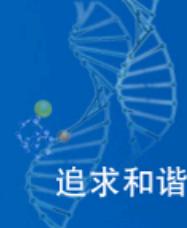




追求卓越



追求完美



追求和谐

福建农林大学生命科学学院 - 师资队伍->生科院师资队伍->师资队伍-正高职称

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《分子植物育种》执行主编

《遗传》副主编

《科学通报》编委

荣誉称号

新世纪“百千万人才工程”国家级人选

享受国务院政府特殊津贴专家

福建省教学名师

研究领域和方向

分子数量遗传学: 数量性状基因座 (QTL) 定位和克隆

分子遗传学与分子生物学: 分子标记开发; 分子遗传图谱构建; 基因克隆和功能分析

基因组学与生物信息学: 转录组分析 (基因芯片, 深度测序); 基因组进化

植物分子育种: 分子标记辅助育种; 基因工程

科研课题

(仅列出近5年承担的课题)

一个水稻苗期低温失绿基因*cisc(t)*的克隆与功能分析, 国家自然科学基金项目(31071399), 2011-2013

水稻营养生长与花器官发育多效基因*DDF1*的克隆与功能分析, 国家自然科学基金项目(30970175), 2010-2012; 教育部博士点基金, 2009-2011

烟草SSR标记开发及应用, 中国烟草总公司云南省公司科技项目, 2010-2011

水稻高叶绿素含量基因、单侧卷叶基因和包穗基因的克隆与功能验证, 国家转基因重大专项(2009ZX08009-109B), 2009-2011

福建特色烤烟新品种选育研究, 分子标记辅助育种, 福建省烟草专卖局科技项目, 2008-2012

松树内含子多态性标记开发及其在遗传作图中的应用, 国家自然科学基金项目(30771750), 2008-2010

水稻DNA指纹检测体系的建立与应用, 福建省科技重大专项“粮食作物育种技术研究”专题二“水稻分子植物育种研究与应用”(2008NZ02-02)子专题四, 2008-2010

植物与微生物互作的跨基因组多基因遗传体系的研究, 国家自然科学基金项目(30671123), 2007-2009

水稻雌雄蕊发育关键基因*PSD2*的克隆与功能分析, 国家自然科学基金项目(30671122), 2007-2009

烟草遗传群体建立与分子标记遗传连锁图谱构建, 中国烟草总公司项目, 2007-2010

主要农作物骨干亲本遗传构成和利用效应的基础研究, 973计划项目(2006CB101708), 2007-2012

植物ILP标记的大规模开发与数据库建设, 863计划“十一五”专题项目(2006AA10Z1E2), 2006-2010

水稻花器官发育关键基因及其作用网络的研究, 863计划“十一五”专题项目(2006AA10Z128), 2006-2010

发表论文

(仅列出SCI收录的论文; *号表示通讯作者)

Zheng Y, Zheng W, Lin F, Zhang Y, Yi Y, Wang B, Lu G, Wang Z, Wu W*. *AVR1-CO39* is a predominant locus governing the broad avirulence of *Magnaporthe grisea* strain 2539 on cultivated rice (*Oryza sativa* L.). *Molecular Plant Microbe Interaction*, 2011, 24(1): 13-17

Chen X, Zhang G, Wu W*. Investigation and utilization of intron length polymorphisms in conifers. *New Forests*, 2010, DOI 10.1007/s11056-010-9229-5

Duan Y, Diao Z, Liu H, Cai M, Wang F, Lan T, Wu W*. Molecular cloning and functional characterization of *OsJAG* gene based on a complete-deletion mutant in rice (*Oryza sativa* L.). *Plant Molecular Biology*, 2010, 74: 605-615

Lan T, Wang B, Ling Q, Xu C, Tong Z, Liang K, Duan Y, Jin J, Wu W*. Fine mapping of *cisc(t)*, a gene for cold-induced seedling chlorosis, and identification of its candidate in rice. *Chinese Science Bulletin*, 2010, 55: 3149-3153

Tang J, Yan J, Ma X, Teng W, Wu W et al. Dissection of the genetic basis of heterosis in an elite maize hybrid by QTL mapping in an immortalized *F₂* population. *Theoretical and Applied Genetics*, 2010, 120: 333-340

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Zheng Y, Zhang G, Lin F, Wang Z, Jin G, Yang L, Wang Y, Chen X, Xu Z, Zhao X, Wang H, Lu J, Lu G, Wu W*. Development of microsatellite markers and construction of genetic map in rice blast pathogen *Magnaporthe grisea*. *Fungal Genetics & Biology*, 2008, 45: 1340-1347

Huang D, Wu W, Abrams SR, Cutler AJ. The relationship of drought-related gene expression in *Arabidopsis thaliana* to hormonal and environmental factors. *Journal of Experimental Botany*, 2008, 59: 2991-3007

Wen Y, Wu W*. Experimental designs and statistical methods for mapping quantitative trait loci underlying triploid endosperm traits without maternal genetic variation. *Journal of Heredity*, 2008, 99(5): 546-551

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Wang X, Zhu H, Jin G, Liu H, Wu W*, Zhu Jun. Genome-scale identification and analysis of LEA genes in rice (*Oryza sativa* L.). *Plant Science*, 2007, 172: 414-420

Tang J, Ma X, Teng W, Yan J, Wu W, Dai J, Li J. Detection of quantitative trait loci and heterotic loci for plant height using an immortalized *F₂* population in maize. *Chinese Science Bulletin*, 2007, 52(4): 477-483

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获奖成果

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用PCR技术快速鉴定sorghum属, 福建省科学技术奖三等奖 (2006; 排名第四)

细胞工程应用于水稻遗传育种的研究, 福建省科学技术奖二等奖 (2001; 排名第五)