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 | 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

CONTACT

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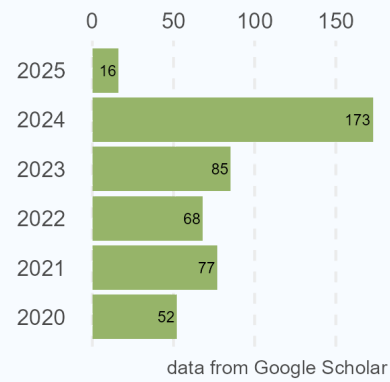

Last updated on 2025-02-06.

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
- 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