

# TAO YAN(严涛)

Lecturer at College of Agronomy, Hunan Agricultural University (HUNAU), Changsha, China. My Ph.D research work covers a range of issues: Population Genetics Evolution and Ecotype Divergence Analysis of *Brassica napus*, Genome-wide Association Study (GWAS) of Agronomic Traits. Currently, I am interested in Transposable Elements Insertion Polymorphisms (TIPs) in Crop Population and genetic basis such as SV, CNV and TIPs etc. Now my research focus on Crop Stress and Improvement.

I am broadly interested in bioinformatics, data integration and visualization.



## RESEARCH EXPERIENCE

present  
|  
2021



### Lecturer

College of Agronomy

📍 Hunan Agricultural University



## EDUCATION

2021  
|  
2016



### PhD., Crop Genetics and Breeding

Zhejiang University

📍 Hangzhou, CN

• Thesis: Genomic polymorphism analysis and digital utilization of germplasm resources in rapeseed (*Brassica napus* L.)

2016  
|  
2012



### B.S., Crop Genetics and Breeding

Zhejiang University

📍 Hangzhou, CN



## SCHOLARSHIPS & AWARDS

2021  
|  
2020



浙江大学优秀毕业生

Zhejiang University

📍 Hangzhou, CN



浙江省优秀毕业生

Zhejiang University

📍 Hangzhou, CN

2020  
|  
2019



Model Student of Academic Records and Merit Student

Zhejiang University

📍 Hangzhou, CN



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## CONTACT

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🌐 [taoyan.netlify.app](https://taoyan.netlify.app)

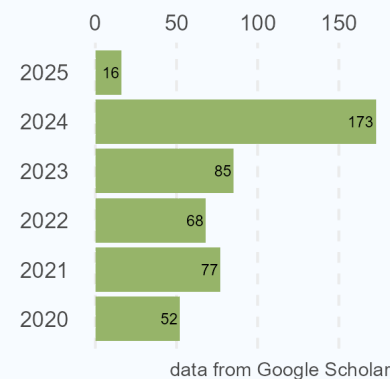
🔑 yt056410

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I10-index = 12



Last updated on 2025-02-06.

	● <b>National Scholarship for Postgraduates</b> Zhejiang University	📍 Hangzhou, CN
2018   2017	● <b>Model Student of Academic Records and Merit Student</b> Zhejiang University	📍 Hangzhou, CN
2015   2014	● <b>Second-class Scholarship and Merit Student</b> Zhejiang University	📍 Hangzhou, CN
2014   2013	● <b>Third-class Scholarship and Merit Student</b> Zhejiang University	📍 Hangzhou, CN



## PUBLICATIONS



2025	● <b>Differentiation of genome-wide DNA methylation between japonica and indica rice</b> <i>The Plant Journal</i> . 2025, 121(2):e17218. • Tao Yan, Liuhui Kuang, Fei Gao, Jian Chen, Lin Li, Dezhi Wu • First author • Impact Factor = 6.25
2020	● <b>BnaSNPDB: An interactive web portal for the efficient retrieval and analysis of SNPs among 1,007 rapeseed accessions</b> <i>Computational and Structural Biotechnology Journal</i> . 2020, 18:2766-2773. • Yan, T., Wang, Q., Maodzeka, A., Wu, D., Jiang, L.* • First author • Impact Factor = 7.409
2021	● <b>BnaGVD: A genomic variation database of rapeseed (Brassica napus)</b> <i>Plant and Cell Physiology</i> . 2021, 62(2):378–383. • Yan, T., Yao, Y., Wu, D., Jiang, L.* • First author • Impact Factor = 5.516
2020	● <b>Genome-wide association study reveals new genes involved in leaf trichome formation in polyploid oilseed rape (Brassica napus L.)</b> <i>Plant, Cell &amp; Environment</i> . 2020, 43(3):675-691. • Xuan, L. <sup>#</sup> , Yan, T. <sup>#</sup> , Lu, L., Zhao, X., Wu, D., Hua, S., Jiang, L.* • Co-first author • Impact Factor = 7.791

- 2023 ● **Transcriptomic Profiling of Cold Stress-Induced Differentially Expressed Genes in Seedling Stage of Indica Rice**  
*Plants*. 2023, 12(14):2675.  
 • *Tao Yan*, Meng Sun, Rui Su, Xiaozhong Wang, Xuedan Lu, Yunhua Xiao, Huabing Deng, Xiong Liu, Wenbang Tang, Guilian Zhang  
 • First author  
 • Impact Factor = 4.0
- 2024 ● **Transcriptome-wide m6A methylation and metabolomic analysis reveal regulatory networks in rice roots under manganese stress**  
*Environmental and Experimental Botany*. 2024, 105906.  
 • Tingting Su, Jian Chen, Xing Huo, Liuhui Kuang, *Tao Yan*, Fei Gao, Dezhi Wu  
 • Impact Factor = 4.5
- **Genomic and transcriptome analyses reveal potential contributors to erucic acid biosynthesis in seeds of rapeseed (*Brassica napus*)**  
*Theor Appl Genet*. 2024, 137(6):129.  
 • Shiqi Xu, Shan Chen, Jialing Cai, *Tao Yan*, Mengxin Tu, Ruisen Wang, Shuijin Hua, Lixi Jiang  
 • Impact Factor = 4.5
- 2023 ● **Multi-omics analysis reveals differential molecular responses to cadmium toxicity in rice root tip and mature zone**  
*Journal of Hazardous Materials*. 2023, 462.  
 • Liuhui Kuang, *Tao Yan*, Fei Gao, Wenbang Tang, Dezhi Wu  
 • Impact Factor = 12.2
- 2021 ● **Genome-wide association study reveals a patatin-like lipase relating to the reduction of seed oil content in *Brassica napus***  
*BMC Plant Biology*. 2021, 21(6).  
 • Haoyi Wang, Qian Wang, Haksong Pak, *Tao Yan*, Mingxun Chen, Xiaoyang Chen, Dezhi Wu and Lixi Jiang<sup>\*</sup>  
 • Impact Factor = 4.960
- **Prediction of heterosis in the recent rapeseed (*Brassica napus*) polyploid by pairing parental nucleotide sequences**  
*PLoS Genetics*. 2021, 17(11).  
 • Qian Wang, *Tao Yan*, Zhengbiao Long, Luna Yue Huang, Yang Zhu, Ying Xu, Xiaoyang Chen, Haksong Pak, Jiqiang Li, Dezhi Wu, Yang Xu, Shuijin Hua, Lixi Jiang<sup>\*</sup>  
 • Impact Factor = 5.917

- 2019 ● **Whole-genome resequencing of a world-wide collection of rapeseed accessions reveals genetic basis of their ecotype divergence**  
*Molecular Plant* . 2019, 12(1):30-43.  
 • Wu, D., Liang, Z., **Yan, T.**, Xu, Y., Xuan, L., Tang, J., Zhou, G., Lohwasser, U., Hua, S., Wang, H., Chen, X., Wang, Q., Zhu, L., Maodzeka, A., Hussain, N., Li, Z., Li, X., Shamsi, I.H., Jilani, G., Wu, L., Zheng, H., Zhang, G., Chalhoub, B., Shen, L., Yu, H., **Jiang, L.**<sup>\*</sup>  
 • Impact Factor = 16.357
- 2018 ● **Effect of high night temperature on storage lipids and transcriptome changes in developing seeds of oilseed rape**  
*Journal of Experimental Botany*. 2018, 69(7):1721-1733.  
 • Zhou, L., **Yan, T.**, Chen, X., Li, Z., Wu, D., Hua, S., **Jiang, L.**<sup>\*</sup>  
 • Impact Factor = 7.860
- **TRANSPARENT TESTA 4 - mediated flavonoids negatively affect embryonic fatty acid biosynthesis in Arabidopsis**  
*Plant, Cell & Environment*. 2018, 41(12):2773-2790.  
 • Xuan, L., Zhang, C., **Yan, T.**, Wu, D., Hussain, N., Li, Z., Chen, M., Pan, J., **Jiang, L.**<sup>\*</sup>  
 • Impact Factor = 7.791



## CONFERENCE PROCEEDINGS

- 2020 ● **Construction and utilization of a core germplasm of Brassica napus**  
 第一届全国作物学科博士生论坛, Oct 2020  Taiyuan, CN  
 • 获取优秀奖
- 2019 ● **GWAS reveals new genes involved in leaf trichome formation in polyploid oilseed rape (Brassica napus L.)**  
 第十二届长三角作物学博士生论坛, Oct 2019  Yangzhou, CN  
 • 获取优秀奖