作物学报 (ZUOWU XUEBAO)

第36卷 第12期 2010年12月

目 次

综述							
2011	水稻弱势粒灌浆机理与调控途径	杨建昌					
作物道	遗传育种・种质资源・分子遗传学						
2020	陆地棉 Li, 纯合显性不致死重组体的遗传分析	刘逢举	梁文化	张天真			
2028	小麦与叶锈菌互作体系中 G 蛋白 α 、 β 亚基的表达及其	杨静静	李亚宁	李 星	刘大群		
	与抗病蛋白和活性氧代谢的关系						
2035	干旱胁迫下棉花 SSH 文库构建及其抗旱相关基因分析	王德龙	叶武威	王俊娟	宋丽艳	樊伟丽	崔宇鹏
2045	YM 型小麦温敏雄性不育系不育基因的 QTL 定位	周菊红	李 轲	何蓓如	胡银岗		
2055	目标起始密码子多态性(SCoT)分子标记技术在花生属中	熊发前	蒋 菁	钟瑞春	韩柱强	贺梁琼	李 忠
	的应用	庄伟建	唐荣华				
2062	大豆异黄酮组分 HPLC 快速分析技术及其在豆腐加工中	王春娥	赵团结	盖钧镒			
	的应用						
2073	一个玉米类ABCI基因ZmABCI-10的克隆及其对镉等非	高清松	杨泽峰	周勇	张 丹	闫成海	梁国华
	生物胁迫的应答(英文)	徐辰武					
2084	棉花 4 个脂肪酸合成相关基因的克隆和表达特征分析	董 佳	魏利斌	胡艳	张天真	郭旺珍	
2091	含 CBS 结构域的小麦 TaCDCPI 基因的克隆及其表达分析	王晓敏	冯 浩	孙燕飞	刘 博	王晓杰	徐亮胜
		于秀梅	魏国荣	黄丽丽	康振生		
2099	苎麻核心种质构建方法	栾明宝	陈建华	许 英	王晓飞	孙志民	
2107	甘肃省主要小麦生产品种(系)及抗源材料抗白粉病基因	曹世勤	骆惠生	武翠平	金社林	王晓鸣	朱振东
	推导分析	贾秋珍	黄瑾	张 勃	尚勋武		
2116	小麦品系 M8003-5 抗条锈病基因遗传分析和分子作图	徐中青	张书英	王睿	王文立	周新力	尹军良
		陈洁	井金学				
耕作栽培•生理生化							
2124	北方旱寒区北移冬油菜生长发育特性	孙万仓	武军艳	方 彦	刘秦	杨仁义	马维国
		李学才	张俊杰	张鹏飞	雷建明	孙 佳	
2135	旱稻 297 非结构性碳水化合物的生产与产量构成因子的	魏凤桐	陶洪斌	王 璞			
	关系						
2143	播期和密度对玉米干物质积累动态的影响及其模型的		赵 明	李从锋	葛均筑	侯海鹏	李 琦
	建立	侯立白					
2154	Cd ²⁺ 对番茄幼苗生长和蛋白质组的影响	陈丽		王振英		n+ 11	
2162	种植密度对棉籽生物量和脂肪与蛋白质含量的影响	朱丽丽	周治国	赵文青		陈兵林	吕丰娟
2170	鲜食期和成熟期糯玉米粉理化特性的差异 ************************************	陆大雷	郭换粉	董 策	陆卫平		
		±± +4. ***	과 사 프	+0/公布6	3V 7 F /L	木亚金	
2179	黏类小麦细胞质雄性不育线粒体 atp6 基因转录本编辑位	韩艳芬	张龙雨 牛 娜		犹以生	李亚鑫	盛央
2185	点 1970—2000 年代玉米单交种的遗传产量增益分析方法的	位 芳 慈晓科		马守才 谢振江	公宏	占据字	茹高林
2103	1970—2000 中代宝木单文种的恩拉厂里增量方列方法的 比较	张德贵	李新海		(京)	户 抓 于 李明顺	如同怀 董树亭
2191	利用 SSR 分子标记分析茶树地方品种的遗传多样性	王丽鸳		段云裳		月 健	曾建明
21/1	THE COLOR OF BUILDING AND THE PROPERTY OF THE	事 康	×mT	TAAN	~~ /H		
		,, ,,,,					

ACTA AGRONOMICA SINICA

Vol. 36 No. 12 December 2010

CONTENTS

REVIEW							
2011	Mechanism and Regulation in the Filling of Inferior Spikelets of Rice	YANG Jian-Chang					
CROP GENETICS & BREEDING · GERMPLASM RESOURCES · MOLECULAR GENETICS							
2020	Genetic Analysis of Homozygous-Dominant-Surviving Ligon Lintless Recombinants in Cotton (Gossypium hirsu- tum L.)	LIU Feng-Ju, LIANG Wen-Hua, and ZHANG Tian-Zhen					
2028	Involvement of Heterotrimeric G Protein α and β Subunits in Defense Responses of Wheat to <i>Puccinia triticina</i>	YANG Jing-Jing, LI Ya-Ning, LI Xing, and LIU Da-Qun					
2035	Construction of SSH Library and Its Analyses of Cotton Drought Associated Genes under Drought Stress	WANG De-Long, YE Wu-Wei, WANG Jun-Juan, SONG Li-Yan, FAN Wei-Li, and CUI Yu-Peng					
2045	Mapping QTLs for Male Sterile Gene in YM-Type Thermo- Sensitive Male Sterile Line of Wheat	ZHOU Ju-Hong, LI Ke, HE Bei-Ru, and HU Yin-Gang					
2055	Application of SCoT Molecular Marker in Genus Arachis	XIONG Fa-Qian, JIANG Jing, ZHONG Rui-Chun, HAN Zhu-Qiang, HE Liang-Qiong, LI Zhong, ZHUANG Wei-Jian, and TANG Rong-Hua					
2062	Establishment of A Rapid HPLC Method for Quantifying Isoflavone Components and Its Application in Tofu Processing	WANG Chun-E, ZHAO Tuan-Jie, and GAI Jun-Yi					
2073	Cloning of an <i>ABC1</i> -like Gene <i>ZmABC1-10</i> and Its Responses to Cadmium and Other Abiotic Stresses in Maize (<i>Zea mays</i> L.)(in English)	GAO Qing-Song, YANG Ze-Feng, ZHOU Yong, ZHANG Dan, YAN Cheng-Hai, LIANG Guo-Hua, and XU Chen-Wu					
2084	Molecular Cloning and Expression Analysis of Four Novel Fatty Acid Synthesis Related Genes in <i>Gossypium</i> hirsutum L.	DONG Jia, WEI Li-Bin, HU Yan, ZHANG Tian-Zhen, and GUO Wang-Zhen					
2091	Cloning and Expression Analysis of a CBS Domain Containing Protein Gene <i>TaCDCP1</i> from Wheat	WANG Xiao-Min, FENG Hao, SUN Yan-Fei, LIU Bo, WANG Xiao-Jie, XU Liang-Sheng, YU Xiu-Mei, WEI Guo-Rong, HUANG Li-Li, and KANG Zhen-Sheng					
2099	Method of Establishing Ramie Core Collection	LUAN Ming-Bao, CHEN Jian-Hua, XU Ying, WANG Xiao-Fei, and SUN Zhi-Min					
2107	Postulation of Powder Mildew Resistance Genes in 64 Wheat Varieties (Lines) in Gansu Province, China	CAO Shi-Qin, LUO Hui-Sheng, WU Cui-Ping, JIN She- Lin, WANG Xiao-Ming, ZHU Zhen-Dong, JIA Qiu-Zhen, HUANG Jin, ZHANG Bo, and SHANG Xun-Wu					
2116	Genetic Analysis and Molecular Mapping of Stripe Rust Resistance Gene in Wheat Line M8003-5	XU Zhong-Qing, ZHANG Shu-Ying, WANG Rui, WANG Wen-Li, ZHOU Xin-Li, YIN Jun-Liang, CHEN Jie, and JING Jin-Xue					
TILLAGE & CULTIVATION · PHYSIOLOGY & BIOCHEMISTRY							
2124	Growth and Development Characteristics of Winter Rape- seed Northern-Extended from the Cold and Arid Regions in China	SUN Wan-Cang, WU Jun-Yan, FANG Yan, LIU Qin, YANG Ren-Yi, MA Wei-Guo, LI Xue-Cai, ZHANG Jun-Jie, ZHANG Peng-Fei, LEI Jian-Ming, and SUN Jia					
2135	Study on the Relationship of Non-Structure Carbohydrate Production and Yield Components of Aerobic Rice, Han-	WEI Feng-Tong, TAO Hong-Bin, and WANG Pu					

dao 297

2143	Effect of Sowing-Date and Planting Density on Dry Matter	LI Xiang-Ling, ZHAO Ming, LI Cong-Feng, GE Jun-Zhu,			
	Accumulation Dynamic and Establishment of Its	HOU Hai-Peng, LI Qi, and HOU Li-Bai			
	Simulated Model in Maize				
2154	Effect of Cd2+ on Seedling Growth and Proteome in	CHEN Li, WANG Lian, WANG Zhen-Ying, and PENG			
	Tomato	Yong-Kang			
2162	Effects of Plant Densities on Cottonseed Biomass, Fat and	ZHU Li-Li, ZHOU Zhi-Guo, ZHAO Wen-Qing, MENG			
	Protein Contents	Ya-Li, CHEN Bing-Lin, and LÜ Feng-Juan			
2170	Differences of Physicochemical Properties for Waxy Maize	LU Da-Lei, GUO Huan-Fen, DONG Ce, and LU Wei-Ping			
	Flour at Fresh and Maturity Stages				
RESEARCH NOTES					
2179	Editing Sites in Transcript of Mitochondrial atp6 Gene of	HAN Yan-Fen, ZHANG Long-Yu, HU Jun-Min, ZHANG			
	Male Sterile Line with Aegilops kotschyi Cytoplasm in	Gai-Sheng, LI Ya-Xin, SHENG Ying, WEI Fang, NIU Na,			
	Wheat	and MA Shou-Cai			
2185	Comparison of Analysis Method of Genetic Yield Gain for	CI Xiao-Ke, ZHANG Shi-Huang, XIE Zhen-Jiang, XU Jia-			
	the Single-Cross Hybrids Released During 1970s-2000s	Shun, LU Zhen-Yu, RU Gao-Lin, ZHANG De-Gui, LI Xin-			
		Hai, XIE Chuan-Xiao, BAI Li, LI Ming-Shun, and DONG			
		Shu-Ting			

A BRIEF INTRODUCTION OF ACTA AGRONOMICA SINICA

WANG Li-Yuan, JIANG Yan-Hua, DUAN Yun-Shang, CHENG Hao, ZHOU Jian, ZENG Jian-Ming, and WEI Kang

Genetic Diversity of Tea Landraces Using SSR Markers

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 92 specialists in the field of crop sciences. Among them, 21 are academicians of Chinese Academy of Sciences or Chinese Academy of Engineering, 14 are from the outside of China, and 3 are from Hong Kong and Taiwan, 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.

2191