

西南农业学报

2010 年 第 23 卷 第 5 期

目 次

作物遗传育种·种质资源

- 1387 滇型杂交稻碾磨品质和外观品质的配合力及遗传力分析
李贵勇,袁平荣,杨天梅,邱崇力,
李铮友,卢义宣,李本逊,杨从党
- 1393 不同海拔下产生的水稻正反交 F_2 群体形态性状遗传变异研究
王石华,谭学林
- 1397 四川及南亚水稻恢复系的类群比较及典型品种分析
曾宪平,吕建群,陈 林,岑 煜,
戴怀根
- 1403 通过玉米茎尖转化耐草甘膦基因 *2mG2-epsps* 及抗性鉴定
余桂容,杜文平,宋 军,窦 茜,
刘永胜,陆 伟,徐利远
- 1409 8 份蔗茅与甘蔗杂种 F_1 材料的 ISSR 多态性分析
姜红波,王先宏,何丽莲,李富生
- 1413 几个新台糖甘蔗品种杂交育种潜力研究
吴才文,赵 俊,赵培方,刘家勇,
杨 昆,夏红明,咎逢刚
- 1418 不同肉色甘薯交互嫁接后块根干物质积累研究
李 明,傅玉凡,王大一,蒲志刚,
吴 洁,谭文芳
- 1424 特种紫娟茶与大叶茶香气成分比较研究
夏丽飞,陈林波,蔡 丽,王 丽,
韩 丽,田易萍,梁名志
- 1429 打叶复烤成品片烟结构稳定性的综合评价
王 满,何结望,许自成,谢 豪,
闫铁军,毛福利,胡皓月

耕作栽培·生理生化

- 1434 桂中地区甜高粱品种的引进及筛选试验
葛耀相,覃守贵,梁文育,李桂英
- 1439 不同栽培条件对马铃薯紫云 1 号花青素含量影响的研究
王卫强,钟巍然,鞠远金,伍加勇,
黄世龙,张晓春,谷明禹,谢明菊,
任自明
- 1443 能源甘蔗在 3 种尾矿砂上的生长适应性研究
郭家文,张跃彬,刘少春
- 1447 植物硫激素 PSK- α 在水稻花药培养中作用初步研究
陈德西,李仕贵,向运佳,章振羽,
彭云良
- 1451 弱光对番茄幼苗功能叶片 CO_2 需求特性的影响
朱延姝,冯 辉,阮燕晔

1455 水分胁迫对甘蔗根系蛋白质差异表达的影响 周 桂,丘立杭,邹成林,黄丽萍,杨丽涛,李杨瑞

1460 脐橙花朵脱落进程中花柄 β -甘露聚糖酶活性变化 任艳芳,何俊瑜,刘厚宇,刘国琴

1464 植物生长调节剂及不同温度处理对油莎豆块茎萌发的影响 沈 雁,杨伟波,刘 蕊,陈良秋,陈卫军

1468 广东烤烟糖含量和氮含量分析 刘春奎,王晓宾,许自成,王建民,李 晓,李瑞丽

1471 车桑子种子抗逆生理学特性及其对天然更新的影响 张春华,唐国勇,孙永玉,刘方炎,李 昆,和 菊

1477 三七种子后熟期生理生化的动态研究Ⅲ.不同贮藏条件下种子酶 安娜,朱 艳,崔秀明,段承俐,活性分析 萧凤回

1481 不同地理种源大百合(*Cardiocrinum giganteum*)过氧化物酶同工 李 婷,关文灵,陈 贤酶分析

1484 光对铜绿微囊藻挥发性成分的影响 邓国宾,薛红芬,汤晓莉,杨明攀,陈善娜,陈小兰

1489 纤维素降解真菌分离筛选、产酶特性及高效水解菌系的初步构建 黄宁珍,付传明,何金祥,唐凤鸾,区 婵,何成新

1497 名山白毫对于旱胁迫的生理生态响应 杨 华,唐 茜,黄 毅,王小萍

1504 遮光处理对山葵幼苗生长及光合特性的影响 翁忙玲,韩 键,卞新民,姜卫兵

1507 印度南瓜“甜栗”果实主要营养成份的动态研究 刘小俊,李跃进,梁根云,房 超,刘独臣,杨 宏

植物保护·土壤肥料

1510 四川不同生态条件下水稻杂糯间栽技术对稻瘟病的控制作用 叶慧丽,王 平,姚 琳,毛建辉,卢代华,胡容平,吴 江,龚学书,肖兰英

1515 侵染云南烟草的粉虱传双生病毒卫星分子基因组结构特征 丁 铭,何跃峰,杨 莉,王 玉,董家红,张仲凯

1522 3种番茄斑萎病毒属病毒侵染寄主植物的细胞病理特征 张仲凯,何跃峰,方 琦,程晓非,董家红,尹跃艳,丁 铭

1525 两种 SPE 净化方法在蔬菜农药多残留分析中的比较 褚能明,杨俊英,柴 勇,徐利均,熊 英,康月琼

1529 烟雾机弥雾施药防治柑桔木虱成虫试验 白先进,邓崇岭,邓光宙,赵小龙,李国刚,龙丽萍,陈传武,肖远辉

1533 西贡蕉枯萎病生防木霉菌株 gz-2 的鉴定及生物学特性研究 柯仿钢,黄思良,付 岗,汪 茜,张 欣,黎起秦

1540	球孢白僵菌 MZ041016 菌株对斜纹夜蛾幼虫的致病性研究	袁盛勇, 薛春丽, 陈 斌, 孔 琼, 李正跃, 肖 春
1544	环境因子对莱氏野村菌 MZ060806 菌株生长的影响	孔 琼, 袁盛勇, 张自飞, 严 芸, 张慧芳
1548	甘蔗黑穗病菌的快速检测	吴转娣, 咎逢刚, 吴才文, 李文凤, 卢文洁, 黄应昆
1551	杂交中稻氮素利用效率的简易评价指标研究	徐富贤, 熊 洪, 张 林, 郭晓艺, 朱永川, 周兴兵, 刘 茂
1559	苗期 N 肥与除草剂混施对老芒麦生长及杂草的影响	游明鸿, 刘金平, 白史且, 张新全, 周纯兵, 李达旭
1565	四川甘孜州折多山与雀儿山地区土壤细菌的研究	胡容平, 龚国淑, 张 洪, 张世熔, 卢代华, 刘 旭, 叶慧丽
1571	施氮量及追肥比例对冬马铃薯块茎品质形成的影响	董 茜, 郑顺林, 李国培, 袁继超
1575	磷肥施用量对药用菊花生长、产量和养分吸收的影响	刘大会, 刘 伟, 朱端卫, 金 航, 郭兰萍, 左智天, 刘 莉
1581	模糊综合评价在农田重金属污染评价中的应用	李梦红, 张晓君, 卢 杰
1586	海口市琼山区土壤有效硫现状研究	张冬明, 吴宗礼, 王家坤, 陈 胜, 王绥干, 夏海洋

园艺·环境科学

1591	应用 SRAP 分子标记构建茄子遗传图谱初探	房 超, 杨志荣, 刘独臣, 刘小俊, 梁根云, 杨 宏, 李跃进
1595	22 个毛木耳菌株的 ISSR 分析	贾定洪, 郑林用, 王 波, 彭卫红, 甘炳成, 黄忠乾
1599	姬菇杂交菌株的出菇产量及商品性研究	谭 伟, 郭 勇, 周 洁, 贾定洪
1606	我国主要木薯品种 AFLP 多态性分析	张振文, 姚庆群, 许瑞丽, 李开锦
1610	高锌胁迫对不同品种大白菜生长和品质的影响	刘吉振, 李 燕, 徐卫红, 张谊模, 向华丰, 张洪成
1615	香菇菌渣吸附水溶液中重金属铅的研究	蒋元继, 唐 亚, 刘本洪, 张清东
1620	金耳有效菌种的制备技术研究	田果廷, 赵丹丹, 赵永昌
1625	水氮耦合对红枣光合特性与水分利用效率的影响研究	柴仲平, 王雪梅, 孙 霞, 蒋平安, 陈 玮
1631	水平阶式梨树整形修剪技术研究初报	张全军, 邓家林, 张绍铃, 李文贵
1636	纽荷尔脐橙及其果形变异体的 AFLP 分析	彭志军, 李金强, 蔡永强, 陈守一, 郭文武

1640	“红丰”草莓无菌系及叶盘再生系统的建立	黄文江, 潘超, 阙显照, 张全军
1644	两种蔷薇属植物果实品质质量的综合评价	李荣钦, 关法春, 贺延国, 邢震, 王忠红, 朗杰
1648	中国兰 SRAP-PCR 体系的建立及优化	叶兰香, 蒋彧, 李萍, 王海娥, 何俊蓉, 刘菲, 卓碧萍, 袁宁
1652	东方百合“索蚌”离体培养快繁体系建立	陈丽静, 马爽, 李丽丽, 李浩戈, 林景卫, 马慧, 明军
1656	11 个中国古老月季品种的核型分析	张婷, 蹇洪英, 王其刚, 张颖, 唐开学, 李树发, 邱显钦, 晏慧君
1660	预处理液对洋桔梗切花保鲜效应的研究	师进霖, 姜跃丽, 杜秀虹, 董绍辉, 李军萍
1665	不同实验处理对头花蓼克隆生长特性及繁殖分配的影响	董力, 王海洋, 陈艳, 马小煊
1669	热水和浓硫酸处理对 12 个野生豆科草种种子萌发的影响	吕玉兰, 黄家雄, 刘倩
1673	菘蓝种子的多倍体诱导研究	王跃华, 孙雁霞, 骆玥, 陈玲

动物科学

1677	BP 神经网络在中国西门塔尔牛屠宰性状早期预测中的应用	张猛, 周正奎, 李姣, 袁峥嵘, 贺建宁, 高雪, 高会江, 陈金宝, 李俊雅, 许尚忠
1683	猪繁殖与呼吸综合征病毒 Nsp2 的原核表达及单克隆抗体的制备	严玉霖, 高洪, 陈玲, 陈培富, 杨建发, 孙文汇, 高利波, 赵汝
1689	广西巴马小型猪附睾成纤维细胞的分离培养和鉴定	王献伟, 王宪, 梁世忠, 邹知明, 卢晟盛, 卢克煊
1695	显微操作时间对猪 ICSI 胚胎早期发育的影响	罗龙兴, 秦祖兴, 梁世忠, 邹知明, 卢晟盛, 卢克煊
1698	PRRSV SD-TA 变异毒株的分离及序列分析	邱洪凯, 曹丙蕾, 肖一红, 周恩民
1703	发酵床养殖垫料组分的变化规律	盛清凯, 武英, 赵红波, 刘华阳, 王星凌
1706	黔北麻羊的肉用性能和肉质特性研究	罗卫星, 张启林, 穆林, 李洪
1711	卵巢打点注射质粒 pIRES2-EGFP 生产转基因兔的研究	宋天增, 冯静, 曾宪垠, 杨剑波, 杨华, 韩猛立, 杨井泉, 黄新, 张红琳, 陈永耀, 贾斌, 石国庆
1720	绵羊 KAP1.1 基因克隆与单核苷酸多态性分析	冯静, 杨华, 宋天增, 杨剑波, 石国庆, 徐从祥, 黄锡霞

农业工程

1725 农作物秸秆能源利用基本性能的研究

熊昌国,谢祖琪,易文裕,徐润琪,姚金霞

1733 多工位茶叶自动揉捻机组研发

钟应富,李中林,余小明,袁林颖,周正科,张莹,敬廷桃,刘家红

1736 百合种球冷藏库的 CO₂ 监测及控制技术应用

黎啟江,王祥宁,王家金,张倩,黎竞雄

综 述

1742 茶树病虫害预测预报方法的回顾与展望

彭萍,王晓庆,肖玉华,徐雅丽

1746 广西粮食生产安全问题与对策

杨凤敏

1750 云南茶组植物的分布

汪云刚,刘本英,宋维希,马玲,蒋会兵,吴兵,唐一春,李友勇,孙雪梅,王平盛

简 报

1754 不同品种组合母猪繁殖性能研究

陈晓晖,吕学斌,何志平,龚建军,梁艳,刘锐,应三成,曾凯,陶璇,雷云峰,杨雪梅,李正确

1757 油菜蚜虫发生危害规律及防控技术

李德友,何永福,陆德清,叶照春,袁洁

1760 马铃薯茎尖培养部分因子对黄化苗发生的影响

黄萍,马朝宏,颜谦,丁海兵

1763 缓释肥料在马铃薯上的应用效果

周瑞荣,孙锐锋,肖厚军,苟久兰

1766 国标分光光度法测定面制食品中铝的改进研究

谢永红,杨定清,罗晓梅,周娅

1770 两种蛋白质变性剂在转基因成分检测中的抑制作用

宋君,牛蓓,王东,游米沙,尹全,陶李,刘勇,雷绍荣

1773 黔产龙胆不同部位中龙胆苦苷的含量测定

敖茂宏,宋智琴

SOUTHWEST CHINA JOURNAL OF AGRICULTURAL SCIENCES

Vol. 23 No. 5 2010

Contents

CROP GENETICS & BREEDING · GERMPLASM RESOURCES

- | | | |
|------|---|--|
| 1387 | Analysis on Combining Ability and Heritability in Milling Quality and Apparent Quality Characters of Dian-type Japonica Hybrid Rice | LI Gui-yong, YUAN Ping-rong, YANG Tian-mei, QIU Chong-li, LI Zheng-you, LU Yi-xuan, LI Ben-xun, YANG Cong-dang |
| 1393 | Study on Genetic Variation of Morphological Traits in Rice F ₂ Populations Generated from Hybrids at Different Altitudes | WANG Shi-hua, TAN Xue-lin |
| 1397 | Groups Comparison of Rice Restorer Lines in Sichuan and South Asia and Typical Varieties Analysis | ZENG Xian-ping, LV Jian-gun, CHEN Lin, CEN Jin, DAI Huai-gen |
| 1403 | Transformation of Tolerant-glyphosate 2mG2-epsps Gene by Maize Shoot Tip and Identification of Resistance | YU Gui-rong, DU Wen-ping, SONG Jun, DOU Qian, LIU Yong-sheng, LU Wei, XU Li-yuan |
| 1409 | ISSR Polymorphism Analysis of Eight F ₁ Hybrids of <i>Erianthus fulvus</i> and <i>Saccharum</i> spp. | LOU Hong-bo, WANG Xian-hong, HE Li-lian, LI Fu-sheng |
| 1413 | Research on Breeding Potential of Several ROC Varieties in Sugarcane | WU Cai-wen, ZHAO Jun, ZHAO Pei-fang, LIU Jia-yong, YANG Kun, XIA Hong-ming, ZAN Feng-gang |
| 1418 | Accumulation of Dry Matter in Sweetpotato Storage Roots after Reciprocal Grafts among 5 Varieties with Different Flesh Color | LI Ming, FU Yu-fan, WANG Da-yi, PU Zhi-gang, WU Jie, TAN Wen-fang |
| 1424 | Comparison of Aroma Components of Special Zijuan and Daye Tea | XIA Li-fei, CHEN Lin-bo, CAI Li, WANG Li, HAN LI, TIAN Yi-ping, LIANG Ming-zhi |
| 1429 | Comprehensive Evaluation of Stability of Threshing and Redrying Lamina Product | WANG Man, HE Jie-wang, XU Zi-cheng, XIE Hao, YAN Tie-jun, MAO Fu-li, HU Hao-yue |

TILLAGE & CULTIATION · PHYSIOLOGY

- | | | |
|------|---|--|
| 1434 | Study on Introduction and Selection of Sweet Sorghum in Middle Guangxi | GE Yao-xiang, QIN Shou-gui, LIANG Wen-yu, LI Cui-ying |
| 1439 | Influence of Cultivation Conditions on Anthocyanin Content of Potato Ziyun No. 1 | WANG Wei-qiang, ZHONG Wei-ran, JU Yuan-jin, WU Jia-yong, HUANG Shi-long, ZHANG Xiao-chun, GU Ming-yu, XIE Ming-ju, REN Zi-ming |
| 1443 | Influence of Three Kinds of Mine Tailings on Growth of Adaptability in Energy Cane | GUO Jia-wen, ZHANG Yue-bin, LIU Shao-chun |
| 1447 | Preliminary Studies on Effects of Plant Phytosulfokine PSK- α in Rice Anther Culture | CHEN De-xi, LI Shi-gui, XIANG Yun-jia, ZHANG Zhen-yu, PENG Yun-liang |
| 1451 | Effect of Low Light Density on CO ₂ Requirement Characteristics of Tomato Seedling Function Leaves | ZHU Yan-shu, FENG Hui, RUAN Yan-ye |

- 1455 Effect of Water Stress on the Differential Protein Expression in Sugarcane Roots
ZHOU Gui, QIU Li-Hang, ZOU Cheng-Lin, HUANG Li-ping, YANG Li-tao, LI Yang-rui
- 1460 Changes of β -mannanase Activity in Pedicel Explants during Process of Flower Abscission in Navel Orange
REN Yan-fang, HE Jun-yu, LIU Hou-yu, LIU Guo-qin
- 1464 Effects of Plant Growth Regulators and Temperature on Seed Germination of *Cyperus esculentus*
SHEN Yan, YANG Wei-bo, LIU Rui, CHEN Liang-qiu, CHEN Wei-jun
- 1468 Analysis of Contents of Sugar and Nitrogen in Flue-cured Tobacco Leaves from Guangdong Province
LIU Chun-kui, WANG Xiao-bin, XU Zi-cheng, WANG Jian-min, LI Xiao, LI Rui-li
- 1471 Physiological Characteristics of *Dodonaea viscosa* (L.) Jacq. Seeds Stress-resistance and Influences on Nature Regeneration
ZHANG Chun-hua, TANG Guo-yong, SHUN Yong-yu, LIU Fang-yan, LI Kun, HE Ju
- 1477 Study on Variation of Physiology and Biochemistry during Post-maturation of *Panax notoginseng* Seeds III. Analysis of Variation of Enzyme Activity in Seeds
AN Na, ZHU Yan, CUI Xiu-ming, DUAN Cheng-li, XIAO Feng-hui
- 1481 Analysis of POD Isoenzyme of *Cardiocrinum giganteum* in Different Source
LI Ting, GUAN Wen-ling, CHEN Xian
- 1484 Effect of Light on Volatile Component of *Microcystis aeruginosa*
DENG Guo-bin, XUE Hong-fen, TANG Xiao-li, YANG Ming-zhi, CHEN Shan-na, CHEN Xiao-lan
- 1489 Isolation of Cellulose-Degradation Fungi, Their Zymogenic Characteristics, and Preliminary Design of High Effect Complex Microbial Communities
HUANG Ning-zhen, FU Zhuan-ming, HE Jin-xiang, TANG Feng-luan, OU Chan, HE Cheng-xin
- 1497 Eco-physiological Response of Mingshanbaihao Tea Seedling to Drought Stress
YANG Hua, TANG Qian, HUANG Yi, WANG Xiao-ping
- 1504 Effects of Shading on Growth and Photosynthetic Characteristics of Wasabi Seedlings
WENG Mang-ling, HAN Jian, BIAN Xin-min, JIANG Wei-bing
- 1507 Studies on Dynamic Change of Fruits Nutrition Content of 'Tianli' Pumpkin (*Cucurbit maxima* D.)
LIU Xiao-jun, LI Yue-jian, LIANG Gen-yun, FANG Chao, LIU Du-chen, YANG Hong

PLANT PROTECTION · SOIL & FERTILIZER

- 1510 Study on Control Effects of Rice Mixture on Rice Blast in Different Ecological Zones
YE Hui-li, WANG Ping, YAO Lin, MAO Jian-hui, LU Dai-hua, HU Rong-ping, WU Jiang, GONG Xue-shu, XIAO Lan-ying
- 1515 Structure Characterization of Genome of Whitefly-transmitted Geminivirus Associated Satellites DNA β Infecting Tobacco in Yunnan Province
DING Ming, HE Yue-feng, YANG Li, WANG Yu, DONG Jia-hong, ZHANG Zhong-kai
- 1522 Cytopathological Characterization of Three Distinct *Tospovirus* Species in Infected Host Plants
ZHANG Zhong-kai, HE Yue-feng, FANG Qi, CHENG Xiao-fei, DONG Jia-hong, YIN Yue-yan, DING Ming
- 1525 Comparison of Two Kinds of SPE Clean-up Methods in Vegetable Pesticide Multi-residue Analysis
CHU Neng-ming, YANG Jun-ying, CHAI Yong, XU Li-jun, XIONG Ying, KANG Yue-qiong
- 1529 Control Effects of Insecticide Fog Sprayed by Smoke Machine on Adult *Citrus Psylla*
BAI Xian-jin, DENG Chong-ling, DENG Guang-zhou, ZHAO Xiao-long, LI Guo-gang, LONG Li-ping, CHEN Chuan-wu, XIAO Yuan-hui
- 1533 Identification and Biological Characteristics of Trichoderma Strain gz-2, A Biocontrol Agent against Saigon Banana Fusarium Wilt
KE Fang-gang, HUANG Si-liang, FU Gang, WANG Qian, ZHANG Xin, LI Qi-qin

1540	Study on Pathogenicity of <i>Beauveria bassiana</i> MZ041016 to Larvae of <i>Spo-doptera litura</i>	YUAN Sheng-yong, XUE Chun-li, CHEN Bin, KONG Qiong, LI Zheng-yue, XIAO Chun
1544	Effect of Environmental Factors on Growth of <i>Nomuraea rileyi</i> MZ060806	KONG Qiong, YUAN Sheng-yong, ZHANG Zi-fei, YAN Yun, ZHANG Hui-fang
1548	Rapid Detection Method for Sugarcane Smut Pathogen	WU Zhuan-di, ZAN Feng-gang, WU Cai-wen, LI Wen-feng, LU Wen-jie, HUANG Ying-kun
1551	Study on Appraising Index of Fertilizer-Nitrogen Use Efficiency for Mid-Season Hybrid Rice	XU Fu-xian, XIONG Hong, ZHANG Lin, GUO Xiao-yi, ZHU Yong-chuan, ZHOU Xing-bing, LIU Mao
1559	Effect of Mixture of Fertilizers and Herbicides on Growth of <i>Elymus sibiricus</i> L. and Herbicide in Seedling Stage	YOU Ming-hong, LIU Jin-ping, BAI Shi-qie, ZHAG Xin-guan, ZHOU Chun-bing, LI Da-xu
1565	Study on Soil Bacteria in Zheduo and Que'er Mountain	HU Rong-ping, GONG Guo-shu, ZHANG Hong, ZHANG Shi-rong, LU Dai-hua, LIU Xu, YE Hui-li
1571	Effect of Nitrogen Level and Top Dressing Proportion on Quality of Winter Potato	DONG Qian, ZHENG Shun-lin, LI Guo-pei, YUAN Ji-chao
1575	Effect of Phosphate Fertilizer Supply on Growth, Yield and Nutrient Absorption of <i>Chrysanthemum morifolium</i> (Ramat.)	LIU Da-hui, LIU Wei, ZHU Duan-wei, JIN Hang, GUO Lan-ping, ZUO Zhi-tian, LIU Li
1581	Application of Fuzzy Comprehensive Assessment in Pollution Assessment-of Heavy Metal in Farmland Soil	LI Meng-hong, ZHANG Xiao-jun, LU Jie
1586	Study on Soil Available Sulfur Actuality in Qiongsan Area of Haikou	ZHANG Dong-ming, WU Zong-li, WANG Jia-kun, CHEN Sheng, WANG Sui-gan, XIA Hai-yang

HORTICULTURE · ENVIRONMENT SCIENCE

1591	Analysis of Eggplant Linkage Map Using SRAP Molecular Markers	FANG Chao, YANG Zhi-rong, LIU Du-chen, LIU Xiao-jun, LIANG Gen-yun, YANG Hong, LI Yue-jian
1595	Analysis of 22 <i>Auricularia polytricha</i> Strains with ISSR Markers	JIA Ding-hong, ZHENG Lin-yong, WANG Bo, PENG Wei-hong, GAN Bing-cheng, HUANG Zhong-qian
1599	Study on Fruiting Yields and Commodity Characters of <i>Pleurotus cornucopiae</i> Hybrids	TAN Wei, GUO Yong, ZHOU Jie, JIA Ding-hong
1606	Genetic Diversity Analysis by AFLP for Cassava (<i>Manihot esculenta</i> Crantz) in China	ZHANG Zhen-wen, YAO Qing-qun, XU Rui-li, LI Kai-mian
1610	Effect of Zn Stress on Growth and Quality of Different Chinese Cabbage Varieties	LIU Ji-zhen, LI Yan, XU Wei-hong, ZHANG Yi-mo, XIANG Hua-feng, ZHANG Hong-cheng
1615	Adsorption of Lead in Aqueous Solution by Spent Shiitake (<i>Lentinula edodes</i>) Substrate	JIANG Yuan-ji, TANG Ya, LIU Ben-hong, ZHANG Qing-dong
1620	Study on Technology for Spawn Preparation for <i>Tremella aurantialba</i>	TIAN Guo-ting, ZHAO Dan-dan, ZHAO Yong-chang
1625	Photosynthetic Characteristics and Water Use Efficiency of <i>Zizyphus jujube</i> under Coupling of Water and N	CHAI Zhong-ping, WANG Xue-mei, SUN Xia, JIANG Ping-an, CHEN Wei

- 1631 Preliminary Studies on Horizontal Step System Pruning Technique of Pear ZHANG Quan-jun, DENG Jia-lin, ZHANG Shao-ling, LI Wen-gui
- 1636 Identification of Newhall Navel Orange and Its Fruit Shape Variants by AFLP PENG Zhi-jun, LI Jin-qiang, CAI Yong-qiang, CHEN Shou-yi, GUO Wen-wu
- 1640 Tissue Culture and Establishment of Regeneration System from Leaves of *Fragaria ananassa* Duchesne HUANG Wen-jiang, PAN Chao, KAN Xian-zhao, ZHANG Quan-jun
- 1644 Evaluation on Fruit Quality of Two Species of *Rosa* L. LI Rong-qin, GUAN Fa-chun, HE Yan-guo, XING Zhen, WANG Zhong-hong, LANG Jie
- 1648 Establishment and Optimization of SRAP-PCR Reaction System of *Chinese cymbidium* YE Lan-xiang, JIANG Yu, LI Ping, WANG Hai-e, HE Jun-rong, LIU Fei, ZHOU Bi-ping, YUAN Ning
- 1652 Rapid Propagation of Oriental Lily 'Sorbonne' CHEN Li-jing, MA Shuang, LI Li-li, LI Hao-ge, LIN Jing-wei, MA Hui, MING Jun
- 1656 Study on Karyotype of Eleven Chinese Old Garden Roses ZHANG Ting, JIAN Hong-ying, WANG Qi-gang, ZHANG Hao, TANG Kai-xue, LI Shu-fa, QIU Xian-qin, YAN Hui-jun
- 1660 Freshness-preserving Effects of Pretreatment Solution on Cutting *Eustoma grandiflora* SHI Jin-lin, JIANG Yue-li, DU Xiu-hong, DONG Shao-hui, LI Jun-ping
- 1665 Influences of Different Experimental Treatment on Clonal Growth Characteristics and Reproductive Allocation of *Polygonum capitatum* Buch. - Ham. ex D. Don DONG Li, WANG Hai-yang, CHEN Yan, MA Xiao-huan
- 1669 Effect of Hot Water and Concentrated Sulfuric Acid Treatments on Seeds Germination of Twelve Wild Leguminosae Grass LV Yu-lan, HUANG Jia-xiong, LIU Qian
- 1673 Research on Polyploid induction of *Isatis indigotica* Fort. Seed WANG Yue-hua, SUN Yan-xia, LUO Yue, CHEN Ling

ANIMAL SCIENCE

- 1677 Application of BP Neural Network to Predict Slaughter Traits in Chinese Simmental ZHANG Meng, ZHOU Zheng-kui, LI Jiao, YUAN Zheng-rong, HE Jian-ning, GAO Xue, GAO Hui-jiang, CHEN Jin-bao, LI Jun-ya, XU Shang-zhong
- 1683 Expression of Nsp2 Gene of PRRSV and Development of Monoclonal Antibodies against Nsp2 YAN Yu-lin, GAO Hong, CHEN Ling, CHEN Pei-fu, YANG Jian-fa, SUN Wen-hui, GAO Li-bo, ZHAO Ru
- 1689 Culture and Identification of Epididymis Fibroblast of Guangxi Bama Mini-Pigs WANG Xian-wei, WANG Xian, LIANG Shi-zhong, ZOU Zhi-ming, LU Sheng-sheng, LU Ke-huan
- 1695 Effect of Micro-injection Duration on Early Development of Porcine ICSI Oocytes LUO Long-xing, QIN Zu-xing, LIANG Shi-zhong, ZOU Zhi-ming, LU Sheng-sheng, LU Ke-huan
- 1698 Isolation and Sequence Analysis of PRRSV SD-TA Mutational Strain QIU Hong-kai, CAO Bing-lei, XIAO Yi-hong, ZHOU En-min
- 1703 Research on Variation of Compositions in Deep-Litter Systems SHENG Qing-kai, WU Ying, ZHAO Hong-bo, LIU Hua-yang, WANG Xing-ling
- 1706 Studies on Mutton Performance and Quality of Qianbei Ma Goat LUO Wei-xing, ZHANG Qi-lin, MU Lin, LI Hong

- | | | |
|------|---|--|
| 1711 | Efficient Method to Generate EGFP Transgenic Rabbits by Multi-point Ovary injection | SONG Tian-zeng, FENG Jing, ZENG Xian-yin, YANG Jian-bo, YANG Hua, HAN Meng-li, YANG Jing-quan, HUANG Xin, ZHANG Hong-lin, CHEN Yong-yao, JIA Bin, SHI Guo-feng, FENG Jing, YANG Hua, SONG Tian-zeng, YANG Jian-bo, SHI Guo-qing, XU Cong-xiang, HUANG Xi-xia |
| 1720 | Cloning and Polymorphism of KAP1.1 Gene in Sheep | |

AGRICULTURAL ENGINEERING

- | | | |
|------|---|---|
| 1729 | Study on Basic Characteristics of Crop Straw/Stalk Used as Biomass Energy Resources | XIONG Chang-guo, XIE Zu-qi, YI Wen-yu, XU Run-qi, YAO Jin-xia |
| 1737 | Research and Development of Multi-location Tea Automatic Roller Machine-teams | ZHONG Ying-fu, LI Zhong-lin, SHE Xiao-ming, YUAN Lin-ying, ZHOU Zheng-ke, ZHANG Ying, JING Ting-tao, LIU Jia-hong |
| 1740 | Application of CO ₂ Monitoring and Control Technology in Lily Cold Store | LI Qi-jiang, WANG Xiang-ning, WANG Jia-jin, ZHANG Qian, LI Jing-xiong |

REVIEWS

- | | | |
|------|---|---|
| 1742 | Review and Prospect on Forecasting of Tea Pests and Diseases | PENG Ping, WANG Xiao-qing, XIAO Yu-hua, XU Ya-li |
| 1746 | Grain Production Safety Problems and Countermeasures of Guangxi | YANG Feng-min |
| 1750 | Distribution of Sect. <i>Thea</i> (L.) Dyer in Yunnan Province | WANG Yun-gang, LIU Ben-ying, SONG Wei-xi, MA Ling, JIANG Hui-bing, YI Bing, TANG Yi-chun, LI You-yong, SUN Xue-mei, WANG Ping-sheng |

RESEARCH NOTES

- | | | |
|------|--|--|
| 1754 | Research of Sow Reproduction Performance with Different Breed Combination | CHEN Xiao-hui, LV Xue-bin, HE Zhi-ping, GONG Jian-jun, LIANG Yan, LIU Rui, YING San-cheng, ZENG Kai, TAO Xu-an, LEI Yun-feng, YANG Xue-mei, LI Zheng-que |
| 1757 | Aphid Occurrence and Damage Regulation and Its Control Technique in Rape Field | LI De-you, HE Yong-fu, LU De-qing, YE Zhao-chun, YUAN Jie |
| 1760 | Effect of pH, Sugar and Agar on Occurrence of Etiolated Seedlings in Shoot Tip Culture of Potato | HUANG Ping, MA Chao-hong, YAN Qian, DING Hai-bing |
| 1763 | Effects of Dondressing Slow-Release Fertilizers in Potato | ZHOU Rui-rong, SUN Rui-feng, XIAO Hou-jun, GOU Jiu-lan |
| 1766 | Spectrophotometric Determination of Aluminum in Flour Food Using Dry Ashing-Dissolved Samples through Nitric Acid Solution | XIE Yong-hong, YANG Ding-qing, LUO Xiao-mei, ZHOU Ya |
| 1770 | Inhibiting Effects of Two Types of Protein Denaturants in GMO Detection | SONG Jun, NIU Bei, WANG Dong, YOU Mi-sha, YIN Quan, TAO Li, LIU Yong, LEI Shao-rong |
| 1773 | Determination of Gentiamarin Content in Different Parts of <i>Gentiana rigescens</i> Cultivated in Guizhou | AO Mao-hong, SONG Zhi-qin |