

CURRICULUM VITAE

Personal Information			
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Research Interest			
1. Plant molecular biology 2. Genetic engineering and crop breeding 3. Rapeseed clubroot resistance			
Education & Working Experience			
Bachelor Study: 1991.9-1996.6 College of Life Science, Peking University PhD study: 1996.9-2004.10 Umea University, Sweden (supervisor: Prof. Glenn R. Bjork) Thesis: Function of wobble nucleoside modifications in tRNAs of Salmonella enterica Serovar Typhimurium. 2004.11-2006.10 postdoc, Department of Molecular Biology, Umea University, s-901 87, Umea, Sweden 2006.11-2010.02 Research Assistant, Department of Forest Genetics and Plant Physiology, Umea Plant Science Center(UPSC), Swedish Agricultural University, Umea, Sweden 2010.3-2011.6 Associate Senior Scientist, QingDao Institute of Bioenergy and Bioprocessing Technology (QIBEBT), Chinese Academy of Science, Qingdao, China 2011.7-present Associate Professor, Faculty of Plant Science and Technology, HuaZhong Agricultural University			



Publications

Publications as first (co-first) or (co-)corresponding author

- 1) Huang F[#], **Chen P[#]**, Tang X, Li Z, Cahoon EB*, Zhang CY*. Genome Assembly of the Brassicaceae Diploid *Orychophragmus violaceus* Reveals Complex Whole Genome Duplication and Evolution of Dihydroxy Fatty Acid Metabolism. *Plant Communications*. 2022 Sep 7; 100432. doi:<https://doi.org/10.1016/j.xplc.2022.100432>. (# co-first author)
- 2) Li X[#], Gao J[#], Song J, Guo K, Hou S, Wang X, He Q, Zhang Y, Zhang Y, Yang Y, Tang J, Wang H, Persson S, Huang M, Xu L, Zhong L, Li D, Liu Y, Wu H*, Diao X*, **Chen P***, Wang X*, Han Y*. Multi-omics analyses of 398 foxtail millet accessions reveal genomic regions associated with domestication, metabolite traits, and anti-inflammatory effects. *Mol Plant*. 2022 Aug 1;15(8):1367-1383.
- 3) Wang YY, Xiang XY, Huang F, Yu WL, Zhou XQ, Li BJ, Zhang YY, **Chen P***, Zhang CY*. Fine Mapping of Clubroot Resistance Loci CRA8.1 and Candidate Gene Analysis in Chinese Cabbage (*Brassica rapa* L.). *Front Plant Sci*. 2022 May 6;13:898108.
- 4) Li Q, Shah N, Zhou X, Wang H, Yu W, Luo J, Liu Y, Li G, Liu C, Zhang C, **Chen P***. Identification of Micro Ribonucleic Acids and Their Targets in Response to Plasmodiophora brassicae Infection in Brassica napus. *Front Plant Sci*. 2021, 12:734419. doi: 10.3389/fpls.2021.734419. eCollection 2021. (IF 5.753)
- 5) Lv ZY, Liu F, Zhang YB, Tu YY, Chen P*, Peng LC*. Ecologically adaptable Populus simonii is specific for recalcitrance-reduced lignocellulose and largely-enhanced enzymatic saccharification among woody plants. *GCB-Bioenergy*, 2020, doi: 10.1111/GCBB.12764. (IF 4.745)
- 6) Wang HL, Xu C, Zhang YB, Yan X, Jin XH, Yao XQ, **Chen P***, Zheng B. PtKTI12 genes influence wobble uridine modifications and drought stress tolerance in hybrid poplar. *Tree Physiology*, 2020, 40: 1778–1791. doi:10.1093/treephys/tpaa088. (Cover story)
- 7) Jin XH, Lv ZY, Gao JB, Zhang R, Zheng T, Yin P, Li DQ, Peng LC, Cao XT, Qin Y, Persson S, Zheng B, **Chen P***. AtTrm5a catalyses 1-methylguanosine and 1-methylinosine formation on tRNAs and is important for vegetative and reproductive growth in Arabidopsis thaliana. *Nucleic Acids Res*. 2019, 47: 883-898. (IF 11.56)
- 8) Wang Y, Pang C, Li X, Hu Z, Lv Z, Zheng B, **Chen P***. Identification of tRNA nucleoside modification genes critical for stress response and development in rice and Arabidopsis. *BMC Plant Biology*, 2017, 2017 Dec 21;17(1):261. (IF 3.93)
- 9) Wang YM, Li DQ, Gao JB, Li XK, Zhang R, Jin XH, Hu Z, Zheng B, Persson S, **Chen P***. The 2'-O-methyladenosine nucleoside modification gene OsTRM13 positively regulates salt stress tolerance in rice. *J Exp Bot*, 2017, 68(7):1479-1491. doi: 10.1093/jxb/erx061. (IF 5.68) citation: 6
- 10) Pei Y, Li Y, Zhang Y, Yu C, Fu T, Zou J, Tu Y, Peng L, **Chen P***. G-lignin and hemicellulosic monosaccharides distinctively affect biomass digestibility in rapeseed. *Bioresource Technology*, 2016, 203:325-333, DOI: 10.1016/j.biortech.2015.12.072. (IF 4.92)
- 11) Yan X, Jin X, Wang Y, Zheng B, **Chen P***. Recent Advances in the Role of the Elongator Complex in Plant Physiology and tRNA Modification: A Review. *Journal of Integrative Agriculture*. Advanced Online Publication: 2014, 13(8): 1640-1650. (IF=0.45)