



中文核心期刊
 中国科技核心期刊
 中国科学引文数据库(CSCD)来源期刊
 RCCSE中国核心学术期刊(A)
 中国农林核心期刊

ISSN 2095-1191
 CODEN NNXAAB

南方农业学报

Nanfang Nongye Xuebao

第51卷 第12期 2020年12月

Journal of Southern Agriculture

Vol.51 No.12 Dec. 2020

12

2020

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



南方农业学报

Nanfang Nongye Xuebao

第51卷 第12期 2020年12月

目次

优秀青年学者论坛

- 2865 红花檵木 *LcDRF1* 和 *LcDRF2* 基因克隆及亚细胞定位分析
..... 张邦跃, 李彩虹, 刘旋, 廖晓珊, 荣朵艳

作物遗传育种·种质资源·分子生物学

- 2875 酵母单杂交文库构建及巨峰葡萄 *VvFT* 基因启动子上游调控因子筛选
..... 黄桂媛, 张璞, 林玲, 韩佳宇, 时晓芳, 曹雄军, 郭荣荣
- 2884 酒用糯高粱 EMS 突变体库构建及突变体筛选
..... 丁延庆, 曹宁, 周棱波, 程斌, 高旭, 汪灿, 邹桂花, 张立异
- 2892 肺形侧耳种质资源拮抗反应及 RAPD 分子标记遗传多样性分析
..... 陈躬国, 陈剑, 吴汉琼, 刘新锐, 方洪枫, 骆志坚

生理生化·土壤肥料·农业生态环境

- 2901 马铃薯种植区不同土壤类型镉赋存形态及风险评估
..... 娄飞, 符东顺, 付天岭, 蔡娜, 杨世梅, 何腾兵
- 2911 芽期低温胁迫对早籼稻生长特性及产量的影响
..... 何汛锋, 唐双勤, 田雪飞, 武志峰, 曾研华, 曾勇军, 石庆华, 潘晓华, 吴自明, 李辉婕
- 2919 氮肥用量优化对甜玉米氮肥吸收利用率及氮循环微生物功能基因的影响
..... 徐如玉, 左明雪, 袁银龙, 孙杰, 顾文杰, 卢钰升, 解开治, 徐培智
- 2927 稀土微肥对盐胁迫下菘蓝种子萌发及幼苗抗氧化系统的影响
..... 韩多红, 王恩军, 张勇
- 2936 不同缓释肥对油菜品种黔油早2号生长发育及产量的影响
..... 代文东, 张超, 罗庆川, 邹成华, 黄泽素, 唐容, 曾家玉, 赵继献, 饶勇

植物保护·农业气象

- 2945 一株抗辣椒疮痂病菌生防菌株的鉴定及其生防机制初探
..... 詹梦琳, 陈长江, 罗晓华, 胡方平, 蔡学清
- 2952 三七根系分泌物中几种成分对根腐病原菌生长的影响
..... 罗丽芬, 江冰冰, 邓琳梅, 梅馨月, 黄惠川, 刘屹湘, 杨敏, 朱书生
- 2962 木霉菌对莴苣菌核病防治效果研究
..... 罗军, 杨蓉, 黄蕾蕾, 唐秀梅, 王孝源, 刘鹏, 朱森林, 邢承华
- 2971 猕猴桃根结线虫形态观察与病原鉴定
..... 舒然, 李磊, 龙友华, 顾桂飞, 张竹竹, 尹显慧
- 2978 不同寄主植物繁育烟蚜和烟蚜茧蜂效果比较
..... 张前进, 周文兵, 谷星慧, 张宏瑞, 张立猛

园艺·园林·林业

- 2985 施氮肥对6个树种间根尖功能性状关联的影响
..... 李应, 邓雨奇, 林声威, 王治博, 唐水昌, 康雨辰, 庄子楠, 许海武, 王文娜

- 2993 3个茶用菊花品种应对碱胁迫的生理响应及耐碱性评价 杨 欢,李锦馨,姚爱彬,王晨轩
 3004 橡胶树种质的分子量与分布差异及年度变化研究 曾 霞,张福全,周世俊,胡彦师,黄华孙
 3013 设施中果型优质无籽西瓜新品种桂系5号的选育
 解华云,何 毅,陈东奎,覃斯华,黄金艳,李桂芬,李天艳,洪日新,陆杰思,韦志扬

加工·贮藏·质量安全

- 3020 柠檬花精油挥发性成分的GC-MS分析
 尤桂春,林文忠,陈品品,武竞超,蔡锦玲,姚 文,蓝波妙
 3030 超声波辅助酶法提取琼枝麒麟菜多糖及其理化性质研究
 李继伟,杨贤庆,许加超,潘 创,戚 勃
 3040 贵州省威宁草海主要野生鱼类重金属含量及健康风险评价
 徐承香,杨瑞泉,巴家文,柳希竹,杜维锋,张思强
 3049 玉米皮替代玉米粉对湘东黑山羊内脏脂肪组织脂肪代谢的影响
 王 琪,骆东梅,王 荣,杨大盛,文江南,王 敏,韩雪峰,谭支良

畜牧·兽医·水产·蚕桑

- 3057 特异性识别草鱼呼肠孤病毒感染细胞的ssDNA核酸适配体筛选与鉴定
 余 庆,刘明珠,李梦梦,肖贺贺,韦信贤,童桂香,吴思婷,李鹏飞
 3066 猪miR-124靶向IQGAP2调节巨噬细胞内沙门氏菌的增殖
 陈 旺,邓 榆,殷 俊,官 州,金 凯,石博妹,黄廷华,姚 敏
 3073 罗非鱼不同养殖阶段喹诺酮类耐药菌群数量与组成分析
 吴甘林,邓玉婷,张瑞泉,谭爱萍,赵 飞,姜 兰
 3083 变异猪流行性腹泻病毒M和N双基因融合真核表达及其活性鉴定
 王隆柏,陈秋勇,吴学敏,陈如敬,车勇良,周伦江
 3090 卵形鲳鲹*MyoG*基因克隆及其胚胎组织表达分析
 张永德,冯鹏霏,余艳玲,潘传燕,宋漫玲,肖 蕊,罗洪林
 3099 猪源IKK γ 在原核和真核表达系统中的表达及其多克隆抗体制备
 赵祥秀,黄茂发,高跃美,唐榕泽,胡仁俊,梁晶晶,李晓宁,罗廷荣
 3109 家蚕卵形指数对孵化率的影响及孵化相关基因表达分析
 王雪珍,徐 娇,王闪闪,浦月霞,沈兴家,唐顺明
 3116 甘草对尖吻鲈生长特性、消化酶及免疫酶的影响
 王一福,周胜杰,杨 蕊,于 刚,王 志,马振华

农业信息技术·农业经济

- 3126 民族地区农业生产性服务业对产业结构和产业发展的影响 马 楠,贾淑仁

本期执行编辑:陈 燕

期刊基本参数:CN 45-1381/S*1940*m*A4*268*zh*P* ¥ 45.00*1000*31*2020-12

Journal of Southern Agriculture

Vol.51 No.12, 2020

Contents

Outstanding Young Scholars Forum

- 2865 Cloning and subcellular localization analysis of *LcDFR1* and *LcDFR2* in *Loropetalum chinense* var. *rubrum*
..... ZHANG Bang-yue, LI Cai-hong, LIU Xuan, LIAO Xiao-shan, RONG Duo-yan

Crop Genetics & Breeding · Germplasm Resources · Biotechnology

- 2875 Yeast one-hybrid library construction and screening of upstream regulators of *VvFT* promoter in kyoho grape
..... HUANG Gui-yuan, ZHANG Ying, LIN Ling, HAN Jia-yu, SHI Xiao-fang, CAO Xiong-jun, GUO Rong-rong
- 2884 Construction of EMS-induced mutant library and mutant screening in liquor-making waxy sorghum
..... DING Yan-qing, CAO Ning, ZHOU Leng-bo, CHENG Bin, GAO Xu, WANG Can, ZOU Gui-hua, ZHANG Li-yi
- 2892 Antagonistic reaction of *Pleurotus pulmonarius* germplasms and genetic diversity based on RAPD molecular markers
..... CHEN Gong-guo, CHEN Jian, WU Han-qiong, LIU Xin-rui, FANG Hong-feng, LUO Zhi-jian

Physiology & Biochemistry · Soil & Fertilizer · Agroecology Environmet

- 2901 Cadmium speciation and risk assessment of different soil types in potato planting area
..... LOU Fei, FU Dong-shun, FU Tian-ling, CAI Na, YANG Shi-mei, HE Teng-bing
- 2911 Effects of low temperature stress at bud stage on growth characteristics and yield of early indica rice
..... HE Xun-feng, TANG Shuang-qin, TIAN Xue-fei, WU Zhi-feng, ZENG Yan-hua,
ZENG Yong-jun, SHI Qing-hua, PAN Xiao-hua, WU Zi-ming, LI Hui-jie
- 2919 Effects of nitrogen fertilizer dosage optimization on nitrogen uptake content and utilization efficiency and microbial function genes of nitrogen cycle in sweet corn
..... XU Ru-yu, ZUO Ming-xue, YUAN Yin-long, SUN Jie, GU Wen-jie, LU Yu-sheng, XIE Kai-zhi, XU Pei-zhi
- 2927 Effects of rare earth micronutrients on seed germination and antioxidant system of *Isatis indigotica* Fort. under salt stress
..... HAN Duo-hong, WANG En-jun, ZHANG Yong
- 2936 Effects of different slow-release fertilizers on growth and yield of rapeseed Qianyouzao No.2
..... DAI Wen-dong, ZHANG Chao, LUO Qing-chuan, ZOU Cheng-hua, HUANG Ze-su,
TANG Rong, ZENG Jia-yu, ZHAO Ji-xian, RAO Yong

Plant Protection · Agrometeorology

- 2945 Identification of a biocontrol strain against *Xanthomonas euvesicatoria* and its biological control mechanism
..... ZHAN Meng-lin, CHEN Chang-jiang, LUO Xiao-hua, HU Fang-ping, CAI Xue-qing
- 2952 Effects of some components in root exudates of *Panax notoginseng*(Bark)F. H. Chen on the growth of root rot pathogens
..... LUO Li-fen, JIANG Bing-bing, DENG Lin-mei, MEI Xin-yue, HUANG Hui-chuan,
LIU Yi-xiang, YANG Min, ZHU Shu-sheng
- 2962 Control effects of *Trichoderma* against *Sclerotinia sclerotiorum* on lettuce
..... LUO Jun, YANG Rong, HUANG Lei-lei, TANG Xiu-mei, WANG Xiao-yuan, LIU Peng, ZHU Sen-lin, XING Cheng-hua
- 2971 Morphological observation and pathogen identification of kiwifruit root-knot nematodes
..... SHU Ran, LI Lei, LONG You-hua, GU Gui-fei, ZHANG Zhu-zhu, YIN Xian-hui
- 2978 Comparison of the ability of different host plants for rearing of *Myzus persicae* and *Aphidius gifuensis*
..... ZHANG Qian-jin, ZHOU Wen-bing, GU Xing-hui, ZHANG Hong-rui, ZHANG Li-meng

Horticulture · Landscape Architecture · Forestry

- 2985 Effects of nitrogen fertilization on the relationships of root tip functional traits among six tree species
..... LI Ying, DENG Yu-qi, LIN Sheng-wei, WANG Zhi-bo, TANG Shui-chang,
KANG Yu-chen, ZHUANG Zi-nan, XU Hai-wu, WANG Wen-na
- 2993 Physiological responses and alkali tolerance evaluation of three tea chrysanthemum varieties to alkali stress
..... YANG Huan, LI Jin-xin, YAO Ai-bin, WANG Chen-xuan
- 3004 Difference and annual change of molecular weight and distribution in *Hevea* germplasm
..... ZENG Xia, ZHANG Fu-quan, ZHOU Shi-jun, HU Yan-shi, HUANG Hua-sun
- 3013 Breeding of medium fruit type seedless watermelon variety Guixi No. 5 under facility cultivation
..... XIE Hua-yun, HE Yi, CHEN Dong-kui, QIN Si-hua, HUANG Jin-yan,
LI Gui-fen, LI Tian-yan, HONG Ri-xin, LU Jie-si, WEI Zhi-yang

Processing · Storage · Quality Safety

- 3020 Volatile components in essential oil of lemon flower by GC-MS
..... YOU Gui-chun, LIN Wen-zhong, CHEN Pin-pin, WU Jing-chao, CAI Jin-ling, YAO Wen, LAN Bo-miao
- 3030 Ultrasound-assisted enzymatic extraction and physicochemical properties of polysaccharide from *Eucommia gelatinosa*
..... LI Ji-wei, YANG Xian-qing, XU Jia-chao, PAN Chuang, QI Bo
- 3040 Heavy metal contents and health risk assessment of wild fish species in Caohai Lake in Weining County, Guizhou Province
..... XU Cheng-xiang, YANG Rui-quan, BA Jia-wen, LIU Xi-zhu, DU Wei-feng, ZHANG Si-qiang
- 3049 Effects of replacing corn meal with corn gluten on fat metabolism of adipose tissues of Xiangdong black goat
..... WANG Qi, LUO Dong-mei, WANG Rong, YANG Da-sheng, WEN Jiang-nan,
WANG Min, HAN Xue-feng, TAN Zhi-liang

Animal Science · Veterinary Science · Aquiculture · Sericulture

- 3057 Selection and characterization of ssDNA aptamer specifically recognizing grass carp reovirus (GCRV) infected fish cells
..... YU Qing, LIU Ming-zhu, LI Meng-meng, XIAO He-he, WEI Xin-xian, TONG Gui-xiang, WU Si-ting, LI Peng-fei
- 3066 Porcine miR-124 target IQGAP2 and regulating intracellular *Salmonella* proliferation in macrophage cells
..... CHEN Wang, DENG Yu, YIN Jun, GUAN Zhou, JIN Kai, SHI Bo-mei, HUANG Ting-hua, YAO Min
- 3073 Quantity and composition of quinolone-resistant microbiota at different breeding stages of tilapia
..... WU Gan-lin, DENG Yu-ting, ZHANG Rui-quan, TAN Ai-ping, ZHAO Fei, JIANG Lan
- 3083 Eukaryotic expression and active identification of the M and N double genes fusion plasmid for variant porcine epidemic diarrhea virus
..... WANG Long-bai, CHEN Qiu-yong, WU Xue-min, CHEN Ru-jing, CHE Yong-liang, ZHOU Lun-jiang
- 3090 Gene cloning of *MyoG* in *Trachinotus ovatus* and its embryonic tissues analysis
..... ZHANG Yong-de, FENG Peng-fei, YU Yan-ling, PAN Chuan-yan, SONG Man-ling, XIAO Rui, LUO Hong-lin
- 3099 Expression of porcine IKK γ in prokaryotic and eukaryotic expression systems and preparation of polyclonal antibodies
..... ZHAO Xiang-xiu, HUANG Mao-fa, GAO Yue-mei, TANG Rong-ze,
HU Ren-jun, LIANG Jing-jing, LI Xiao-ning, LUO Ting-rong
- 3109 Effects of egg shape index of silkworm (*Bombyx mori*) on hatching rate and related gene expression analysis
..... WANG Xue-zhen, XU Jiao, WANG Shan-shan, PU Yue-xia, SHEN Xing-jia, TANG Shun-ming
- 3116 Effects of glycyrrhiza on growth performance, digestive enzymes and immune enzymes of *Lates calcarifer*
..... WANG Yi-fu, ZHOU Sheng-jie, YANG Rui, YU Gang, WANG Zhi, MA Zhen-hua

Agricultural Information Technology · Agriculture Economics

- 3126 Effects of agricultural productive service on industrial structure and industrial development in ethnic regions
..... MA Nan, JIA Shu-ren