

Curriculum Vitae for Nianjun Teng

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Professor Nianjun Teng

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Education

- 2006:** Ph.D. in Botany, Institute of Botany, the Chinese Academy of Sciences.
- 2003:** Master in Horticulture, Nanjing Agricultural University.
- 2000:** Bachelor in Horticulture, Yangzhou University.

Positions

- 2006.7-2008.12:** Assistant professor in College of Horticulture, Nanjing Agricultural University.
- 2008.12-2013.12:** Associate professor in College of Horticulture, Nanjing Agricultural University.
- 2013.12-present:** Professor in College of Horticulture, Nanjing Agricultural University.
- 2018.9-present:** Principal investigator of lily lab in Nanjing Agricultural University.

Research interests

Lily genetics, breeding, cultivation, and demonstration.

Selected publications (*corresponding author)

1. Wu Z, Liang JH, Wang CP, Ding LP, Zhao X, Cao X, Xu SJ, **Teng NJ***, Yi MY. Alternative splicing provides a mechanism to regulate LIHSFA3 function in response to heat stress in lily. **Plant Physiology**, 2019, 181: 1651–1667
2. Feng JX, Wu Z, Wang XQ, Zhang YM, **Teng NJ***. Analysis of pollen allergens in lily by transcriptome and proteome data. **International Journal of Molecular Science**, 2019, 20: 5892
3. Wang XQ, Wu Z, Wang LQ, Wu MJ, Zhang DH, Fang WM, Chen FD, **Teng NJ***. Cytological and molecular characteristics of pollen abortion in lily with dysplastic tapetum. **Horticultural Plant Journal**, 2019, 5(6): 281–294
4. Wang F, Zhong XH, Huang LL, Fang WM, Chen FD, **Teng NJ***. Cellular and molecular characteristics of pollen abortion in chrysanthemum cv. Kingfisher. **Plant Molecular Biology**, 2018, 98:233–247
5. Zhang FJ, Zhao JY, Xu SJ, Fang WM, Chen FD, **Teng NJ***. MicroRNA and putative target discoveries in chrysanthemum polyploidy breeding. **International Journal of Genomics**, 2017, Article ID 6790478
6. Zhang FJ, Hua LH, Fei JS, Wang F, Liao Y, Fang WM, Chen FD, **Teng NJ***. Chromosome doubling to overcome the chrysanthemum cross barrier based on insight from transcriptomic and proteomic analyses. **BMC Genomics**, 2016, 7: 585
7. Zhang FJ, Wang ZQ, Dong W, Sun CQ, Wang HB, Song AP, He LZ, Fang WM, Chen FD, **Teng NJ***. Transcriptomic and proteomic analysis reveals mechanisms of embryo abortion during chrysanthemum cross breeding. **Scientific Reports**, 2014, 4:6536
8. Wang XG, Wang HB, Chen FD, Jiang JF, Fang WM, Liao Y, **Teng NJ***. Factors affecting quantity of pollen dispersal of spray cut chrysanthemum (*Chrysanthemum morifolium*). **BMC Plant Biology**, 2014, 14:5
9. Teng NJ, Wang YL, Sun CQ, Fang WM, **Chen FD***. Factors influencing fecundity in experimental crosses of water lotus (*Nelumbo nucifera* Gaertn.) cultivars. **BMC Plant Biology**, 2012, 12:82
10. **Teng NJ**, Wang J, Chen T, Wu XQ, Wang YH, Lin JX. Elevated CO₂ induces physiological, biochemical and structural changes in leaves of *Arabidopsis thaliana*. **New Phytologist**, 2006, 172: 92–103

Funded Proposals as Principal Investigator

1. Effects of abrupt and gradual increase in CO₂ on sexual reproduction of *Arabidopsis thaliana*. The National Science Foundation of China, 2008-2010.
2. Reproductive barriers during chrysanthemum cross breeding. China Postdoctoral Science Foundation, 2007-2010.
3. Responses of plant growth and development to gradually increasing atmospheric CO₂ concentration. The International Foundation for Science (IFS), 2008-2011.
4. Cellular and proteomic studies on interaction of pollen and pistil during chrysanthemum cross breeding. The Natural Science Foundation of Jiangsu Province, 2010-2012.
5. Molecular mechanism of embryo abortion during chrysanthemum wide hybridization. The National Natural Science Foundation of China, 2012-2015.
6. Reproductive isolation during chrysanthemum cross breeding and improvement on chrysanthemum resistance. The Ministry of Education of China, 2012-2014.
7. Investigation on cellular and molecular mechanisms of pollen abortion in spray cut chrysanthemum. The National Natural Science Foundation of China, 2015-2018.
8. Metabolic regulation network of forest secondary growth response to rising temperature and CO₂ enrichment. The National Key Research and Development Program, 2016-2020.
9. Investigation on cellular and molecular mechanisms of pollen abortion in spray cut chrysanthemum. The National Natural Science Foundation of China, 2017-2020.
10. Conservation and research of Lily resources, A Project for conservation and research of plant resources in Nanjing Agricultural University, 2018-2020.
11. Promotion and demonstration of lily new cultivars and technologies. The earmarked fund for Jiangsu Agricultural Industry Technology System, 2018-2022.