

生命与环境科学学院

College of Life and Environmental Sciences

遗传学硕士点简介

一、硕士点概况

遗传学硕士点依托我校生命与环境科学学院，遗传研究所以及植物种质资源开发服务中心建立于 1996 年，设基因定位与分子克隆、分子遗传学与基因工程、药用植物基因工程、微生物与转基因技术、植物分子生物学5个研究方向。目前承担科技部重大基础研究专项（863计划）、国家生物转基因研究专项、国家农业部948重大项目、国家自然科学基金项目，教育部留学归国基金项目、国家航天育种重大工程、上海市科委重大和重点项目、上海市浦江人才计划、上海市启明星计划、上海市教委重点项目以及上海市农委重大科技攻关项目等。近来，获得省级科学技术进步一等奖和二等奖各一项。

毕业的研究生具有很好的就业前景及深造机会。除了继续选择攻读博士学位之外，毕业生大多在上海市及长三角地区的科研院所以及高、中等院校从事科研、教学、科研、管理、研发等工作。近来的每年有三分之以上的毕业生就职于中科院上海生命科学院下属研究所。

主要课程：分子遗传学、分子细胞生物学、基因组学、分子生物学实验原理与技术，生化分离分析技术，生物信息学、植物遗传工程、蛋白质组学、药用植物代谢工程等。

二、研究方向

1. 基因定位与分子克隆
2. 分子遗传学与基因工程
3. 药用植物基因工程
4. 微生物与转基因技术
5. 植物分子生物学

三、师资队伍

董彦君	教授
开国银	教授
李建粤	副教授
林冬枝	副教授
张小明	研究员（兼职）
赵坚义	研究员（兼职）
张大兵	教授（兼职）
葛晓春	教授（兼职）
赵凌侠	教授（兼职）

四、代表性论文

1. LI Chao, LIN Dong-zhi, DONG Yan-jun, YE Sheng-hai, ZHANG Xiao-ming 2010 Genetic Analysis and Mapping of a Thermo-sensitive White Stripe-Leaf Mutant at Seedling Stage in Rice (*Oryza sativa*) *Rice Science*, 17(4): 276-281
2. Wenyi Yan , Shenghai Ye, Qingsheng Jin, Longjun Zeng, Yu Peng , Dawei Yan, Weibing Yang, Donglei Yang, Zuhua He, Yanjun Dong , Xiaoming Zhang 2010 Characterization and mapping of a novel mutant sms1(senescence and male sterility 1) in rice *J. Genet. Genomics* 37: 47-55
3. Lin Dongzhi Zhang Yongjuan Zhang Junzhi Luo Lijun Dong Yanjun 2010 Mapping of QTL for Seedling Growth Response to Phosphorus Deficiency in Rice (*Oryza sativa* L.) *Genomics and Applied biology* (1):10-16.
4. Dongzhi Lin, Junzhi Zhang, Hailong Zuo, Jianlong Xu, Lijun Luo, Yanjun Dong 2010 Mapping QTLs Associated with Leaf Senescence during Maturation of Rice (*Oryza sativa* L.) *Asian Journal of Plant Science* 9(1):51-57
5. Y. DONG, H. ZUO1, K. XIAO and J. XU 2009 Location of QTLs controlling panicle exertion in rice (*Oryza sativa* L.) *Rice Genetics Newsletter* 25:23-24
6. Y. J. Zhang, Y. J. Dong, J. Z. Zhang, K. Xiao, J. L. Xu, H. Terao 2009 Mapping QTLs for deficiency phosphorus response to root-growth of rice seedling. *Rice Genetics Newsletter* 25:36-37.
7. Dongzhi Lin, Y. Sugitomo, Yanjun Dong, E. Tsuzuki, M. Matsuo 2009 Allelopathic effects of *Canna indica* on paddy weeds *Allelopathy Journal* 24 (1): 169-176.
8. Jun-zhi ZHANG, Xiao LIU, Chao LI, Ke XIAO, Yan-jun DONG 2009 Genetic Analysis and Molecular Mapping of Light-Sensitive Red-Root Mutant in Rice. *Rice Science* 16(1):27-32
9. Junzhi Zhang, Ke Xiao, Yongjuan Zhang, Yanjun Dong, Jianlong Xu, Lijun Luo, M. Matsuo 2008 Quantitative Trait Loci Analysis for Plant Morphological Traits in Rice (*Oryza sativa* L.) Under Different Environments. *International Journal of Plant Breeding and Genetics* 2 (1): 1-8.
10. Yanjun Dong, Jianlong Xu, Zhikang Li, Ke Xiao, Yongquan Zhang, Junzhi Zhang, Lijun Luo, M. Matsuo 2008 Genomic regions associated with the degree of red coloration in brown-rice grains (*Sativa Oryza* L.) *Journal of Cereal Science* 48:556-560
11. FAN Gui-zhi, DONG Yan-jun, WANG Chun-ming, WAN Jian-min, XIE Hui1, XU Chang-liang, ZHU Jian-guo, CAI Qing-sheng. 2007. Analysis of QTLs for Flag Leaf Shape and Its Response to Elevated CO₂ in Rice (*Oryza sativa*). *Rice Science* (14):7-12

12. Yanjun Dong, Z. Yang, J. Luo, D.Lin, Y. Sugimoto, L. Luo, H. Mei 2007 Quantitative Trait loci for Leaf Chlorophyll content at two developmental stages of rice (*Oryza sativa* L.). *Communication in Biometry and Crop Science* 2(1): 1-7.
13. Hailong Zuo, Ke Xiao, Yanjun Dong, J. Xu, Z. Li, L. Luo, H. Mei 2007 Molecular Detection of Quantitative Trait loci for Leaf Chlorophyll Content at Different Growth-stages of Rice (*Oryza sativa* L.) *Asian Journal of Plant Sciences* 6(3):518-522.
14. Yanjun Dong, Ke Xiao, Hailong Zuo, M. Matsuo 2006 Stably expressed QTLs for grain shape in rice grown in two Asian countries. *IRRN* 31 (2): 47-48. International Rice Research Institute.
15. Yanjun Dong, H. Kamiuten, Zhongnan Yang, Dongzhi Lin, T. Ogawa, Lijun Luo, H. Matsuo 2006 Mapping of quantitative trait loci for gibberellic acid response at rice (*Oryza sativa* L.) seedling stage *Plant Science* 170(1) 12:12-17
16. Yanjun Dong, Tsugufumi Ogawa, Dongzhi Lin, Hee-Jong Koh, Hiroshi Kamiuten, Mitsuhiro Matsuo, Shihua Cheng. 2006. Molecular mapping of quantitative trait loci for zinc toxicity tolerance in rice seedling (*Oryza sativa* L.) *Field Crops Research* 95:420-425
17. Ke Xiao, Hailong Zuo, Yanjun Dong, Lijun Luo, Hanwei Mei and M. Matsuo 2006 Genetic Mapping of QTLs for Grain Dimension in Rice Grown in Two Asian Countries. *Asian Journal of Plant Sciences* 5 (3): 516-520
18. Dongzhi Lin, Yasuhiro Sugimoto, Yanjun Dong, H. Terao, M. Matsuo 2006 Natural herbicidal potential of saururaceae (*Houttuynia cordata* Thunb) dried powders on paddy weeds in transplanted-rice. *Crop Protection*(25):1126-1129
19. YANJUN DONG, DONGZHI LIN, Y. SUGIMOTO, LIJUN LUO, HANWEI MEI and M. MATSUO 2006 Molecular mapping of QTLs associated with allelopathic effect on lettuce (*Lactuca sativa* L.) root growth using recombinant inbred population in rice(*Oryza sativa* L.) *Allelopathy Journal* (2) :199-206
20. Y. J. Dong, T. Ogawa, D.Z. Lin, H. Kamiuten, H. Terao and H. Matsuo. 2005. Detection of QTLs for leaf chlorophyll content at the maximum tillering stage of rice. *IRRN* 30(1): 16-17 International Rice Research Institute.
21. Yanjun Dong, E. Tsuzuki, H. Kamiuten, D. Lin, H. Terao, M. Matsuo, S. Cheng. 2005. Molecular genetic analysis of ferulic acid content in dried straw of rice (*Oryza sativa* L.) *Biochemical Genetics* 43(1):25-34
22. Guoyin Kai*, Hui Xu, Congcong Zhou, Pan Liao, Jianbo Xiao, Xiuqin Luo, Lijia You, Lin Zhang. Metabolic engineering tanshinone biosynthetic pathway in *Salvia miltiorrhiza* hairy root cultures. *Metabolic engineering* 2011, 13(3): 319–327 (SCI Journal, IF=4.725)
23. Guoyin Kai*, Sheng Yang, Xiuqin Luo, Wentao Zhou, Xueqing Fu, Ang Zhang, Yan Zhang, Jianbo Xiao. Co-expression of AaPMT and AaTRI effectively enhances the yields of tropane alkaloids in *Anisodus acutangulus* hairy roots. *BMC Biotechnology* 2011, 11:43 (SCI Journal)
24. Lin Zhang, Xiangming Yan, Jing Wang, Shanshan Li, Pan Liao, Guoyin Kai*. Molecular cloning and expression analysis of a new putative gene encoding 3-hydroxy-3-methylglutaryl-CoA synthase (HMGS) from *Salvia miltiorrhiza*. *Acta Physiologiae Plantarum* 2011, 33(3):953–961 (SCI Journal)
25. Guoyin Kai*, Yuanyuan Liu, Xiaoyun Wang, Xiaoling Ni, Sheng Yang, Xueqing Fu, Xiuqin Luo, Pan Liao. Functional identification of hyoscyamine 6 β -hydroxylase from *Anisodus acutangulus* and overproduction of scopolamine in engineered *Escherichia coli*. *Biotechnology letters* 2011, 33:1361–1365
26. Congcong Zhou; Zhongying Qian; Qian Ji; Jianbo Xiao; Hui Xu; Lili Chen; Xiuqing Luo; Kexuan Tang; Guoyin Kai*. Expression of the zga agglutinin gene in tobacco can enhance its anti-pest ability for peach-potato aphid (*Myzus persica*) *Acta Physiologiae Plantarum* 2011, DOI: 10.1007/s11738-011-0715-y (Published online: 4 February 2011, SCI Journal)
27. Guoyin Kai*, Sheng Yang, Yan Zhang, Xiuqin Luo, Xueqing Fu, Ang Zhang, Jianbo Xiao. Effects of different elicitors on yield of tropane alkaloids in hairy roots of *Anisodus acutangulus*. *Molecular Biology Reports* 2011 DOI: 10.1007/s11033-011-0912-1 (Published online: 28 May of 2011, SCI Journal)
28. Shi J, Tan HX, Yu XH, Liu YY, Liang WQ, K Ranathunge, R Benni Franke, L Schreiber, Wang YJ, Kai GY, J Shanklin, Ma H and Zhang DB, Defective Pollen Wall (DPW) Is Required for Anther and Microspore Development in Rice and Encodes a Fatty Acyl ACP Reductase, *The Plant Cell*. 2011 (SCI Journal, Accepted)
29. Jianbo Xiao, Guoyin Kai, Xiaoling Ni, Fan Yang, Xiaoqing Chen. Interaction of natural polyphenols with α -amylase in vitro: molecular property affinity relationship aspect. *Molecular Biosystems*, 2011, 7:1883–1890 (SCI Journal)
30. Jianbo Xiao, Guoyin Kai, Xiaoqing Chen. Effect of CdTe QDs on the protein-drug interactions. *Nanotoxicology*, 2011 (Published online: 5 May 2011, SCI Journal)
31. Guoyin Kai*, Pan Liao, Tong Zhang, Wei Zhou, Jing Wang, Hui Xu, Yuanyun Liu and Lin Zhang. Characterization, expression profiling and functional identification of a gene encoding geranylgeranyl diphosphate synthase from *Salvia miltiorrhiza*. *Biotechnology and Bioprocess Engineering* 2010, 15(2): 236-245 (SCI Journal)
32. Hui Xu, Lin Zhang, Congcong Zhou, Jianbo Xiao, Pan Liao, Guoyin Kai*. Metabolic regulation and genetic engineering of pharmaceutical component tanshinone biosynthesis in *Salvia miltiorrhiza*. *Journal of Medicinal Plant Research* 2010, 4(24), 2591-2597 (SCI Journal)
33. Hui Xu, Pan Liao, Jianbo Xiao, Qianfei Zhang, Yanjun Dong, Guoyin Kai*. Molecular cloning and characterization of glutamate decarboxylase cDNA from the giant-embryo *Oryza sativa*. *Archives of Biological Sciences*, 2010, 62 (4), 873-879 (SCI Journal)
34. Guoyin Kai*, Li Li, Yuxin Jiang, Xiangming Yan, Yan Zhang, Xuan Lu, Pan Liao, Jianbo Chen. Molecular cloning, characterization of two tropinone reductases in *Anisodus acutangulus* and enhancement of tropane alkaloids production in AaTRI-transformed hairy roots. *Biotechnology and Applied Biochemistry* 2009, 54 (3) : 177-186 (SCI Journal)
35. Guoyin Kai*, Yan Zhang, Junfeng Chen, Li Li, Xiangming Yan, Ran Zhang, Pan Liao, Xuan Lu, Wei Wang, Genyu Zhou. Molecular Characterization and Expression Analysis of Two Distinct Putrescine N-methyltransferases from Roots of *Anisodus acutangulus*. *Physiologia Plantarum*. 2009, 135 (2) : 121-129 (SCI Journal)
36. Pan Liao, Wei Zhou, Lin Zhang, Jing Wang, Xiangming Yan, Yan Zhang, Ran Zhang, Li Li, Genyu Zhou, Guoyin Kai*. Molecular Cloning, characterization and expression analysis of a new gene encoding 3-hydroxy-3-methylglutaryl coenzyme A reductase from *Salvia miltiorrhiza*. *Acta Physiologiae Plantarum*, 2009, 31 (3) : 565-572 (SCI Journal)
37. Yang Lu, Hongshen Wang, Wei Wang, Zhongying Qian, Li Li, Jing Wang, Genyu Zhou, Guoyin Kai*. Molecular Characterization and Expression Analysis of a New cDNA Encoding Strictosidine Synthase from *Ophiorrhiza japonica*. *Molecular biology reports* 2009, 36(7):1845-52 (SCI Journal)
38. Yan Xiangming, Zhang Lin, Wang Jing, Pan Liao, Yan Zhang, Ran Zhang, Guoyin Kai*. Molecular characterization and expression of 1-deoxy-D-xylulose 5-phosphate reductoisomerase (DXR) gene from *Salvia miltiorrhiza*. *Acta Physiologiae Plantarum*, 2009, 31 (5) :1015–1022 (SCI Journal)
39. Guoyin Kai*, Liming Dai, Xinyuan Mei, Jingui Zheng, Wei Wang, Yang Lu, Zhongying Qian, Genyu Zhou. In vitro plant regeneration from leaf explants of *Ophiorrhiza japonica*. *Biologia Plantarum* 2008, 52 (3): 557-560 (SCI Journal)
40. Li Li, Jing Wang, Wei Wang, Yang Lu, Yuliang Wang, Genyu Zhou, Guoyin Kai*. Optimization of induction and culture conditions and tropane alkaloid production in hairy roots of *Anisodus acutangulus*. *Biotechnology and Bioprocess Engineering* 2008, 13: 606-612 (SCI Journal)

41. Guoyin Kai*, Junfeng Chen, Li Li, Genyu Zhou, Limin Zhang, Lei Zhang, Yuhui Chen, Linxia Zhao. Molecular cloning and characterization of a new cDNA encoding hyoscyamine 6 β -hydroxylase from roots of *Anisodus acutangulus*. *Journal of Biochemistry and Molecular Biology*, 2007, 40(5): 715- 722(SCI Journal)
42. Binhui Guo+, Guoyin Kai+, Yifu Gong, Hongbin Jin, Yechun Wang, Zhiqi Miao, Xiaofen Sun, Kexuan Tang*. Molecular cloning and heterologous expression of a 10-deacetylbaocatin III-10-O-acetyl transferase cDNA from *Taxus x media*. *Molecular biology reports* 2007,34:89-95 (co-first author, SCI Journal)
43. Lei Zhang, Bin Yang, Beibei Lu, Guoyin Kai, Zinan Wang, Yang Xia, Ruxian Ding, Hanming Zhang, Xiaofen Sun, Wansheng Chen, Kexuan Tang*. Tropene alkaloids production in transgenic *Hyoscyamus niger* hairy root cultures over-expressing Putrescine N-methyltransferase is methyl jasmonate-dependent. *Planta*, 2007,225(4):887-896(SCI Journal)
44. Zhang L, Wang Z, Xia Y, Kai G, Chen W, Tang K*. Metabolic engineering of plant L-ascorbic acid biosynthesis: recent trends and applications. *Critical Reviews in Biotechnology*.2007, 27(3):173 – 182 (SCI Journal)
45. Guoyin Kai*, Yang Lu, Zhongying Qian, Yongting Luo, Genyu Zhou, Kexuan Tang. Molecular characterization and expression analysis of a gene encoding mannose -binding lectin from bulb of *Zephyranthes grandiflora*. *Biologia* 2006, 61(6): 671-677(SCI Journal)
46. Guoyin Kai, Zhiqi Miao, Lei Zhang, Dongli Zhao, Zhihua Liao, Xiaofen Sun, Lingxia Zhao, Kexuan Tang*. Molecular cloning and expression analyses of a new gene encoding 3-hydroxy-3-methylglutaryl -CoA synthase from *Taxus x media*. *Biologia Plantarum* 2006,50 (3): 359-366 (SCI Journal)
47. Guoyin Kai, Jihong Jiang, Dongli Zhao, Lingxia Zhao, Lei Zhang, Zhugang Li, Binhui Guo, Xiaofen Sun, Zhiqi Miao, Kexuan Tang*. Isolation and expression profile analysis of a new cDNA encoding 5-alpha-taxadienol-10-beta-hydroxylase from *Taxus x media*. *Journal of Plant Biochemistry and Biotechnology* 2006,15(1): 1-5 (SCI Journal)
48. Dongli Zhao, Le Li, Qian Wang, Guoyin Kai, Xiang Wang, Lu Wang, Xiaofen Sun, Kexuan Tang*. Cloning of taxane 2 α -O-benzoyltransferase (TBT) genomic DNA from *Taxus*. *Biologia* 2006,61(3): 327-329 (SCI Journal)
49. Jihong Jiang, Guoyin Kai, Xiaoyin Cao, Fengmei Chen, Dongning He, Qun Liu. Molecular cloning and function identification of a new HMG-CoA reductase gene from *Eucommia ulmoides* Olive. *Bioscience reports* 2006,26(2):171-181(SCI Journal)
50. Guo BH, Kai Y, Jin HB, K.X. Tang. Taxol synthesis. *African journal of biotechnology* 2006, 5(1): 15-20 (SCI Journal)
51. Guoyin Kai, Lingxia Zhao, Lei Zhang, Zhugang Li, Binhui Guo, Dongli Zhao, Xiaofen Sun, Zhiqi Miao, Kexuan Tang*. Characterization and expression profile analysis of a new cDNA encoding taxadiene synthase from *Taxus media*. *Journal of Biochemistry and Molecular Biology* 2005,38(6): 675-685 (SCI Journal)
52. Guoyin Kai, Lingxia Zhao, Lei Zhang, Zhugang Li, Binhui Guo, Dongli Zhao, Xiaofen Sun, Zhiqi Miao, Kexuan Tang*. Characterization and expression profile analysis of a new cDNA encoding taxadiene synthase from *Taxus media*. *Journal of Biochemistry and Molecular Biology* 2005,38(6): 675-685 (SCI Journal)
53. Zhonghai Chen, Guoyin Kai, Xiaojun Liu, Juan Lin, Xiaofen Sun, Kexuan Tang*. Molecular cloning and characterization of a mannose-binding lectin gene from *Zingiber officinale* Roscoe (ginger) rhizomes. *Journal of Biosciences* 2005, 30(2): 213-220 (SCI Journal)
54. Zhihua Liao, Yifu Gong, Guoyin Kai, Kaijin Zuo, Min Chen, Qiumin Tan, Yamin Wei, Liang Guo, Feng Tan, Xiaofen Sun, Kexuan Tang*. An Intron-free Methyl Jasmonate Inducible Geranylgeranyl Diphosphate Synthase Gene from *Taxus media* and its functional identification in yeast. *Molecular Biology* 2005, 39(1):14-20.(SCI Journal)
55. Lingxia Zhao, Chengxiang Qiu, Jingfu Li, Yourong Chai, Guoyin Kai, Zhugang Li, Xiaofen Sun, Kexuan Tang. Investigation of disease resistance and cold tolerance of *Solanum lycopersicoides* for tomato improvement. *HortScience* 2005, 40(1):43-46 (SCI Journal)
56. Yifu Gong, Zhihua Liao, Min Chen, Kaijin Zuo, Liang Guo, Qiumin Tan, Zhushi Huang, Guoyin Kai, Xiaofen Sun, Feng Tan, Kexuan Tang. Molecular cloning and characterization of a 1-deoxy-D-xylulose 5-phosphate reductoisomerase gene from *Ginkgo biloba*. *DNA Sequence* 2005, 16(2):111-120 (SCI Journal)
57. Lei Zhang+, Guoyin Kai +, Beibei Lu, Hanming Zhang, Kexuan Tang, Jihong Jiang, Wansheng Chen*. Metabolic Engineering of Tropene Alkaloid Biosynthesis in Plants. *Journal of Integrative Plant Biology* 2005, 47(2): 136-143 (SCI Journal, co-first author)
58. Zhugang Li, Chongshi Cui, Lingxia Zhao, Guoyin Kai, Lida Zhang, Xiaofen Sun, Kexuan Tang*. Molecular cloning and characterization of an anti-bolting related gene (*BcpFLC3*) from *Brassica campestris* ssp. *Pekinensis*. *Plant Science* 2005, 168: 407-413 (SCI Journal)
59. Guo-chao Zhao, Huan-yu Wang, Jie Bai, Jian-yue Li. Analysis on the RNA expression of the Rice Glutelin Multigene Families. *Seed Science and Technology*.2010,38(1):96-103
60. Jian-yue Li, Shen-zhong Xu, Li-jun Yang, Yong-guo Zhou, Shi-jing Fan, Wei Zhang. Breeding elite japonica-type soft rice with high protein content through the introduction of the anti-Waxy gene. *African Journal of Biotechnology*, 2009, 8 (2) : 161-166
61. LI Jianyue, MAO Wanxia, YANG Lijun, ZHOU Genyu, LIU Jia, YAN Qitao, MI Dong. Introducing antisense waxy gene into rice seeds reduces grain amylose contents using a safe transgenic technique. *Chinese Science Bulletin*.2005, 50 (1) : 39-44
62. 马健阳, 陈孙祿, 张建辉, 董彦君, 滕胜 2011 一个水稻类病条纹斑突变体的鉴定和遗传定位 *中国水稻科学* 25(2):150-156
63. 严雯奕 叶胜海 董彦君 金庆生 张小明 2010 植物叶片衰老相关研究进展 *作物杂志* 137(4):4-9
64. 陈佳颖, 赵剑, 刘晓, 李超, 林冬枝, 董彦君, 叶胜海, 张小明 2010 一个新的水稻温敏感叶色突变体遗传分析及其基因分子定位. *植物学报 Chinese Bulletin of Botany* 2010, 45(4):419-425,
65. 李超, 林冬枝, 董彦君, 叶胜海, 张小明 2010 一个水稻苗期温敏感白色条纹斑叶突变体的遗传分析及基因定位 *中国水稻科学* 24 (3): 223-227
66. 祁鲁 刘晓 陈佳颖 林冬枝 董彦君 徐建龙 2010 一个新的水稻温敏感叶色突变体基因定位分析 *核农学报* 24(2):220-224
67. 刘晓, 巩迎军, 董彦君, 林冬枝 一个水稻苗期耐冷性的主效QTL精细定位研究 2009 *中国农学通报*, 22(25): 62-66
68. 林冬枝, 董彦君, 续荣治 2009 麦冬块根提取物对稻瘟病菌丝及苗期稻瘟病发生的抑制效果 *中国农学通报*25(9):220-223
69. 林冬枝, 董彦君, 续荣治 2009 麦冬块根提取物对植物病原菌抑菌活性的初步研究 *安徽农业科学* 37(9):4187-4188.
70. 巩迎军, 阮雯君, 苟星, 董彦君, 林冬枝, 叶胜海, 张小明 2009 水稻芽性状耐冷性的QTL分析 *分子植物育种* 7(2):273-278
71. 巩迎军, 冯杰, 肖珂, 董彦君, 林冬枝 2008 日本水稻品种越光稻米的外观品质性状的QTL遗传剖析 *中国农学通报* (12):96-102.
72. 张俊芝, 刘晓, 李超, 肖珂, 董彦君 2008 光照敏感型水稻红根突变体遗传分析及其基因的分子定位 *中国水稻科学*22(6):578-582
73. 张永娟 刘雯君, 张跃跃, 张俊芝, 巩迎军, 董彦君 2008 水稻苗期形态性状的QTL定位 *上海师范大学学报* 37(5):513-518
74. 肖珂, 左海龙, 巩迎军, 张俊芝, 张永娟, 董彦君. 2008 控制水稻穗伸出度和株高的数量性状基因定位. *中国农学通报* 24(5):95-99.
75. 左海龙, 肖珂, 张永娟, 张俊芝, 巩迎军, 董彦君 2007 控制水稻叶片叶绿素含量及其离体叶片叶绿素降解速度相关的QTL定位 *分子细胞生物学报*40 (5):146-350
76. 肖珂, 左海龙, 巩迎军, 张俊芝, 张永娟, 董彦君 2007 控制水稻剑叶形态相关性状的量基因位点(QTL)的定位 *上海师范大学学报*36(2):66-70.
77. 杨瑞, 张红梅, 任永刚, 周永国, 李建粤. Anti-Waxy基因不同整合位点对降低稻米直链淀粉含量的影响及整合位点分析. *分子植物育种*, 2010.8(4): 647-651

78. 于洋, 石少华, 许昱, 赵国超, 李建粤. 提高培养温度建立水稻成熟胚再生体系. 种子, 2009, 28(10): 36-40
79. 许昱, 王幻予, 张伟, 李建粤. "中花11"水稻谷蛋白基因Gt1克隆及蜡质基因启动子引导Gt1表达载体的构建. 上海师范大学学报, 2010, (2): 204-209
80. 杨瑞, 周永国, 张建中, 陆雯灏, 邱梅红, 李建粤. 水稻不育系261S矮化突变体及其F1"新闵优香粳"杂交稻的性状分析. 西北植物学报, 2009, 29(10): 1967-1973
81. 杨丽君, 戎益泉, 张善明, 李建粤. 植物安全性表达载体的构建策略: 以表达水稻反义蜡质基因的载体构建为例. 分子植物育种, 2009, 7(5): 1027-1031
82. 王幻予, 张晓雷, 沈忠伟, 石少华, 李建粤. 16个水稻品种稻米贮藏蛋白组分比较研究. 种子, 2008, 27(12): 8-11
83. 徐申中, 顾婷玉, 于洋, 李建粤. 水稻5.3kbGt1启动子克隆以及Gt1启动子引导优质大豆球蛋白基因Gy7表达载体构建. 现代农业科学, 2008, (11): 14-17
84. 李建粤, 吕英海, 杨丽君, 周永国, 李双艳. 导入Anti-Waxy降低"湘晴"稻米直链淀粉含量改良杂交稻食味品质. 西北植物学报, 2008, 27(10): 2108-2112
85. 顾婷玉, 李建粤, 米东, 肖刚. 南农87C-38大豆优质11S球蛋白基因Gy7克隆及序列分析. 大豆科学, 2007, 26(6): 840-846
86. 尹中明, 徐申中, 周永国, 李建粤. 含不同Anti-Waxy基因拷贝数的稻米直链淀粉含量分析. 西北植物学报, 2007, 27(10): 2108-2111
87. 李建粤, 毛万霞, 范士靖, 吕英海. 导入反义蜡质基因改良水稻稻米的食味品质和营养品质. 植物研究, 2007, 27(1): 94-98
88. 杨丽君, 张伟, 李建粤, 张慧琦. 水稻白化突变体遗传、超微结构及电泳分析. 种子, 2005, 24(9): 12-15

五、主要科研项目

1. 一个水稻穗发芽的主效qPHS-4的精细定位与功能分析【国家自然科学基金(30971552)】
2. 甲基茉莉酸高效调控丹参酮生物合成的分子机理研究【国家自然科学基金(30900110)】
3. 纳米通道用于环境样品中阿特拉津残留的分离传感研究【国家863计划(2007AA06Z402)】
4. 水稻回交导入系的构建与种质资源有利基因的高效发掘【国家农业部948重大项目子专题(2006-G1)】
5. 转基因产品高通量、快速、精确核酸检测新技术研究【国家转基因重大专项子专题(2009ZX08012-002B)】
6. 水稻节水稳产新基因及启动子的克隆与功能验证【国家转基因重大专项子专题】
7. 新型高含功能性营养成分的超大巨胚稻米种质创新研究【国家航天育种工程项目(2006HT100013)】
8. 控制水稻剑叶衰老基因的定位与克隆【国家教育部留学生回国基金项目】
9. 作物抗旱基因(QTL)定位和克隆【上海市科委重大基础项目(05DJ14008)】
10. 水稻抗旱基因定位研究【上海市科委重大基础项目(09DJ1400505)】
11. 丹参酮高产的丹参新种质的研制【上海市科委基础研究重点项目(10JC1412000)】
12. 富含γ-氨基丁酸的功能性稻米品种选育及其生物合成的分子调控研究【上海市科委重点科技攻关计划(075405117)】
13. 具有多功能营养的巨胚黑米水稻新品种的分子育种研究【上海市科委重点项目(09391912300)】
14. 青蒿药物植物产品关键技术研究与应用【上海市科委重点科技攻关项目子课题(08391911800)】
15. 抗条纹叶枯病、高产、优质香型水稻种质创新,【上海市科委重点项目】
16. 云南省石斛种质资源的收集保护与开发利用【上海市科委西部开发科技合作项目(065458022)】
17. 多功能樱桃番茄新品种的培育【上海市科委振兴东北科技合作项目(073158202)子课题】
18. 利用分子标记辅助选育抗条纹叶枯病优质高产水稻新品种【上海市科委长三角合作项目】
19. 控制水稻秧龄弹性主效QTL精细定位与克隆【上海科委浦江人才项目(06PJ14074)】
20. 一个水稻穗发芽的主效QTL的精细定位与功能分析【上海科委浦江人才项目(08PJ14085)】
21. 喜树碱生物合成的次生代谢调控研究【上海市青年科技启明星跟踪项目(09QH1401900)】
22. 日本蛇根草中喜树碱生物合成的代谢工程研究【上海市青年科技启明星计划(06QA14038)】
23. 利用基因工程技术提高三分三中东莨菪碱含量的研究【上海市自然科学基金项目(05ZR14093)】
24. 富含具有调节人体血压的活性成分GABA的稻米新品种选育研究【上海市教委重点项目(06ZZ21)】
25. 丹参酮生物合成途径中关键酶基因的克隆及鉴定【上海市教委科研创新重点项目(09ZZ138)】
26. 通过改变水稻贮藏蛋白分布提高水稻营养品质研究【上海市教委重点项目】
27. 高蛋白水稻育种【上海市科委科技引导重点项目】
28. 利用转基因技术培育杂交粳稻新组合【上海市农委科技兴农重点攻关项目】

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