

Ying Li



Areas of Research

Molecular biology, genetics, plant development and genetic breeding of *Brassica campestris* ssp. *chinensis*.

Contact Information

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Research Interests

Genetic breeding of *Brassica campestris* ssp. *chinensis*, Downey mildew resistance, vitamin C biosynthesis and metabolism, microspore culture, and QTL analysis.

Education Background

Bachelor: Shandong University

Doctor: Zhejiang University

Work experience

Postdoc, Nanjing University, 2002-2004

Associate/Full/Distinguished Professor, Nanjing Agricultural University, 2004-

Honors and Awards

Ministry of Education "the New Century Talents project"

Nanjing Agricultural University "Zhongshan Scholars Program"

Selected Publication

- 1) Liu TK, Duan WK, Chen ZW, Yuan JP, Xiao D, Hou XL, Li Y* (2020) Enhanced photosynthetic activity in pak choi hybrids is associated with increased grana thylakoids in chloroplasts. *The Plant Journal*, 103 :2211-2224
- 2) Yuan JP, Liu TK, Yu ZH, Li Y, Ren HB, Hou XL, Li Y* (2019) Genome-wide analysis of the Chinese cabbage IQD gene family and the response of BrIQD5 in drought resistance. *Plant Molecular Biology*, 99(6), 603-620
- 3) Yuan JP, Yu ZH, Lin TT, Wang L, Chen X, Liu TK, Wang JJ, Hou XL, Li Y* (2020) BcERF070, a novel ERF (ethylene-response factor) transcription factor from non-heading Chinese cabbage, affects the accumulation of ascorbic acid by regulating ascorbic acid-related genes. *Molecular Breeding* 40(2), DOI: 10.1007/s11032-019-1065-5
- 4) Hu D, Bent AF*, Hou XL, Li Y* (2019) *Agrobacterium*-mediated vacuum infiltration and floral dip transformation of rapid cycling *Brassica rapa*. *BMC Plant Biology*, 19:246
- 5) Liu TK, Qian Y, Duan WK, Ren J, Hou XL, Li Y* (2014) BcRISP1, isolated from non-heading Chinese cabbage, decreases the seed set of transgenic Arabidopsis. Horticulture research, *Horticulture Research* (2014) 1, 14062.
- 6) Song XM[†], Li Y[†], Liu TK, Duan WK, Huang ZN, Wang Li, Tan HW, Hou XL* (2014) Genes associated with agronomic traits in non-heading Chinese cabbage identified by expression profiling. *BMC Plant Biology*, 14(1): 71.
- 7) Duan WK, Song XM, Liu TK, Huang ZN, Ren J, Hou XL, Du JC, Li Y* (2015) Patterns of evolutionary conservation of ascorbic acid related genes during whole genome triplication in *Brassica rapa*. *Genome Biology and Evolution*, 7(1): 299-313.
- 8) Duan WK, Huang ZN, Song XM, Liu TK, Liu HL, Hou XL, Li Y* (2016) Comprehensive analysis of the polygalacturonase and pectin methylesterase genes in *Brassica rapa* shed light on their different evolutionary patterns. *Scientific reports*, 6: 25107.
- 9) Duan WK, Ren J, Li Y, Liu TK, Song XM, Chen ZW, Huang ZN, Hou XL, Li

- Y* (2016) Conservation and expression patterns divergence of ascorbic acid D-mannose/L-galactose pathway genes in *Brassica rapa*. **Frontiers in Plant Science**, 2016, 7:778.
- 10) Zeng AS, Yan JY, Song LX, Gao B, Zhang YX, Li JQ, Liu HH, Hou XL, Li Y* (2015) Induction and development of microspore-derived embryos in broccoli×white-headed cabbage hybrids microspore culture. **Euphytica**, 203: 261–272.
- 11) Cao XW, Cui HM, Yao Y, Xiong AS, Hou XL, Li Y*(2017) Effects of endogenous hormones on variation of shoot branching in a variety of non-heading Chinese cabbage and related gene expression. **Journal of Plant Biology**, 60 (4) :343-351
- 12) Ren J, Duan WK, Chen ZW, Zhang S, Song XM, Liu TK, Hou XL, Li Y* (2015) Overexpression of the monodehydroascorbate reductase gene from non-heading Chinese cabbage reduces ascorbate level and growth in transgenic tobacco. **PMBR**, 33(4):881-892
- 13) Wang XH, Zhang S, Hu D, Zhao XJ, Li Y, Liu TK, Wang JJ, Hou XL, Li Y* (2014) BcPMI2, isolated from non-heading Chinese cabbage encoding phosphomannose isomerase, improves stress tolerance in transgenic tobacco. **Molecular Biology Report**, 41(4):2207-2216
- 14) Sun CZ, Wang L, Hu D, Riquicho AR, Liu TK, Hou XL, Li Y* (2014) Proteomic analysis of non-heading Chinese cabbage infected with *Hyaloperonospora parasitica*. **J of Proteomics**, 98:15-30
- 15) Wang L, Peng HT, Ge TT, Liu TK, Hou XL, Li Y* (2014) Identification of differentially accumulating pistil proteins associated with self incompatibility of non-heading Chinese cabbage. **Plant Biology**, 16:49-57

Reference

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