



吉林大學植物科學學院

College of Plant Science, Jilin University



副教授

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师资队伍

- ◆ 博士生导师
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- ◆ 教授
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王乐

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◆ 实验(工程系列)

◆ 知名专家

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教育经历 (时间倒序)

2010.09年-2015.12年 西北农林科技大学 博士

2007.09年-2010.07年 西北农林科技大学 硕士

2003.09年-2007.07年 西北农林科技大学 本科

工作经历 (时间倒序)

2021.05年-现在 吉林大学 副教授 硕士生导师

2016.01年-2021.02年 University of California, Davis 博士后

教学情况

本科生课程《蛋白质组学》

研究生课程《植物基因组》, 《科技论文写作》, 《生物信息学》

主要研究方向

- 1.植物基因组
- 2.植物群体遗传
- 3.生物信息学

代表性课题

1. US National Science Foundation, TRTech-PGR: Improvement of the genome sequence assembly of Chinese Spring wheat. 2019年
2. USDA/NIFA/SCRI and the California Walnut Board, Walnut genome project. 2016年- 2020年
3. US National Science Foundation (NSF), Sequencing the Aegilops tauschii Genome. 2013年- 2018年
4. International Wheat Genome Sequencing Consortium (IWGSC), Genome sequence of bread wheat. 2010年- 2018年
5. 科技部重点研发项目和西北农林科技大学重点学科建设项目, 六倍体小麦7D染色体长臂物理图谱构建和测序, 2010年-2018年



Spannagl, Klaus Mayer, Patricia Baldrich, Blake Meyers, Naxin Huo, Yong Gu, Hongye Zhou, Katrien Devos, Jeffrey Bennetzen, Turgay Unver, Hikmet Budak Patrick Gulick, Gabor Galiba, Balazs Kalapos, David R. Nelson Pingchuan Li, Frank You, Ming-Cheng Luo, Jan Dvorak. (2021). *Aegilops tauschii* genome assembly Aetv5.0 features greater sequence contiguity and improved annotation. *G3-Genes Genomes Genetics*. 10.1093/g3journal/jkab325.

2. Tingting Zhu*, **Le Wang***, H el ene Rimbart*, Juan C Rodriguez, Karin R Deal, Romain De Oliveira, Fr ed eric Choulet, Gabriel Keeble-Gagn ere, Josquin Tibbits, Jane Rogers, Kellye Eversole, Rudi Appels, Yong Q Gu, Martin Mascher, Jan Dvorak, Ming-Cheng Luo (2021). Optical maps refine the bread wheat *Triticum aestivum* cv. Chinese Spring genome assembly. *Plant J*. 2021;107(1):303-314. doi:10.1111/tpj.15289 (***Co-first author**)

3. **Le Wang**, Tingting Zhu, Karin R. Deal, Jan Dvorak, Ming-Cheng Luo. (2020). Computational identification of conserved miRNAs and their putative target genes in *Juglans regia* and *J. microcarpa*. *Plants*. 2020; 9(10):1330. <https://doi.org/10.3390/plants9101330>

4. Shijiao Jiang, Bipin Balan, Renata de A B Assis, Cintia H D Sagawa, Xueqin Wan, Shan Han, **Le Wang**, Lanlan Zhang, Paulo A Zaini, Sriema L Walawage, Aaron Jacobson, Steven H Lee, Leandro M Moreira, Charles A Leslie, Abhaya M Dandekar. (2020). Genome-Wide Profiling and Phylogenetic Analysis of the SWEET Sugar Transporter Gene Family in Walnut and Their Lack of Responsiveness to *Xanthomonas arboricola* pv. *juglandis* Infection. *International Journal of Molecular Sciences*. 21. 1251. 10.3390/ijms21041251.

5. Jiale Xu, **Le Wang**, Karin R Deal, Tingting Zhu, Ramesh K Ramasamy, Ming-Cheng Luo, Julia Malvick, Frank M You, Patrick E McGuire, Jan Dvorak. (2020). Genome-wide introgression from a bread wheat \times *Lophopyrum elongatum* amphiploid into wheat. *Theoretical and Applied Genetics*. 133. 10.1007/s00122-020-03544-w.

6. Junjie Cui*, Yan Yang*, Shaobo Luo*, **Le Wang***, Rukui Huang, Qingfang Wen, Xiaoxia Han, Nansheng Miao, Jiaowen Cheng, Ziji Liu, Changyuan Zhang, Chengcheng Feng, Haisheng Zhu, Jianwen Su, Xinjian Wan, Fang Hu, Yu Niu, Xiaoming Zheng, Yulan Yang, Dai Shan, Zhensheng Dong, Weiming He, Narinder P. S. Dhillon & Kailin Hu. 2020 Whole-genome sequencing provides insights into the genetic diversity and domestication of bitter melon (*Momordica* spp.). *Hortic Res* 7, 85 (2020). <https://doi.org/10.1038/s41438-020-0305-5>. (***Co-first author**)

7. Hao Li, **Le Wang**, Ming-Cheng Luo, Fang Nie, Yun Zhou, Patrick E McGuire, Assaf Distelfeld, Xiongtao Dai, Chun-Peng Song, Jan Dvorak.(2019). Recombination between homoeologous chromosomes induced in durum wheat by the *Aegilops speltoides* Su1-Ph1 suppressor. *Theoretical and Applied Genetics*. 132. 10.1007/s00122-019-03423-z.

8. Jiale Xu, Xiongtao Dai, Ramesh K. Ramasamy, **Le Wang**, Tingting Zhu, Patrick E. McGuire, Chad M. Jorgensen, Hamid Dehghani, Patrick J. Gulick, Ming-Cheng Luo, Hans-Georg M uller and Jan Dvorak. (2019). *Aegilops tauschii* Genome Sequence: A Framework for Meta-analysis of Wheat QTLs. *G3-Genes Genomes Genetics*. 9. g3.200921.2018. 10.1534/g3.118.200921.



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10. Tingting Zhu*, **Le Wang***, Frank M. You*, Juan C. Rodriguez, Karin R. Deal, Limin Chen, Jie Li, Sandeep Chakraborty, Bipin Balan, Cai-Zhong Jiang, Patrick J. Brown, Charles A. Leslie, Mallikarjuna K. Aradhya, Abhaya M. Dandekar, Patrick E. McGuire, Daniel Kluepfel, Jan Dvorak & Ming-Cheng Luo. (2019). Sequencing a *Juglans regia* × *J. microcarpa* hybrid yields high-quality genome assemblies of parental species. *Horticulture Research*. 6. 55. 10.1038/s41438-019-0139-1. (***Co-first author**)

11. Kewei Feng*, Licao Cui*, **Le Wang***, Dai Shan*, Wei Tong, Pingchuan Deng, Zhaogui Yan, Mengxing Wang, Haoshuang Zhan, Xiaotong Wu, Weiming He, Xianqiang Zhou, Jingjing Ji, Guiping Zhang, Long Mao, Miroslava Havrankova, Hana Simkova, Jaroslav Dolezel, Xianghong Du, Song Weining. (2019). The improved assembly of 7DL chromosome provides insight into the structure and evolution of bread wheat. *Plant Biotechnology Journal*. 10.1111/pbi.13240. (***Co-first author**)

12. Xiongtao Dai, Hao Wang, Hongye Zhou, **Le Wang**, Jan Dvorak, Jeffrey Bennetzen, Hans-Georg Müller. (2018). Birth and Death of LTR-Retrotransposons in *Aegilops tauschii*. *Genetics*. 210. 10.1534/genetics.118.301198.

13. Jan Dvorak (Corresponding author), **Le Wang**, Tingting Zhu, Chad M Jorgensen, Ming-Cheng Luo, Karin Deal, Yong Q Gu, Bikram S Gill, Assaf Distelfeld, Katrien M Devos, Peng Qi, Patrick E McGuire. (2018). Reassessment of the evolution of wheat chromosomes 4A, 5A, and 7B. *Theoretical and Applied Genetics*. 131. 10.1007/s00122-018-3165-8.

14. Jan Dvorak (Corresponding author), **Le Wang**, Tingting Zhu, Chad M Jorgensen, Karin R Deal, Xiongtao Dai, Matthew W Dawson, Hans-Georg Müller, Ming-Cheng Luo, Ramesh K Ramasamy, Hamid Dehghani, Yong Q Gu, Bikram S Gill, Assaf Distelfeld, Katrien M Devos, Peng Qi, Frank M You, Patrick J Gulick, Patrick E McGuire. (2018). Structural variation and rates of genome evolution in the grass family seen through comparison of sequences of genomes greatly differing in size. *The Plant Journal*. 95. 10.1111/tpj.13964.

15. Hansheng Zhao*, Zhimin Gao*, **Le Wang***, Jiongliang Wang, Songbo Wang, Benhua Fei, Chunhai Chen, Chengcheng Shi, Xiaochuan Liu, Hailin Zhang, Yongfeng Lou, LianFu Chen, Huayu Sun, Xianqiang Zhou, Sining Wang, Chi Zhang, Hao Xu, Lichao Li, Yihong Yang, Yanli Wei, Wei Yang, Qiang Gao, Huanming Yang, Shancen Zhao, Zehui Jiang. (2018) Chromosome-level reference genome and alternative splicing atlas of moso bamboo (*Phyllostachys edulis*), *GigaScience*, Volume 7, Issue 10, October 2018, giy115, <https://doi.org/10.1093/gigascience/giy115> (***Co-first author**)

16. The International Wheat Genome Sequencing Consortium (IWGSC), Rudi Appels, Kellye Eversole, Nils Stein, Catherine Feuillet, Beat Keller, Jane Rogers, Curtis J. Pozniak, Frédéric Choulet, Assaf Distelfeld, Jesse Poland, Gil Ronen, ... **Le Wang**. (2018) Shifting the limits in wheat research and breeding using a fully annotated reference genome. *Science*. <https://doi.org/10.1126/science.aar7191>



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18. Hong Yue*, **Le Wang***, Hui Liu, Wenjie Yue, Xianghong Du, Weining Song & Xiaojun Nie. (2016). De novo assembly and characterization of the transcriptome of broomcorn millet (*Panicum miliaceum* L.) for gene discovery and marker development. *Front. Plant Sci.* 7:1083. doi: 10.3389/fpls.2016.01083. (***Co-first author**)

19. Pingchuan Deng*, **Le Wang***, Licao Cui, Kewei Feng, Fuyan Liu, Xianghong Du, Wei Tong, Xiaojun Nie, Wanquan Ji, Song Weining. (2015) Global Identification of MicroRNAs and Their Targets in Barley under Salinity Stress. *PLoS ONE* 10(9): e0137990. doi:10.1371/journal.pone.0137990. (***Co-first author**)

20. Yunze Lu*, **Le Wang***, Hong Yue, Mengxing Wang, Pingchuan Deng, David Edwards, Song Weining. (2014). Comparative analysis of Stowaway-like miniature inverted repeat transposable elements in wheat group 7 chromosomes: Abundance, composition, and evolution. *Journal of Systematics and Evolution*, 52(6), 743-749. (***Co-first author**)

会议论文:

1. **Le Wang**, Tingting Zhu, Karin R. Deal, Jan Dvorak, Ming-Cheng Luo, 2020 Computational identification of conserved miRNAs and their putative target genes in *Juglans regia* and *J. microcarpa*. The 28th Intern. Plant and Animal Genome Conference, San Diego, CA. Jan. 11-15, 2020.

2. **Le Wang**, Tingting Zhu, Karin R. Deal, Jan Dvorak, Ming-Cheng Luo, 2020 Improved genome assembly for *Aegilops tauschii* with the aid of optical maps and whole genome SMRT sequencing. The 28th Intern. Plant and Animal Genome Conference, San Diego, CA. Jan. 11-15, 2020

3. Tingting Zhu, **Le Wang**, Karin R. Deal, Gabriel Keeble-Gagnere, Rudi Appels, Pat McGuire, Jan Dvorak and Ming-Cheng Luo, 2020, Improved reference genome sequence of 'Chinese Spring' wheat provides insights into structural changes of the wheat genome. The 28th Intern. Plant and Animal Genome Conference, San Diego, CA. Jan. 11 -15, 2020.

4. Tingting Zhu, **Le Wang**, Juan C. Rodriguez, Karin R. Deal, Raz Avni, Assaf Distelfeld, Pat McGuire, Jan Dvorak and Ming-Cheng Luo, 2019, Improved Genome Sequence of Wild Emmer Zavitan With the Aid of Optical Maps. The 27th Intern. Plant and Animal Genome Conference, San Diego, CA. Jan. 12 -16, 2019.



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CA. Jan. 13 -17, 2018.

6. Tingting Zhu, **Le Wang**, Frank M. You, Juan C. Rodriguez, Karin R. Deal, Limin Chen, Jie Li, Sandeep Chakraborty, Bipin Balan, Cai-Zhong Jiang, Patrick J. Brown, Charles A. Leslie, Mallikarjuna Aradhya, Abhaya M. Dandekar, Daniel A. Kluepfel, Jan Dvorak and Ming-Cheng Luo, 2018, A Novel and Efficient Approach for Phasing Highly Heterozygous Plant Genomes. The 26th Intern. Plant and Animal Genome Conference, San Diego, CA. Jan. 13 -17, 2018.

7. **Le Wang**, Tingting Zhu and Ming-Cheng Luo, 2017, The Comparison of Aegilops tauschii Sequence Assembled By NRGene's DeNovoMAGIC and Pacbio-Illumina Hybrid Assembly with the MaSuRCA Mega-Reads Algorithm. The 25th Intern. Plant and Animal Genome Conference, San Diego, CA. Jan. 14 -18, 2017

8. **Le Wang**, Xiaojun Nie, Hana Simkova, Jan Safar, Jaroslav Dolezel, David Edwards, Mingcheng Luo, Song Weining. 2013. Physical mapping of the wheat chromosome arm 7DL: a foundation for reference sequence assembly and positional cloning. The 12th International Wheat Genetics Symposium, Yokohama, Japan, September 8-14, 2013.

9. Xiaojun Nie, **Le Wang**, Hana Simkova, Jan Safar, Jaroslav Dolezel, David Edwards, Ruidi Appels, Mingcheng Luo and Song Weining. 2012. The construction of a physical map and analysis of the survey sequence – Current status of the project of 7DL wheat chromosome arm. International Wheat Genome Sequencing Consortium Workshop, June 24, Fargo, ND.

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