CURRICULUM VITAE

Personal Information			
Name	Jinxiong Shen	Gender	Male
Position Title		Professor	
Working Department		Plant Genetics and Breeding	
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Research Interest

Molecular mechanism of newly discovered cytoplasmic male sterile and its restore;
Cloning and functional dissection of multiloculus genes in rapeseed;
Genetic mechanism of fatty acid biosynthesis;
Breeding of hybrids with elite yield and resistant traits and high quality

Professional Memberships

The Genetics Society of China;
Crop Science Society of China

Other Roles

Member of the Editorial Board of Acta Agronomica Sinica

Education & Working Experience

Education:

1. Sep. 1997-Jun. 2003, Ph. D., Crop Genetics and Breeding, Huazhong Agricultural University;
2. Sep. 1981-Jul. 1985, B. S., Agronomy, Huazhong Agricultural University

Working experience:

1. Apr. 2009-Oct. 2009, visiting worker in Plant Biotechnology Institute of National Research Council Canada;
2. Sep. 2006-present, Professor, Huazhong Agricultural University;
3. Jan. 1994-Aug. 2006, Research Associate, Oil Crop Research Institute, Chinese Academy of Agricultural Sciences;
4. Jul. 1985-Dec. 1993, Research Assistant, Hubei Academy of Agricultural Sciences

Publications

Partially list the first and the corresponding author's papers

1. Zhao L, Jing X, Chen L, Liu YJ, Liu TT, Su YN, Yi B, Wen J, Tu JX, Ma CZ, Zou JT, Gao CB, Fu TD, Shen JX (*). Tribenuron-methyl induces male sterility through anther-specific inhibition of acetolactate synthase leading to autophagic cell death. Molecular Plant, 2015, DOI: 10.1016/j.molp.2015.08.009
2. Xiong QF, Zhang XM, Wen J, Li XH, Fu TD, Shen JX(*).Comparation of nutritional values between rapeseed oil and several other edible vegetable oils—discussion of rapeseed quality genetic improvement. Journal of the Chinese Cereals and Oils Association, 2014, 29(6): 122-128
3. Heng SP, Wei C, Jing B, Wan ZJ, Wen J, Yi B, Ma CZ, Tu JX, Fu TD, Shen JX (*). Comparative analysis of mitochondrial genomes between the hau cytoplasmic male sterility (CMS) line and its iso-nuclear maintainer line in *Brassica juncea* to reveal the origin of the CMS-associated gene *orf288*. BMC Genomics, 2014, 15: 322 doi:10.1186/1471-2164-15-322
4. Xiong QF, Wen J, Li XH, Shen JX(*).Technological innovation and industrial development of rapeseed in China. Journal of Agricultural Science and Technology, 2014, 16(3): 14-22
5. Xu P, Lv ZW, Zhang XX, Wang XH, Pu YY, Wang HM, Yi B, Wen J, Ma CZ, Tu JX, Fu TD, Shen JX (*). Identification of molecular markers linked to trilocular gene (*mc1*) in *Brassica juncea* L. Molecular Breeding, 2014, 33(2): 425-434 DOI 10.1007/s11032-013-9960-7
6. Pu YY, Gao J, Guo YL, Liu TT, Zhu LX, Xu P, Yi B, Wen J, Tu JX, Ma CZ, Fu TD, Zou JT, Shen JX (*). A novel dominant glossy mutation causes suppression of wax biosynthesis pathway and deficiency of cuticular wax in *Brassica napus*. BMC Plant Biology, 2013, 13: 215 doi: 10.1186/1471-2229-13-215
7. Jing B, Heng SP, Tong D, Wan ZJ, Fu TD, Tu JX, Ma CZ, Shen JX (*). A male sterility-associated cytotoxic protein ORF288 in *Brassica juncea* causes aborted pollen development. Journal of Experimental Botany, 2012, 63(3): 1285-1295
8. Lv ZW, Xu P, Zhang XX, Wen J, Yi B, Ma CZ, Tu JX, Fu TD, Shen JX(*).Anatomical characteristics and genetic analysis of multi-locular in *Brassica juncea*. Chinese Journal of Oil Crop Sciences, 2012, 34(5): 461-466
9. Shen JX, Fu TD. Rapeseed production, improvement and edible oil supply in China. Journal of Agricultural Science and Technology, 2011, 13(1): 1-8
10. Zhu LX, Zhang DX,Fu TD, Shen JX(*). Analysis of quality traits of new winter rape varieties in recent years in China. Hubei Agricultural Sciences, 2011, 50(5): 905-908
11. Li HB, Yang J, Lv ZW, Yi B, Wen J, Fu TD, Tu JX, Ma CZ, Shen JX(*). Screening of *Brassica napus* core SSR primers. Chinese Journal of Oil Crop Sciences, 2010, 32(3): 329-336
12. Zhu LX, Zhang DX, Fu TD, Shen JX(*).Analysis of yield and disease resistance traits of new winter rapeseed variety in the past twenty years in China. Chinese Agricultural Science Bulletin, 2010, 26(24): 375-380
13. Shen JX, Qi LP, Yang J, Wen J, Yi B, Tu JX, Ma CZ, Fu TD. Discovery and preliminary study of a rod-like mutant in *Brassica napus* L. Chinese Journal of Oil Crop Sciences, 2009, 31(3): 380-382
14. Shen JX, Wang HZ, Fu TD, Tian BM. Cytoplasmic male sterility with self-incomptibility, a

novel approach to utilizing heterosis in rapeseed (*Brassica napus* L.). Euphytica, 2008, 162: 109-115
15. Shen JX, Wan ZJ, Jing B, Xiong QF, Fu TD. Progress on molecular mechanisms of cytoplasmic male sterility and fertility restoration in rapeseed. Chinese Journal of Oil Crop Sciences, 2008, 30(3): 374-383
16. Shen JX, Fu TD, Tu JX, Ma CZ. Potential in production and genetic improvement of rapeseed and the outlook for rap oil-based biodiesel in China. Journal of Huazhong Agricultural University, 2007, 26(6): 894-899
17. Shen JX, Fu TD, Yang GS, Tu JX, Ma CZ. Prediction of heterosis using QTLs for yield traits in *Brassica napus*. Euphytica, 2006, 151(2): 165-171
18. Shen JX, Fu TD, Yang GS, Ma CZ, Tu JX. Genetic analysis of rapeseed self-incompatibility lines reveals significant heterosis of different patterns for yield and oil content traits. Plant Breeding, 2005, 124(2): 111-116
19. Shen JX, Li ZY, Liao X, Guo QY. Effect of Phosphorus on Yield and Mineral Nutrient Absorption and Accumulation in Rapeseed (*Brassica napus* L.). Acta Agronomica Sinica, 2006, 32(8): 1231-1235
20. Shen JX, Fu TD, Yang GS, Ma CZ, Tu JX. Ananlysis of heterosis reveals genetic improvement for yield traits in rapeseed (*Brassica napus* L). Chinese Journal of Oil Crop Sciences, 2005, 27(1): 5-9
21. Shen JX, Lu GY, Fu TD, Yang GS, Wei ZL. Purity analysis on hybrid of self-incompatibility in *Brassica napus* L. Chinese Journal of Oil Crop Sciences, 2004, 26(4): 12-15
22. Shen JX, Fu TD, Yang GS. Relationship between hybrid performance and genetic diversity based on SSR and ISSR in *Brassica napus* L. Scientia Agricultura Sinica, 2004, 37(4): 477-483
23. Shen JX, Yi B, Fu TD, Yang GS. Overview on mapping of quantitative traits for plant. Chinese Bulletin of Botany, 2003, 20(3): 257-263
24. Shen JX, Fu TD, Yang GS. Relationship between hybrid performance and genetic diversity based on SSRs and ISSRs in Brassica napus L. Agricultural Sciences in China, 2003, 2(10): 1083-1090
25. 27.Shen JX, Fu TD, Yang GS. Heterosis of double low self-incompatibility in oilseed rape (Brassica napus L). Agricultural Sciences in China, 2002, 1(7): 732-737
26. Shen JX, Lu GY, Fu TD, Yang GS. Relationship between heterosis and genetic distance based on AFLPs in Brassica napus. Proceedings of the 11th International Rapeseed Congress, Copenhagen, Denmark, 2003, pp343-346
27. Shen JX, Fu TD, Yang GS. Heterosis of double low self -incompatibility line in oilseed rape (*Brassica napus* L). Scientia Agricultura Sinica, 2002, 35(9): 1060-1065
28. Shen JX, Lu GY, Fu TD, Yang GS. Relationships between genetic diversity and hybrid performance in oilseed rape (*Brassica napus*). Acta Agronomica Sinica, 2002, 28(5): 622-627
29. Shen JX, Fu TD, Yang GS. Primary study on heterosis of self-incompatibility in *Brassica napus*. Journal of Huazhong Agricultural University, 2001, 20(6): 528-830
30. Shen JX, Xu QZ. General research on tolerance of soybean to acid and aluminum toxicity. Chinese Journal of Oil Crop Sciences, 1998, 20(2): 91-96
31. Shen JX, Guo QY, Zhang XR, Zhao YZ, Feng XY, Chen HX, Wu XM. Cluster analysis of sesame germplasm collection in China. Journal of Huazhong Agricultural University, 1995,

14(6): 532-536
32. Shen JX. Studies and utilization of chlorine-containing chemical fertilizers in China. Hubei Agricultural Sciences, 1991, (11): 39-41
33. Shen JX. Direct determination of soil total carbohydrates (translations). Progress in soil science, 1994, 22(2): 40-44

Additional Information

Projects:

National Natural Science Foundation of China:

Molecular mechanism of the gene*orf288* associated to hau CMS, a novel cytoplasmic male sterility in *Brassicasceae*(31271761);

Cloning and functional dissection of the gene *Bjmc1* controlling the multiloculus in *Brassica juncea*(31571698).

National High Technology Research and Development Program of China (863):

Development and application of hybrid cultivar with strong heterosis in rapeseed (2009AA101105; 2011AA10A104).

Doctoral Fund of Ministry of Education of China :

Formation and function of *orf288* associated to hau CMS in *Brassicas* (20120146110011).