

作 物 学 报 (ZUOWU XUEBAO)

第37卷 第5期 2011年5月

目 次



作物遗	had when the Land		T' 'AT YET	11 "	1中1十	337
イケイから表	4十 総 加	* * T	古人公田			30000000
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	17 13 77	SCHOOL STATE OF	L 12 11/15	000000P-A 10000 to	134 14	April 100000

200000000000000000000000000000000000000							
745	分子标记辅助选择改良武运粳8号的条纹叶枯病抗性	张宏根	许作鹏	李 鹏	李 波	刘超	朱邦辉
		徐洁芬	钮中一	汤述翥	梁国华	顾铭洪	
755	水稻两用核不育系繁殖基地计算机选择系统研制与应用	刘海	肖应辉	唐文邦	邓化冰	陈立云	
764	利用磁珠富集马铃薯 BAC 文库中 NBS-LRR 类晚疫病抗	徐建飞	金黎平	庞万福	卞春松	段绍光	刘 杰
	性基因	黄三文	屈冬玉				
772	全基因组分析玉米 MuDR 转座因子插入突变体库(英文)	冯 静	傅学乾	王婷婷	陶勇生	高友军	郑用琏
778	水稻抗稻曲病数量性状座位及效应分析	李余生	黄胜东	杨 娟	王才林		
784	利用极端材料定位水稻粒形性状数量基因位点	张 强	姚国新	胡广隆	汤,波	陈 超	李自超
793	利用红色荧光蛋白标记的轮枝镰孢研究病原菌对玉米根	吳 磊	王晓鸣	徐荣旗	李洪杰		
	系的系统侵染和定殖						
803	小麦 ERF 转录因子 W17 互作蛋白的筛选和解析	邱志刚	徐兆师	郑天慧	李连城	陈明	马有志
811	利用 SRAP 标记分析我国甜菜三大产区骨干材料的遗传	王茂芊	吴则东	王华忠			
	多样性						
耕作	栽培・生理生化						
820	高温胁迫下水稻叶片的蛋白响应及其基因型和生育期	周伟辉	薛大伟	张国平			
	差异						
832	非对称性增温对水稻品种南粳 44 米质及关键酶活性的影响	董文军	田云录	张 彬	陈 金	张卫建	
842	氮肥运筹对大穗型水稻品种金恢 809 灌浆期叶片蛋白质	张志兴	李 忠	陈 军	李奇松	陈龙怀	陈鸿飞
	表达的影响	黄锦文	林文雄				
855	"三定"栽培对双季超级稻产量形成及生理特性的影响	蒋 鹏	黄敏	Md. Ibra	him 曾	燕夏	冰
		邹应斌					
868	基于株型的水稻冠层光合生产模拟	李艳大	朱相成	汤 亮	曹卫星	朱 艳	
876	旱稻×稗草杂交后代 YF2-1 光合作用气体交换、叶绿素荧	丁在松	王春艳	关东明	赵凤悟	赵明	
	光和抗氧化酶系统对渗透胁迫的响应						
882	西南稻区不同地域和施氮水平对杂交中稻氮、磷、钾吸	徐富贤	熊洪	张 林	郭晓艺	朱永川	周兴兵
	收累积的影响	刘 茂		151			
895	湖南省季节性干旱对双季稻生长及产量影响的模拟研究	冯利平	莫志鸿	黄晚华	杨晓光	潘学标	
903	山药块茎发育中物质积累及相关代谢酶变化	梁任繁	李创珍	张 娟	何龙飞	韦本辉	甘秀芹
		何虎翼					
911	水热胁迫对紫花苜蓿叶表皮蜡质组分及生理指标的影响	郭彦军	倪 郁	郭芸江	韩 龙	唐 华	玉永雄
研究	简报						
918	低温胁迫下东农冬麦1号分蘖节 SSH 文库的构建及文库	牟永潮	崔 红	于 品	苍 崩	曾俨	孟健男
	中 3 个基因的表达模式						
924	硬粒小麦品种八氢番茄红素合酶基因等位变异的分子检测	郭慧娟	陈 锋	董中东	崔党群		
929	镉胁迫对转基因棉花 SGK3 和 ZD-90 种子品质性状的影响		陈进红	祝水金			

ACTA AGRONOMICA SINICA

Vol. 37 No. 5 May 2011

CONTENTS

CRO	P GENETICS & BREEDING • GERMPLASM RESOU	RCES · MOLECULAR GENETICS
745	Improving the Resistance of Wuyunjing 8 to Rice Stripe	ZHANG Hong-Gen, XU Zuo-Peng, LI Peng, LI Bo, LIU
	Virus via Molecular Marker-assisted Selection	Chao, ZHU Bang-Hui, XU Jie-Fen, NIU Zhong-Yi, TANG
		Shu-Zhu, LIANG Guo-Hua, and GU Ming-Hong
755	Development and Application of a Computer-aided Se-	LIU Hai, XIAO Ying-Hui, TANG Wen-Bang, DENG
	lection System for Thermo-sensitive Genic Male Sterile	Hua-Bing, and CHEN Li-Yun
	Rice Multiplying Site	
764	Isolation of NBS-LRR Late Blight Resistance Genes from	XU Jian-Fei, JIN Li-Ping, PANG Wan-Fu, BIAN Chun-
	Potato BAC Library by System of Magnetic Separation	Song, DUAN Shao-Guang, LIU Jie, HUANG San-Wen, and QU Dong-Yu
772	Genome-wide Analysis of MuDR-related Transposable	FENG Jing, FU Xue-Qian, WANG Ting-Ting, TAO
	Elements Insertion Population in Maize (in English)	Yong-Sheng, GAO You-Jun, and ZHENG Yong-Lian
778	Analysis of Quantitative Trait Loci for Resistance to	LI Yu-Sheng, HUANG Sheng-Dong, YANG Juan, and
	Rice False Smut	WANG Cai-Lin
784	Identification of QTLs for Grain Traits in Rice Using	ZHANG Qiang, YAO Guo-Xin, HU Guang-Long, TANG
	Extreme Materials in Grain Size	Bo, CHEN Chao, and LI Zi-Chao
793	Root Infection and Systematic Colonization of DsRed-	WU Lei, WANG Xiao-Ming, XU Rong-Qi, and LI Hong-
	labelled Fusarium verticillioides in Maize	Jie
803	Screening and Identification of Proteins Interacting with	QIU Zhi-Gang, XU Zhao-Shi, ZHENG Tian-Hui, LI Lian-
	ERF Transcription Factor W17 in Wheat	Cheng, CHEN Ming, and MA You-Zhi
811	Genetic Diversity of Major Sugar Beet Varieties from	WANG Mao-Qian, WU Ze-Dong, and WANG Hua-Zhong
₩-	Three Regions of China with SRAP Markers	
TILL	AGE & CULTIVATION \cdot PHYSIOLOGY & BIOCHEN	MISTRY
820	Protein Response of Rice Leaves to High Temperature	ZHOU Wei-Hui, XUE Da-Wei, and ZHANG Guo-Ping
	Stress and Its Difference of Genotypes at Different	
	Growth Stage	
832	Effects of Asymmetric Warming on Grain Quality and	DONG Wen-Jun, TIAN Yun-Lu, ZHANG Bin, CHEN Jin,
	Related Key Enzymes Activities for Japonica Rice (Nan-	and ZHANG Wei-Jian
	jing 44) under FATI Facility	
842	Effects of Nitrogen Management on Protein Expression	ZHANG Zhi-Xing, LI Zhong, CHEN Jun, LI Qi-Song,
	of Flag Leaves during Grain-filling Period in Large	CHEN Long-Huai, CHEN Hong-Fei, HUANG Jin-Wen,
	Panicle Rice (Oryza sativa L.)	and LIN Wen-Xiong
855	Effects of "San-Ding" Cultivation Method on Yield	JIANG Peng, HUANG Min, Md. Ibrahim, ZENG Yan,
	Formation and Physiological Characteristics of Dou-	XIA Bing, and ZOU Ying-Bin
	ble Cropping Super Rice	
868	Simulation of Canopy Photosynthetic Production Based	LI Yan-Da, ZHU Xiang-Cheng, TANG Liang, CAO Wei-
	on Plant Type in Rice	Xing, and ZHU Yan
876	Response of Gas Exchange, Chlorophyll a Fluorescence	DING Zai-Song, WANG Chun-Yan, GUAN Dong-Ming,
	and Anti-oxidation Enzymes Activities to Osmotic Stress	ZHAO Feng-Wu, and ZHAO Ming
	in an Upland Rice Progeny YF2-1 Derived from Oryza	
	sativa × Echinochloa caudata	

882 Characteristics of Nutrient Uptake and Utilization of Mid-season Hybrid Rice under Different Nitrogen Application Rates in Different Locations of Southwest China

A Simulated Study on the Effects of Seasonal Drought on Growth and Yield of Double Cropping Rice in Hunan

903 Changes of Matter Accumulation and Relative Enzymatic Activity during Yam Tuber Development

911 Effect of Soil Water Deficit and High Temperature on Leaf Cuticular Waxes and Physiological Indices in Alfalfa (Medicago sativa) Leaf XU Fu-Xian, XIONG Hong, ZHANG Lin, GUO Xiao-Yi, ZHU Yong-Chuan, ZHOU Xing-Bin, and LIU Mao

FENG Li-Ping, MO Zhi-Hong, HUANG Wan-Hua, YANG Xiao-Guang, and PAN Xue-Biao

LIANG Ren-Fan, LI Chuang-Zhen, ZHANG Juan, HE Long-Fei, WEI Ben-Hui, GAN Xiu-Qin, and HE Hu-Yi GUO Yan-Jun, NI Yu, GUO Yun-Jiang, HAN Long, TANG Hua, and YU Yong-Xiong

RESEARCH NOTES

918 Expression Analysis of Three Genes from SSH Library Constructed Using Tillering Nodes of Dongnongdongmai 1 under Low Temperature

924 Allelic Variations of Phytoene Synthase Genes Controlling Yellow Pigment Content in Durum Wheat (*Triticum* turgidum L.)

929 Effects of Cadmium Stress on the Seed Quality Traits of Transgenic Cotton SGK3 and ZD-90 MOU Yong-Chao, CUI Hong, YU Jing, CANG Jing, ZENG Yan, and MENG Jian-Nan

GUO Hui-Juan, CHEN Feng, DONG Zhong-Dong, and CUI Dang-Qun

LI Ling, CHEN Jin-Hong, and ZHU Shui-Jin

A BRIEF INTRODUCTION OF ACTA AGRONOMICA SINICA

Acta Agronomica Sinica (AAS, ISSN 0496-3490) is a monthly academic journal co-sponsored by Crop Science Society of China and the Institute of Crop Sciences, Chinese Academy of Agricultural Sciences, under the leadership of China Association for Science and Technology and published by Science Press, Chinese Academy of Sciences. AAS was firstly published in 1962. The predecessors were Proceedings of China Association of Agricultural Science Societies started in 1919, Chinese Journal of Agricultural Research started in 1950, and Acta Agriculturae Sinica started in 1952. As one of the key scientific journals in China, AAS has been financially supported by China Association for Science and Technology since 1997 and the National Natural Science Foundation of China since 2000.

The major aims of AAS are to report the progresses in the disciplines of crop breeding, crop genetics, crop cultivation, crop physiology, ecology, biochemistry, germplasm resources, grain chemistry, grain storage and processing, biotechnology and biomathematics etc. mainly in China and abroad. AAS provides regular columns for Original papers, Reviews, and Research notes. The strict peer-review procedure guarantees the academic level and raises the reputation of the journal. The readership of AAS is for crop science researchers, students of agricultural colleges and universities, and persons with similar academic level.

AAS is the leading journal of crop sciences and reflects the latest achievement in all aspects of crop sciences in China. AAS occupies the first position on the list of Chinese core journals in "Agronomy and Crops" field. The editorial board consists of 122 specialists in the field of crop sciences. Among them, 25 are academicians of Chinese Academy of Sciences or Chinese Academy of Engineering, 12 are from the outside of China, and 3 are from Hong Kong, China.

AAS is a fully Open Access Journal through the independent website (http://www.chinacrops.org/zwxb/) since 2004. Free full texts are published online 2 months earlier than printing version, and all articles of the journal from 1962 are available freely. Manuscript submission, tracking, and peer review process are completed online. The functions of eTOCs (Table of Contents Alerting), advanced paper search, and paper recommendation are available.

AAS are listed in some international index systems, such as AGRIS (FAO), Biological Abstract, CAB Abstracts, Chemical Abstracts, Cambridge Scientific Abstract, Index of Copurnicus, JST's Bibliographic Databases, and VINITI Abstracts Journal (Russia). AAS is also referenced by many domestic databases and abstract periodicals.

The purposes of AAS are to enhance the development of crop science and technology in China, to promote nationwide and worldwide academic exchanges, and to accelerate the modernization of Chinese agriculture. AAS is distributed in China and abroad. The editorial office appreciates to establish publication exchange relationship with related institutions, agricultural colleges and universities, and international organizations in China and abroad. Submissions in English from overseas are welcome.