



张绍铃老师 的个人信息

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发表论文:

- 已发表学术论文200多篇,其中SCI收录论文20多篇。代表性论文:
1. Wang CL, Xu GH, Jiang XT, Chen G, Wu J, Wu HQ, Zhang SL\* (张绍铃, 通信作者, 下同). 2009. S-RNase triggers mitochondrial alteration and DNA degradation in the incompatible pollen tube of *Pyrus pyrifolia in vitro*. The Plant Journal, 57, 220-229, (影响因子6.751)
  2. Haiyong Qu, Shaoling Zhang\*. Identification of hyperpolarization-activated calcium channels in apical pollen tubes of *Pyrus pyrifolia*, New Phytologist, 2007,174(3): 524-536 (影响因子5.249)
  3. Tao ST, Khanizadeh S, Zhang H, Zhang SL\*. 2009. Anatomy, ultrastructure and lignin distribution of stone cells in two *Pyrus* species. Plant Science, 176: 413-419.
  4. Zhu-qin Liu, Guo-hua Xu, Shao-ling Zhang\*. *Pyrus pyrifolia* stylar S-RNase induces alterations in the actin cytoskeleton in self-pollen and tubes in vitro. Protoplasma, 2007, 232:61-7.
  5. Huang SX., Wu HQ, Li YR, Wu J, Zhang SJ, Heng W, Zhang SL\*. 2008. Competitive interaction between two functional S-haplotypes confer self-compatibility on tetraploid Chinese cherry (*Prunus pseudocerasus* Lindl. CV. Nanjing Chuisi). Plant Cell Reports, 27: 1075-1085.
  6. Shao-Ling Zhang, S.-X. Huang, H. Kitashiba, T. Nishio. Identification of S-haplotype- specific F-box gene in Japanese plum (*Prunus salicina* Lindl.). Sex. Plant Reprod. 2007,20:1-8
  7. Zhang SJ, Huang SX, Heng W, Wu HQ, Wu J, Zhang SL\*. 2008. Identification of S-genotypes in 17 Chinese cultivars of Japanese plum (*Prunus salicina* Lindl.) and molecular characterisation of 13 novel S-alleles, The Journal of Horticultural Science & Biotechnology, 83, 635-640.
  8. Xu GH, Zhang SL\*. Yang YH, Zhao CP, Wolukau JN. 2008. Influence of endogenous and exogenous RNases on the variation of pollen cytosolic-free Ca<sup>2+</sup> in *Pyrus serotina* Rehd. Acta Physiol Plant. 30: 233-241.
  9. Heng W, Wu HQ, Huang SX, Zhang SJ, Wu J, Fang CQ, Zhang SL\*. 2008. Identification of S-genotypes and novel S-RNases in native Chinese pear, The Journal of Horticultural Science & Biotechnology, 83, 629-634.
  10. Heng W, Wu HQ, Chen QX, Wu J, Huang SX, Zhang SL\*. 2008. Identification of S-genotypes and novel S-RNase alleles in *Prunus mume*. The Journal of Horticultural Science and Biotechnology. 83, 689-694.
  11. Tao ST, Zhang SL, Tsao R, Charles MT, Yang R, Khanizadeh S. 2008. In vitro antifungal activity and mode of action of selected polyphenolic antioxidants on *Botrytis cinerea*. Accepted for Archives of Phytopathology & Plant Protection, DOI: 10.1080/03235400802583834
  12. Khanizadeh S, Tao ST, Zhang SL, Tsao R, Rekika D., Yang R, Charles MT. 2008. Antioxidant activities of newly developed day-neutral and June-bearing strawberry lines. Journal of Food, Agriculture & Environment 6(2): 306-311.
  13. Kitashiba H, Zhang SL, Wu J, Shirasawa K, Nishio T. 2008. S genotyping and S screening utilizing SFB gene polymorphism in Japanese plum and sweet cherry by dot-blot analysis. Mol Breeding, (21): 39-349.
  14. Shin Hiratsuka \*, Atsushi Hirano , Shao-Ling Zhang . Comparison of S-RNase, RNase T<sub>1</sub>, T<sub>2</sub>, and A effects on growth inhibition and RNA degradation of in vitro-cultured pear pollen. Scientia Horticulturae, 114(2007)159-163. doi:10.1016/j.scienta.2007.06.017
  15. Y. H. DU, H. Q. WU and S. L. ZHANG\* Fruit set after self-pollination at different floral stages and its relation to pollen-tube growth and stylar S-RNase content in Japanese apricot (*Prunus mume* Sieb. et Zucc.), Journal of Horticultural Science & Biotechnology (2007) 82 (5) 786-790
  16. Wu Hua-Qing , Shao-Ling Zhang \* Qu Hai-Yong. Molecular and genetic analyses of S4SM RNase allele in Japanese pear ' Osa-Nijisseiki' (*Pyrus pyrifolia* Nakai). Plant Breeding, 2007, 126, 77-82
  17. Shohei Takuno, Ryo Fujimoto, Tetsu Sugimura, Keiichi Sato, Shunsuke Okamoto, Shao-Ling Zhang\* and Takeshi Nishio. Effects of Recombination on Hitchhiking Diversity in the Brassica Self-incompatibility Locus Complex. Genetics Society of America, 2007(177):949-958.
  18. Zhang Yuyan, Wu Jun, Zhang Shaoling\*. Identification of S-Genotypes in Chinese pear cultivars and analysis of nucleotide sequence of new S-alleles. Acta Horticulturae. 2007,763,31-38
  19. Shao-Ling Zhang (张绍铃), Shin Hiratsuka. Analyses of pollen-tube growth and biological action of S-RNase in the style of self-compatible Japanese pear. Scientia Horticulturae 104 (2005) 169-178
  20. Joseph N, Wolukan, Shao-Ling Zhang (张绍铃)\*, Guohua Xu. The effect of temperature, polyamines

- and polyamine synthesis inhibitor on *in vitro* pollen germination and pollen tube growth of *Prunus mume* Scientia Horticulturae. 2004 99:289-299.
21. Shin Hiratsuka, Shao-Ling Zhang (张绍铃) \*. Self-incompatibility in Japanese pears: peculiar inhibitory action of S-RNase on self pollen-tube growth *in vitro*. Acta Hort, 2004, 589:
22. Hiratsuka S and Zhang SL\*, RNase T<sub>1</sub>, T<sub>2</sub> and A can not substitute for S-RNase in growth inhibition and RNA degradation of *in vitro*-grown pear pollen, International Symposium on plant Self- incompatibility, Japan. 2003, Sep. 17-18.
23. Shin Hiratsuka, Shao-Ling Zhang\* (张绍铃). Relationships between fruit set, pollen-tube growth, and S-RNase concentration in the self-incompatibility Japanese pear. Scientia Horticulturae, 2002, 95: 309-318.
24. Shin Hiratsuka, Shao-Ling Zhang\* (张绍铃). Cultivar Differences in the expression of self-incompatibility in Japanese pears. Acta Hort, 2002, 587: 437-449
25. 张绍铃, 平土冢伸, 徐国华, 房经贵, 刘友良. 梨自交不亲和及其亲和突变品种花柱内S<sub>4</sub>(S<sub>4</sub><sup>SM</sup>)基因的表达与作用的比较. 植物学报. 2001, 43(11):1172-1178. (SCI收录)
26. Shin Hiratsuka, Shao-Ling Zhang\* (张绍铃). Selective inhibition of the growth of incompatible pollen tubes by S-protein in the Japanese pear. Sex. Plant Reprod. 2001,13(4): 209-215.
27. Shao-Ling Zhang(张绍铃), Shin Hiratsuka. Cultivar and developmental differences in S-protein concentration and self-incompatibility in the Japanese pears. HortScience. 2000, 35(5): 917-920.
28. Shao-Ling Zhang (张绍铃), Shin Hiratsuka. Variations in S-protein levels in styles of Japanese pears and the expression of self-incompatibility. J. Japan. Soc. Hort. Sci. 1999, 68(5): 911-918.
29. Shao-Ling Zhang (张绍铃), Shin Hiratsuka. Analysis of varietal differences in self- and cross-incompatibility reactions of Japanese pears using stylar culture technique. J. Japan. Soc. Hort. Sci. 1999, 68(2): 373-383.

#### 科研项目:

承担和完成了的项目包括国家现代农业(梨)产业技术体系、国家公益性行业(农业)科技专项经费项目、国家自然科学基金、农业部948项目、高校博士点基金、‘863’项目子课题、国家科技支撑项目、国家留学基金委回国人员启动基金项目、省农业高新技术项目、科技部农业科技成果转化项目、省科委攻关项目等30多项;目前为国家现代农业(梨)产业技术体系首席科学家,主持国家公益性行业(农业)科技专项经费项目1项,农业部‘948’项目1项,国家863项目子课题1项,国家自然科学基金1项,国家科技支撑项目1项、子课题1项,省科技厅科技支撑项目2项,省资源开发局项目1项,省农林厅三项工程项目1项。

#### 荣誉及获奖:

2006年江苏省“333”人才工程第二层次培养对象入选者;  
2005年南京农业大学“133”人才工程果树学科优秀学术带头人;  
2004年南京农业大学国家生命科学与技术人才培养基地特聘教授;  
2003年江苏省“333”人才工程第二层次(学科带头人)入选者;  
2003年国务院政府特殊津贴;  
2003年及2007年当选第一、二届中国园艺学会梨分会副理事长;  
1991年被评为优秀共产党员;

#### 获得专利4个:

一种核糖核酸酶的提取方法, 2004年, ZL02137955.6  
一种培育梨自花结实性新种质的方法, 2005年, ZL200410014243.7  
李花粉自交不亲和基因型的分子标记鉴定方法, 2008年, ZL2007100200864  
柠檬酸提取梨花粉原生体的方法, 2006年, ZL200610037844.9

#### 已获得科技成果如下:

- 1)江苏省科技进步二等奖, 排名第一, 2004年
- 2)教育部提名国家科学技术奖(自然科学奖)二等奖, 排名第1名, 2002年
- 3)河南省科技进步二等奖, 排名第二, 2006年
- 4)河南省科技进步奖 短枝型苹果矿质营养特性及早果优质丰产配套技术与推广 2等奖 第4名 1997
- 5)农业部科技进步奖 短枝型苹果特性、栽培技术研究及其应用 2等奖 第4名 1993
- 6)山西省理论成果奖 矮砧苹果树营养生理研究 1等奖 第10名 1994
- 7)河南省农科系统科技进步奖 短枝型苹果栽培技术及其应用研究 2等奖 第4名 1993
- 8)河南省农科系统科技进步奖 短枝型苹果生理营养特性及早果优质丰产配套技术研究 2等奖 第4名 1997
- 9)河南省农科系统科技进步奖 河南省水果贮藏保鲜新技术研究及应用 2等奖, 第4名, 1993年
- 10)郑州市科技进步奖 矮化苹果苗木快速繁育技术试验 2等奖 第6名 1993

