

CURRICULUM VITAE

Peijie Chen, Ph. D. Student

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Education:

- 2018.09 – present Combined Master & Ph. D. study, Agricultural Resource and Environment
College of Resources and Environmental Science, NAU, Nanjing, China
- 2014.09 – 2018.06 Bachelor of Agricultural Resource and Environment
College of Resource and Environmental Science, NAU, Nanjing, China

Awards:

- ✓ First-Class Academic Excellence Scholarship, NAU (2018, 2019, 2021)
- ✓ Outstanding student leader in Student Union (2015)

Research experience:

- ✓ Molecular mechanisms of efficient lignocellulose degradation by a newly described black yeast *Aureobasidium paleasum* at low temperature
- ✓ Environmental microbiology, soil microbial ecology, bioinformatics, statistical analysis & ecological modeling, geology, visual communication design
- ✓ Fungal genetics and genomics, interfungal interactions and the lateral gene transfer

Skills:

Microbiological techniques:	axenic cultures, microbial diagnostics by DNA barcoding, fungal morphology, microbial cultivations, light, confocal, and scanning electron microscopy
Molecular biological techniques:	qualitative and quantitative nucleic acid manipulation techniques, PEG-mediated protoplast transformation of fungi
Fungal ecophysiology:	BIOLOG phenotype microarrays, qualitative assays for enzymatic activity, dual confrontations of fungi, growth profiling.
Fungal genomics:	genome assembly, CAZy annotation, SM prediction, transcriptomics
Molecular evolution:	MSA, phylogenetics analyses, GCPSR.
Other skills:	phages, plant biochemical assays, soil properties

Publications:

- ✓ Jiang, G., **Chen, P.**, Bao, Y., Wang, X., Yang, T., Mei, X., Banerjee, S., Wei, Z., Xu, Y., Shen, Q. **2021**. Isolation of a novel psychrotrophic fungus for efficient low-temperature composting. **Bioresource Technology**. 331: 0960-8524.
- ✓ **Chen, P.**, Pang, G, Cai, F, Druzhinina, I. S. **2021**. Strain Improvement and Genetic Engineering of *Trichoderma* for Industrial Applications. Zaragoza O., and Casadevall A., eds. **Encyclopedia of Mycology**, Elsevier pp 505-517.
- ✓ Cai, F., Zhao, Z., Gao, R., **Chen, P.**, Ding, M., Jiang, S, Fu, Z., Xu, P., Chenthamara, K., Akcapinar, G. B., Shen, Q., Druzhinina, I. S. **2021**. The pleiotropic functions of intracellular hydrophobins in aerial hyphae and fungal spores. **Plos Genetics**. 17.11 (2021): e1009924.
- ✓ Zhao, Z., Cai, F., Gao, R., Ding, M., Jiang, S., **Chen, P.**, Pang, G., Chenthamara, K., Shen, Q., Akcapinar, G. B., Druzhinina, I. S. **2021**. At least three families of hyphosphere small secreted cysteine-rich proteins can optimize surface properties to a moderately hydrophilic state suitable for fungal attachment. **Environmental Microbiology**. 1462-2920.