of Kernel Traits and Oil Concentration in Maize. **Crops** 2009; 1:11.
3. Wenkai Xiao, Jing Zhao, Shengci Fan, **Lin Li**, Jinrui Dai, Mingliang Xu: *Mapping of genome-wide resistance gene analogs (RGAs) in maize (Zea mays L.)*. **Theoretical and Applied Genetics** 09/2007; 115(4):501-8.
2. Gui-Xiang Wang, Yu Chen, Jiu-Ran Zhao, **Lin Li**, Schuyler S. Korban, Feng-Ge Wang, Jian-Sheng Li, Jin-Rui Dai, Ming-Liang Xu: *Mapping of defense response gene homologs and their association with resistance loci in maize*. **Journal of Integrative Plant Biology** 01/2007; 11:1580-1598.
1. Jian-Bing Yan, Ji-Hua Tang, Yi-Jiang Meng, Xi-Qing Ma, Wen-Tao Teng, Subhash Chander, **Lin Li**, Jian-Sheng Li: *Improving QTL mapping resolution based on genotypic sampling--a case using a RIL population*. **Acta Genetica Sinica** 08/2006; 33(7):617-24.

Additional Information

Patent

Major contributor to **China Patent ZL 2010-1-0285616.X** – Functional validation of *Zea mays fatb* gene in regulation of the ratio of saturated to unsaturated fatty acids in maize kernels and its application

Oral Presentations at Professional Meetings, Conferences, Universities, etc.

<u>Dates</u>	<u>Location</u>
2014	Plant and Animal Genome Meeting, San Diego, CA
2014	8 th Annual Retreat of the Microbial & Plant Genomics Institute, St. Paul, MN
2009	China Maize Breeding Meeting, He Nan, China

Abstracts and Posters

- ✧ [Lin Li](#), Mike Scanlon, Patrick Schnable, Marja Timmermans, Jianming Yu, Nathan Springer, Gary Muehlbauer. A panoramic view of long non-coding RNAs, their inheritance pattern and genetic mapping in maize. *Maize Genetics Conference Abstracts* (2013).
- ✧ Addie Thompson, [Lin Li](#), James Crants, Nathan Springer, Patrick Schnable, Marja Timmermans, Jianming Yu, Mike Scanlon, Gary Muehlbauer. Expression Patterns and Interactions of Developmental Genes in Maize. *Maize Genetics Conference Abstracts* (2013).
- ✧ Marie Javelle, Marcela Dotto, [Lin Li](#), Robyn Johnston, Jianming Yu, Patrick Schnable, Gary Muehlbauer, Mike Scanlon, Marja Timmermans. Identification of novel gene networks involved in stem cell maintenance and organogenesis in maize. *Maize Genetics Conference Abstracts* (2013).
- ✧ Mike Scanlon, Robyn Johnston, Samuel Leiboff, Marie Javelle, [Lin Li](#), Xianran Li, Gary Muehlbauer, Katie Petsch, Patrick Schnable, Addie Thompson, Marja Timmermans, Jianming Yu. Genetics of the maize shoot apical meristem. *Maize Genetics Conference Abstracts* (2013).
- ✧ [Lin Li](#), Katie Petsch, Rena Shimizu, Sanzhen Liu, Wayne Xu, Kai Ying, Mike Scanlon, Marja Timmermans, Patrick Schnable, Jianming Yu, Gary Muehlbauer. eQTL mapping of the maize shoot apex reveals complex gene regulation. *Maize Genetics Conference Abstracts* (2012).
- ✧ Addie Thompson, [Lin Li](#), James Crants, Rena Shimizu, Katie Petsch, Jillian Foerster, Jinliang Yang, Natalia de Leon, Shawn Kaeppler, Nick Lauter, Nathan Springer, Diane Janick-Buckner, Patrick Schnable, Marja Timmermans, Jianming Yu, Mike Scanlon, Gary Muehlbauer. Natural Variation in Maize Shoot Apical Meristem Architecture and its Genetic Regulation. *Maize Genetics Conference Abstracts* (2012).
- ✧ [Lin Li](#), Hui Li, Jiying Li, Shutu Xu, Jiansheng Li and Jianbing Yan. A genome-wide survey of maize lipid-related genes: candidate genes mining, digital gene expression profiling and co-location with QTL for maize kernel oil. *The Conference of Plant Genomics in China* (2009).
- ✧ [Lin Li](#), Jianbing Yan, Hongzhou Lei, Zheng Song, Ping Wu, Yunbi Xu and Jiansheng Li. QTL-Finder: a

bioinformatics tool for QTL integration, comparison and discovery of candidate genes across genomes and experiments. *The Conference of Plant Genomics in China* (2007).

Bioinformatic Databases

- ✧ MBCC- A comprehensive maize bioinformatics database (Genomics and Genetics). Local database in National Maize Improvement Center of China.
- ✧ Meta2Trait- A pathway driven association mapping database for important agronomic traits. <http://www.meta2trait.org/> .
- ✧ MaizeDNA- Chinese standard maize DNA Fingerprint Database. <http://www.maizedna.com/> .

Bioinformatic Softwares/Pipelines

- ✧ QTL-Finder: a bioinformatics tool for QTL integration, comparison and discovery of candidate genes across genomes and experiments. <http://www.meta2trait.org/qtlfinder/> .
- ✧ LncRNA-Finder: a systematic pipeline for the identification of long noncoding RNAs https://www.github.com/caulilin/LncRNA_Finder/ .

Teaching Experience

2007- Teaching Assistant, *Genetics*

Journal Reviews

Served as peer reviewer for 10 manuscripts at *Genome Research, Molecular Biology and Evolution, PLoS ONE, Molecular Breeding, Theoretical and Applied Genetics, Crop Science*