ISSN 2095-1191
CODEN NNXAAB

科学出版社
全国中文核心期刊
中国科技核心期刊
中国科学引文数据库来源期刊
RCCSE中国核心学术期刊

# 南方农业学报

# NANFANG NONGYE XUEBAO

第44卷 第8期 2013年8月

# JOURNAL OF SOUTHERN AGRICULTURE

Vol.44 No.8 Aug. 2013

8
2013

广西壮族自治区农业科学院 主办
Sponsored by Guangxi Academy of Agricultural Sciences
科学出版社 出版
Published by Science Press

万方数据

# 南方农业学报

NANFANG NONGYE XUEBAO

第44卷 第8期 2013年8月


# 目 次


## 作物遗传育种·种质资源·分子生物学

1237 南林895杨离体培养及耐盐基因*GmNHX1*的转化 孙伟博,杨立恒,诸葛强

1243 太空诱变节水抗旱稻的AFLP分析 陈 晨,罗华程,余新桥,余舜武

1249 人工合成双二倍体小麦白粉病抗性和农艺性状表现 刘 迪,霍纳新,张立芳,贾继增

1254 桑树EST-SSR引物开发 高丽霞

1258 葡萄种质资源ISSR-PCR反应体系的建立与优化 代培红,朱 瑜,姚正培,李玮璐,马 丽,罗淑萍

## 耕作栽培·生理生化

1263 大宁烟生物学及烟叶化学组成特征分析 肖 拉,李开河,首安发,卢燕回,尹 辉,沈方科,顾明华,黎晓峰

1268 红花白千层茎段离体培养研究 伍成厚,黄春燕,刘 文,李冬妹,韦庆喜

1273 春大豆新品种桂春豆104的选育及高产栽培技术 陈怀珠,杨守臻,孙祖东,李初英,赵艳红,唐兴富,蔡昭艳,杨 微

## 植物保护·农业气象

1277 广西蔗区蔗茎红粉蚧发生危害调查 覃振强,邓展云,韦金菊,黄伟华

1282 乙基多杀菌素对稻纵卷叶螟室内毒力测定及田间药效试验 李燕芳,肖汉祥,张 扬,谢忠能,黄新培,王 彭,姚振威

1286 基于量子神经网络和组合特征参数的玉米叶部病害识别 张飞云

1291 水葫芦生防菌的分离筛选及初步鉴定 王小欣,卢柳吉,李其利,宁 平,周晓舟

1295 太阳辐射减弱和臭氧浓度增加对大豆荧光特性与产量的影响 郑有飞,古康乐,吴荣军,徐静馨,石茗化,胡会芳

## 土壤肥料·节水灌溉·农业生态环境

1303 不同施磷量对黄花蒿丛枝菌根形成、生长及产青蒿素的影响 谭伟东,沈茂杰,仇惠君,曾富兰,黄京华,黄荣韶,罗维刚,刘要鑫

1308 填闲作物对植烟土壤残留氮素吸收利用的影响 段淑辉,李 帆,钟越峰,朱开玲,裴晓东

1313 珠三角农田生态系统植被碳储量与碳密度动态研究 朱苑维,管东生,胡燕萍

1318 采伐和炼山对马尾松林土壤微生物多样性的影响 龙 涛,蓝嘉川,陈厚荣,王家妍,谢益君,陆晓明,雷丽群,朱宏光,温远光,蔡道雄

## 园艺·园林·林业

1324 矮壮素调控巨峰葡萄新梢生长研究初报 李洪艳,文仁德,林 玲,张 劲,陈国品,张 瑛


万方数据

1328 R 软件在植物种群分布格局研究中的应用 陈 伟,兰国玉
1333 猕猴桃根段扦插育苗试验 龚弘娟,叶开玉,蒋桥生,李洁维
1338 竹柏根及其共生体形态与解剖构造的观察 朱栗琼,黄宝灵,招礼军,罗叶红,韦立秀,文祥凤

## 加工·贮藏·农业工程

1343 黄皮叶黄酮类化合物的抗氧化性研究 张福平,汤艳姬,刘晓珍,陈焕彬,陈雪芬
1347 不同干燥工艺对铁皮石斛多糖及石斛碱的影响 辛 明,张娥珍,李 楠,黄振勇,苏燕竹,黄茂康,何全光
1351 BP 神经网络模型在烟草烘烤过程中叶温变化预测中的应用 汪 健,路晓崇,王 鹏,吴 明,孙曙光
1355 月季衰老机理及保鲜影响因素的研究进展 闫海霞,武 鹏,万正林,黄昌艳,何荆洲,卢家仕,卜朝阳

## 畜牧·兽医·水产·蚕桑

1362 牛*SOCS5*基因5'调控区多态性研究 杨永强,谢海强,刘 彬,孙岩岩,赵顺林,肖希希,龚 俞,焦仁刚,张依裕,刘若余
1367 草鱼的微卫星亲权鉴定 任 昆,白俊杰,樊佳佳,全迎春,于凌云
1372 PK15 细胞 cDNA T7 噬菌体展示文库的构建及鉴定 王国栋,邓小芸,刘书梅
1377 广西三黄鸡 *PPARγ* 基因克隆及实时荧光定量 PCR 的建立 彭广南,蒋钦杨,王 晶,郭亚芬,兰干球,蒋和生
1382 南美白对虾精子超低温冷冻保存技术研究 杨春玲,赵永贞,陈秀荔,李咏梅,彭 敏,杨彦豪,何苹萍,陈晓汉
1390 兔胚胎移植影响因素研究 黎 江,张 顺,管晓梅,敖秋桅,石金月,刘荣立,杨金姬,向 舒,陆凤花,韦英明,石德顺

## 专论·农业信息技术·农业经济

1394 广西 LUCC 过程与气候波动对农田生产潜力的影响 徐进勇,张增祥,李宗梅,赵晓丽,汪 潇,刘 斌
1402 广西农民人均纯收入增长途径探讨 陈禄青
1408 三峡库区食用菌产业纵横发展整合路径研究 赵 琳,张恩广
1411 珠三角“代耕农”问题的政策改进与管理策略选择 高青莲,夏 青,向安强

**期刊基本参数**:CN 45-1381/S*1940*m*A4*178*zh*P*¥15.00*1000*35*2013-8

万方数据

# JOURNAL OF SOUTHERN AGRICULTURE

Vol. 44 No.8, 2013

# CONTENTS

## Crop genetics & breeding·germplasm resources·biotechnology

1237 Culture *in vitro* of Nanlin 895 poplar and transformation of salt-tolerance related gene *GmNHX1* — SUN Wei-bo, YANG Li-heng, ZHU GE Qiang

1243 AFLP analysis of water-saving and drought-resistance rice induced by space flight — CHEN Chen, LUO Hua-cheng, YU Xin-qiao, YU Shun-wu

1249 Performance on powdery mildew resistance and agronomic traits of *Tritium turgidum* × *Aegilops tauschii* hybrids artificial amphidiploid — LIU Di, HUO Na-xin, ZHANG Li-fang, JIA Ji-zeng

1254 Development of EST-SSR primers in mulberry — GAO Li-xia

1258 Optimization of ISSR-PCR reaction system for grapes germplasm resources — DAI Pei-hong, ZHU Yu, YAO Zheng-pei, LI Wei-lu, MA Li, LUO Shu-ping

## Farming·physiology & biochemistry

1263 Biological traits and leaf chemical composition in Daning Tobacco — XIAO La, LI Kai-he, SHOU An-fa, LU Yan-hui, YIN Hui, SHEN Fang-ke, GU Ming-hua, LI Xiao-feng

1268 *In vitro* culture of *Melaleuca viridiflora* 'Red' stem — WU Cheng-hou, HUANG Chun-yan, LIU Wen, LI Dong-mei, WEI Qing-xi

1273 Breeding of spring soybean variety Guichundou 104 and its cultivation technique — CHEN Huai-zhu, YANG Shou-zhen, SUN Zu-dong, LI Chu-ying, ZHAO Yan-hong, TANG Xing-fu, CAI Zhao-yan, YANG Wei

## Plant protection·agrometeorology

1277 Investigation on occurrence and damage of pink sugarcane mealybug, *Saccharicoccus sacchari* (Cockerell) (Hemiptera: Pseudococcidae) in Guangxi sugarcane-growing area — QIN Zhen-qiang, DENG Zhan-yun, WEI Jin-jiu, HUANG Wei-hua

1282 Indoor toxicity and field efficacy of spinetoram against larvae of rice leaf roller, *Cnaphalocrocis* medinalis Guenée — LI Yan-fang, XIAO Han-xiang, ZHANG Yang, XIE Zhong-neng, HUANG Xin-pei, WANG Peng, YAO Zhen-wei

1286 Recognition of corn leaf disease based on quantum neural network and combination characteristic parameter — ZHANG Fei-yun

1291 Isolation and identification of pathogenic strain against water hyacinth (*Eichhornia crassipes*) — WANG Xiao-xin, LU Liu-ji, LI Qi-li, NING Ping, ZHOU Xiao-zhou

1295 Combination effects of reduced radiation and enhanced $O_3$ stress on chlorophyll fluorescence characteristics and yield of soybean — ZHENG You-fei, GU Kang-le, WU Rong-jun, XU Jing-xin, SHI Ming-hua, HU Hui-fang

## Soil & fertilizer·water saving irrigation·agroecology environment

1303 Effects of different phosphorus treatments on *Arbuscular mycorrhizal* formation, growth and artemisinin content of *Artemisia annua* — TAN Wei-dong, SHEN Mao-jie, QIU Hui-jun, ZENG Fu-lan, HUANG Jing-hua, HUANG Rong-shao, LUO Wei-gang, LIU Yao-xin

1308 Effects of catch crops on residual nitrogen utilization of tobacco-planted soil — DUAN Shu-hui, LI Fan, ZHONG Yue-feng, ZHU Kai-ling, PEI Xiao-dong

1313 Dynamic of vegetation carbon storage and carbon density of farmland ecosystem in Pearl River Delta — ZHU Yuan-wei, GUAN Dong-sheng, HU Yan-ping

1318 Influence of clear-cutting and prescribed burning on the soil microbial diversity in *Pinus massoniana* plantation — LONG Tao, LAN Jia-chuan, CHEN Hou-rong, WANG Jia-yan, XIE Yi-jun, LU Xiao-ming, LEI Li-qun, ZHU Hong-guang, WEN Yuan-guang, CAI Dao-xiong

万方数据

## Horticulture · landscape architecture · forestry


1324 Preliminary research report on cycocel (CCC) regulating shoot growth of "Kyoho" grape — LI Hong-yan, WEN Ren-de, LIN Ling, ZHANG Jing, CHEN Guo-pin, ZHANG Ying

1328 Application of R software on spatial distribution analysis of plant population — CHEN Wei, LAN Guo-yu

1333 Experiment of root cutting seedling of kiwifruit — GONG Hong-juan, YE Kai-yu, JIANG Qiao-sheng, LI Jie-wei

1338 Morphology and anatomical structure of *Nageia nagi* root and its symbioses — ZHU Li-qiong, HUANG Bao-ling, ZHAO Li-jun, LUO Ye-hong, WEI Li-xiu, WEN Xiang-feng


## Processing · storage · agricultural engineering


1343 Study on the antioxidant activity of flavonoids extracts from *Clausena lansium* leaves — ZHANG Fu-ping, TANG Yan-ji, LIU Xiao-zhen, CHEN Huan-bin, CHEN Xue-fen

1347 Effects of different drying methods on polysaccharides and dendrobine from *Dendrobium candidum* — XIN Ming, ZHANG E-zhen, LI Nan, HUANG Zhen-yong, SU Yan-zhu, HUANG Mao-kang, HE Quan-guang

1351 Establishment of a BP neural network model for predicting leaf temperature in tobacco baking process — WANG Jian, LU Xiao-chong, WANG Peng, WU Ming, SUN Shu-guang

1355 Research updates of the senescence mechanism and influencing factors of rose fresh-keeping — YAN Hai-xia, WU Peng, WAN Zheng-lin, HUANG Chang-yan, HE Jing-zhou, LU Jia-shi, BU Zhao-yang


## Animal science · veterinary science · aquiculture · sericulture


1362 Polymorphisms of 5′-flanking region of *SOCS5* gene in cattle — YANG Yong-qiang, XIE Hai-qiang, LIU Bin, SUN Yan-yan, ZHAO Shun-lin, XIAO Xi-xi, GONG Yu, JIAO Ren-gang, ZHANG Yi-yu, LIU Ruo-yu

1367 Parentage identification of grass carp (*Ctenopharyngodon idella*) using micro-satellites — REN Kun, BAI Jun-jie, FAN Jia-jia, QUAN Ying-chun, YU Ling-yun

1372 Construction and identification of T7 phage display cDNA library of PK15 cells — WANG Guo-dong, DENG Xiao-yun, LIU Shu-mei

1377 Cloning of peroxisome proliferator-activated receptors gama (*PPARγ*) gene in Guangxi Sanhuang chicken and its establish ment of real-time quantitative PCR — PENG Guang-nan, JIANG Qin-yang, WANG Jin, GUO Ya-fen, LAN Gan-qiu, JIANG He-sheng

1382 Spermatozoa cryopreservation of *Litopenaeus vannamei* — YANG Chun-ling, ZHAO Yong-zhen, CHEN Xiu-li, LI Yong-mei, PENG Min, YANG Yan-hao, HE Ping-ping, CHEN Xiao-han

1390 Influencing factors of embryo transfer in rabbits — LI Jiang, ZHANG Shun, GUAN Xiao-mei, AO Qiu-wei, SHI Jin-yue, LIU Rong-li, YANG Jin-ji, XIANG Shu, LU Feng-hua, WEI Ying-ming, SHI De-shun


## Monographs · agricultural information technology · agriculture economics


1394 Impact of land use change and climate fluctuations on potential productivity for farmland of Guangxi — XU Jin-yong, ZHANG Zeng-xiang, LI Zong-mei, ZHAO Xiao-li, WANG Xiao, LIU Bin

1402 Discussion on growth path about per capita annual net income of rural households of Guangxi farmers — CHEN Lu-qing

1408 Vertical and horizontal integration development model of edible fungi industrial chain in the Three Gorges Reservoir area — ZHAO Lin, ZHANG En-guang

1411 Policy improvement and management normalization for the problems of Daigeng Farmer in Pearl River Delta — GAO Qing-lian, XIA Qing, XIANG An-qiang


万方数据