

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

✉ tyan@zju.edu.cn

🐦 [TaoYan](#)

🌐 github.com/YTLogos

🌐 taoyan.netlify.app

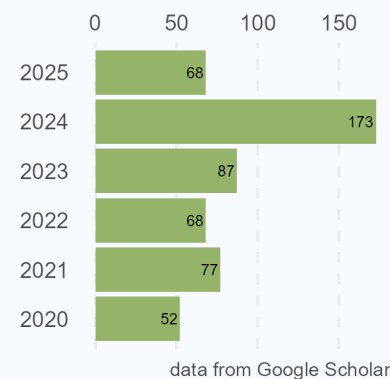
🔑 yt056410

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H-index = 12

I10-index = 14



Last updated on 2025-05-06.

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



PUBLICATIONS



2025	● Differentiation of genome-wide DNA methylation between japonica and indica rice	
	<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	● BnaSNPDB: An interactive web portal for the efficient retrieval and analysis of SNPs among 1,007 rapeseed accessions	
	<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	● BnaGVD: A genomic variation database of rapeseed (Brassica napus)	
	<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	● Genome-wide association study reveals new genes involved in leaf trichome formation in polyploid oilseed rape (Brassica napus L.)	
	<i>Plant, Cell & Environment</i> . 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
- 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*
 • 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