

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.



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❑ RESEARCH EXPERIENCE

present
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2021

- **Lecturer**
College of Agronomy 📍 Hunan Agricultural University

🎓 EDUCATION

2021
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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
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2012

- **B.S., Crop Genetics and Breeding**
Zhejiang University 📍 Hangzhou, CN

🏆 SCHOLARSHIPS & AWARDS

2021
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2020

- **浙江大学优秀毕业生**
Zhejiang University 📍 Hangzhou, CN

2020
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2019

- **浙江省优秀毕业生**
Zhejiang University 📍 Hangzhou, CN

- **Model Student of Academic Records and Merit Student**
Zhejiang University 📍 Hangzhou, CN

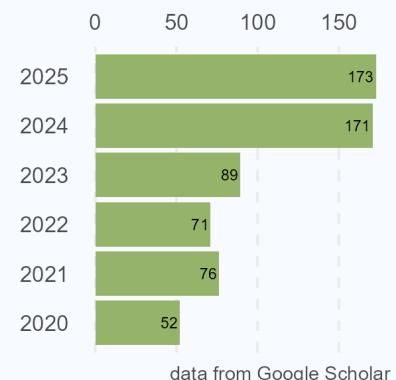
CONTACT

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[@TaoYan](https://twitter.com/TaoYan)
[🔗 github.com/YTLogos](https://github.com/YTLogos)
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Citation = 656

H-index = 13

I10-index = 15



Last updated on 2025-11-24.

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

✉ PUBLICATIONS

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

- 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.*

- 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.*

- 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