



ISSN 1002-2481
CN 14-1113/S

山西農業科學

JOURNAL OF SHANXI AGRICULTURAL SCIENCES

SHANXI NONGYE KEXUE

第41卷第8期（总第330期）

- 中国科技核心期刊
- 中国科学引文数据库（CSCD）来源期刊
- 中国学术期刊综合评价数据库（CAJCED）统计源期刊
- 中国期刊全文数据库（CJFD）全文收录
- 中国核心期刊（遴选）数据库全文上网
- 中文科技期刊数据库全文收录

2013 **8**
Vol.41 No.8

ISSN 1002-2481



万方数据

山西省农业科学院 主办

目次

生物技术

太行山野生萱草染色体数鉴定与核型分析	张超,段九菊,曹冬梅,等(767)
4种PCR体系对湖北海棠DNA扩增效果的对比	陈琳琳,吴瑞姣,罗思谦,等(771)

遗传育种

芹菜种质资源遗传多样性RAPD分析	武青山,马建华,武峻新,等(774)
矮秆玉米自交系08H67-2的特性及遗传规律分析	郑向阳,栗建枝,吴枝根,等(778)
自然变异玉米形态特征分析	申洁,杨娜,何真(781)
杂交谷子产量及品质相关性状的主成分分析	苗泽志,韩浩坤,杜伟建,等(785)
黍稷种质穗型与主要农艺性状的关系	王纶,王星玉,乔治军,等(789)
能源用甜高粱晋甜杂2号的选育及栽培技术	赵威军,张福耀,程庆军,等(793)
不同品种大果沙棘在山西引种栽培试验	王官,韩有志,吕丽丽,等(797)

生理生化

玉米谷胱甘肽过氧化物酶生物信息学分析	张媛,张钟仁,咸丽霞,等(800)
ST细胞库的建立及生物学特性鉴定	平玲,魏圆圆,王家敏,等(804)
BHK-21细胞库的建立及其生物学特性鉴定	付智财,王家敏,令世鑫,等(808)
改良Trizol法提取尖孢镰刀菌RNA	刘强,王金胜(813)
PBO处理对梨萼片脱落调控效果的影响	张鹏飞,蒋伟,刘亚令,等(816)
GA ₃ 对壶瓶枣细胞壁组分代谢及裂果率的影响	丁改秀,王保明,王小原,等(819)

耕作与栽培

灌溉与覆盖对饲用玉米生长及品质的影响	李涛,潘菊梅,齐广平(822)
水地粒用高粱节水灌溉模式研究	马志远,曹昌林,史丽娟,等(826)
杏鲍菇不同菌株比较试验	闫米格,王磊,李素玲,等(831)

资源与环境

不同磷水平下接种AM真菌对矿区玉米生长的影响	李晋荣,洪坚平,郝鲜俊,等(834)
玉米品种产量潜力水平形成原理及其与施肥的关系	褚清河,潘根兴,郭耀东,等(838)
不锈钢尾渣对玉米产量及重金属含量的影响	杨辉,李华,马晨晨,等(843)
新型有机肥对友好菜钙、铁含量和产量的影响	史晓凯,刘利军,党晋华,等(849)
近52a辽宁西部地区浅层地温变化特征分析	隋景跃,张国林,戴海燕,等(852)
太原市小店区耕地土壤养分现状与评价	赵复泉,张彩霞,张晓亮,等(856)
管涔山汾河源头蝶类考察报告I	曹天文,张琦,王卉,等(859)

植物保护

氟化氢诱导下不同枣树品种黑顶病的发病规律	檀柔柔,邓彩萍,刘静,等(863)
松针提取物对植物病原真菌的抑制活性	沈佳鑫,张丽丽,吴文珊,等(866)

畜牧兽医

肉鸡高平衡度饲料养殖试验报告I	周全,杨春雷,吴忻,等(870)
-----------------------	------------------

农业经济

我国海洋捕捞渔业温室气体排放量估算与效率分析	岳冬冬,王鲁民,王茜,等(873)
基于“四化同步”的河北省农业现代化发展探讨	韩玉,李红云,隋鹏,等(877)
我国农产品物流存在的问题及对策	皇甫军红(882)

综述

食用菌深层发酵技术及其应用	郭尚,王慧娟(885)
---------------------	-------------

宏观农业

加快推进山西道地药材的保护和利用	徐福慧,姚延涛(889)
------------------------	--------------

CONTENTS

●Biotechnology

- Chromosome Number Identification and Karyotype Analysis of the Taihang Mountain Wild *Hemerocallis* ZHANG Chao, DUAN Jiu-ju, CAO Dong-mei, et al(767)
- The Contrast of *Malus hupehensis*(Pamp.)Rehd DNA with 4 PCR Systems CHEN Lin-lin, WU Rui-jiao, LUO Si-qian, et al(771)

●Genetics and breeding

- Genetic Diversity Analysis of Celery by RAPD Marker WU Qing-shan, MA Jian-hua, WU Jun-xin, et al(774)
- Characteristics and Genetic Regulation Analysis of Dwarf Maize Inbred Line 08H67-2 ZHENG Xiang-yang, LI Jian-zhi, WU Zhi-gen, et al(778)
- Morphological Characteristics Analysis of Natural Variation Maize SHEN Jie, YANG Na, HE Zhen(781)
- Principal Component Analysis on Traits Related to Yield and Quality of Hybrid Millet ... MIAO Ze-zhi, HAN Hao-kun, DU Wei-jian, et al(785)
- Study on Broomcorn Millet Germplasm Panicle Type and Its Main Agronomic Traits WANG Lun, WANG Xing-yu, QIAO Zhi-jun, et al(789)
- Selection and Cultivation Techniques of Energy Purposed Sweet Sorghum Jintianza 2 ZHAO Wei-jun, ZHANG Fu-yao, CHENG Qing-jun, et al(793)
- Introduction Test of Different Large Berry Seabuckthorn Cultivars in Shanxi WANG Guan, HAN You-zhi, LYU Li-li, et al(797)

●Physiology and biochemistry

- Bioinformatics Analysis of Glutathione Peroxidase in *Zea Mays* ZHANG Yuan, ZHANG Zhong-ren, XIAN Li-xia, et al(800)
- Establishment and Its Characteristics Identification of ST Cells Bank PING Ling, WEI Yuan-yuan, WANG Jia-min, et al(804)
- Establishment and Its Characteristics Identification of BHK-21 Cells Bank FU Zhi-cai, WANG Jia-min, LING Shi-xin, et al(808)
- The Improved Trizol Method to Extract the *Fusarium oxysporum* RNA LIU Qiang, WANG Jin-sheng(813)
- Effect of PBO Treatment on Control of Pear Calyx Leaving ZHANG Peng-fei, JIANG Wei, LIU Ya-ling, et al(816)
- Effect of GA₃ on Cell Wall Component Metabolism and Cracking of Huping Jujube DING Gai-xiu, WANG Bao-ming, WANG Xiao-yuan, et al(819)

●Cultivation

- Effect to Growth and Quality of Forage Maize under Irrigation and Straw Mulching Conditions LI Tao, PAN Ju-mei, QI Guang-ping(822)
- Study on Water-saving Irrigation Mode of Grain Sorghum in Irrigation Land MA Zhi-yuan, CAO Chang-lin, SHI Li-juan, et al(826)
- Comparative Study on Different *Pleurotus erynii* YAN Mi-ge, WANG Lei, LI Su-ling, et al(831)

●Resources and environment

- Effects of Arbuscular Mycorrhiza Fungus on Photosynthetic Characteristics of the Maize in Mining Area under Different Phosphorus Concentration LI Jin-rong, HONG Jian-ping, HAO Xian-jun, et al(834)
- Relationship between Fertilizer Tolerance Traits and Yield Potential Level of Crop Varieties and the Influence of Fertilization CHU Qing-he, PAN Gen-xing, GUO Yao-dong(838)
- Influence of Steel Slag on Maize Yield and Heavy Metals Content YANG Hui, LI Hua, MA Chen-chen, et al(843)
- Effect of New Organic Fertilizer on Ca, Fe and Yield of Komatsuna SHI Xiao-kai, LIU Li-jun, DANG Jin-hua, et al(849)
- Analysis of Variation Characteristics for Shallow Geotemperature in Western Liaoning in the Past 52 Years SUI Jing-yue, ZHANG Guo-lin, DAI Hai-yan, et al(852)
- Current Situation of Soil Nutrients and Assessment for the Arable Land in Xiaodian District, Taiyuan ZHAO Fu-quan, ZHANG Cai-xia, ZHANG Xiao-liang, et al(856)
- Report I on Butterflies in the Headstreams of Fenhe River, Shanxi Province CAO Tian-wen, ZHANG Qi, WANG Hui, et al(859)

●Plant protection

- Occurrence Regularity of Jujube Black Tip Disease in Different Varieties Induced by HF - - - TAN Rou-rou, DENG Cai-ping, LIU Jing, et al(863)
- Study on Antibacterial Activity of Extracts from *Pinus elliottii* against Plant Pathogenic Fungi SHEN Jia-xin, ZHANG Li-li, WU Wen-shan, et al(866)

●Animal husbandry and veterinary

- Report I of Broiler Culture Experiment with Highly Balance Feed ZHOU Quan, YANG Chun-lei, WU Xin, et al(870)

●Agri-economy

- GHG Emissions Estimation and Efficiency Analysis of Marine Fisheries YUE Dong-dong, WANG Lu-min, WANG Qian, et al(873)
- On the Agricultural Modernization in Hebei Province from the Viewpoint of the Harmonized Industrialization Development, IT Application, Urbanization and Agricultural Modernization HAN Yu, LI Hong-yun, SUI Peng, et al(877)
- The Existing Problem and Countermeasures for Logistics of Agricultural Products in China HUANGFU Jun-hong(882)

●Review

- Submerged Fermentation Technology of Edible Fungus and Its Application GUO Shang, WANG Hui-juan, et al(885)

●The general

- To Accelerate the Protection and Utilization of Authentic Medicinal Plants in Shanxi XU Fu-hui, YAO Yan-tao(889)