



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53卷 第9期 2022年9月

Journal of Southern Agriculture

Vol.53 No.9 Sep. 2022

9

2022



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53卷 第9期 2022年9月

目次

优秀青年学者论坛

- 2383 华东葡萄遗传连锁图谱构建及灰霉病抗性QTL定位
..... 潘凤英,刘露露,郭泽西,曲俊杰,尹玲,韦晓丽,韦淑梅,傅佩宁,孙大运

专题:土壤微生物多样性

- 2392 海南和西双版纳植胶区橡胶树根际真菌群落多样性分析
..... 许心诺,全飞,魏亚情,杨川,张辉,兰国玉
- 2403 基于高通量测序的有机种植蔬菜地土壤微生物多样性分析
..... 曾广娟,冯阳,吴舒,彭红丽,耿世刚
- 2415 蔗鸭共生对红壤蔗地土壤养分、酶活性及细菌多样性的影响
..... 马文清,郭强,闭德金,唐利球,韦持章,李宇翔,黄有总,王梓廷
- 2425 不同种植模式对桑园土壤肥力和土壤细菌群落结构的影响
..... 周丽,王一,李冬兵,刘筱雪,曾泽彬,王洪江,兰凤杰,刘学锋
- 2435 改良剂对酸性植烟土壤固氮菌群落结构和丰度的影响
..... 赵辉,王喜英,谭智勇,刘国权,刘杰,艾永峰
- 2444 生物炭对植烟土壤氮循环微生物及其功能基因的影响
..... 张汴泓,王成己,杨铭榆,潘睿欣,潘美清,唐莉娜,黄锦文
- 2457 不同原材料生物炭对农田土壤阿特拉津去除性能及微生物群落结构的影响
..... 卫婷,黄枫城,李慧君,陈艺杰,李高洋,张伟健,吴伟健,蔺中,甄珍
- 2468 有机培肥条件下红壤区稻田土壤病毒多样性及其对生物地球碳循环的影响
..... 郭小军,王欣,周旦,孙杰,解开治,齐鹏,徐培智,黄庆海,叶会财
- 2478 烟草根黑腐病不同发病程度与土壤养分及微生物群落的关系
..... 高正锋,白羽祥,朱宣全,徐丝,李梦,吕芬,姜寅,谢云富,白茂军,吴寿明
- 2487 3种滇牡丹根际木霉的促生功能及其对幼苗生长的影响
..... 顾英杰,王娟,杨贵钗,陈婉东,王俊威,潘悦

作物遗传育种·种质资源·分子生物学

- 2497 大旗瓣凤仙花与瑶山凤仙花叶绿体全基因组比较及系统发育分析(英文)
..... 陶大燕,宋倩,闫海霞,周锦业,关世凯,潘有强,罗述名
- 2510 木薯ERF转录因子基因*MeERF5*克隆及表达分析 吴红漫,林世扬,颜彦,胡伟
- 2518 蓖麻*RcFEN1*基因克隆及非生物胁迫下表达模式分析
..... 李艳肖,张春兰,于华荣,于静辉,向殿军,刘鹏
- 2527 利用转录组测序开发甘蔗SNP分子标记 胡小文,孔冉,刘洋,徐志军,苏俊波
- 2537 茶树*Whirly*基因家族的鉴定与表达分析
..... 张续周,周艳华,王悦燕,李波,王缓,郑仪倩,王玉,郎旭旭,钱文俊

- 2547 基于TP-M13-SSR分子标记技术的133份薄皮甜瓜种质资源遗传多样性分析
..... 解华云,高崇敏,叶云峰,覃斯华,李桂芬,黄金艳,何毅,李天艳,柳唐镜,洪日新

植物保护·农业气象

- 2557 生姜主栽品种枯萎病抗性评价及抗病性鉴定指标筛选
..... 周洁,王艳红,刘德麒,席克勇,杨培华,蔡小东,李港,马佳伟,贾切,乐有章
- 2568 贝莱斯芽孢杆菌B4-7联合水稻秸秆生物炭对烟草青枯病的防治作用
..... 曹帅,李金梦,王蓝琴,孟祥佳,孙正祥,周燚
- 2575 橡胶树叶斑病病原菌鉴定及其生物学特性测定和防治药剂筛选
..... 施玉萍,刘一贤,李岚岚,戴利铭,蔡志英

加工·贮藏·质量安全

- 2585 白茶精加工过程茶尘分布与除尘措施研究
..... 陈彬,柳镇章,林宏政,赵梦莹,郝志龙,林振传,孙云
- 2595 构树叶加工前后风味成分变化分析
..... 王庆福,黄清铧,吴兆鹏,谭文兴,梁磊,林明威,林驹
- 2603 黄皮与山黄皮不同部位黄酮、多酚含量及抗氧化活性比较
..... 邱梦瑜,何子靖,张衍馨,李献,刘敏,周格梅,李宝生,简进龙,任惠,颜健华
- 2612 磷脂酶及其调控种子活力研究进展 史敬芳,张琪,宋松泉,刘军

畜牧·兽医·水产·蚕桑

- 2624 罗汉果甜苷V对持续光照小鼠脂肪积累的缓解作用
..... 刘嘉昊,王金兴,胡俊杰,冯明,蒋慧敏,李孟琪,卢克焯,杨小淦,梁兴伟
- 2634 狂犬病病毒P和M基因重组突变体的生物学特性分析
..... 张银,金硕,栗朵朵,Abraha Bahlbi Kiflu,韩菲,武梦思,凌小清,梁晶晶,李晓宁,罗廷荣
- 2643 关岭牛MEF2A和MEF2B基因克隆及其组织表达特征分析
..... 孙金魁,许厚强,阮涌,宋林锦,许家利,陈晨,石鹏飞
- 2654 生牛乳中高黏液型肺炎克雷伯菌耐药、毒力及生物被膜形成能力分析
..... 王慧,高茂桢,孙晓红
- 2665 家蚕DNA甲基转移酶功能预测及其在BmNPV感染下的表达特征
..... 张一川,张永红,邵榆岚,白兴荣
- 2674 广谱型鸡传染性支气管炎病毒N蛋白单克隆抗体的制备与鉴定
..... 林丽婷,赵长润,张文,张愉,雍璐,唐金文,吕迪,韦平,磨美兰
- 2683 白藜芦醇和EGCG联用对小鼠骨骼肌抗氧化能力的影响
..... 陈敏,周金凤,韦崇万,蒋钦杨,黄艳娜
- 2691 胎次和产奶量对奶牛泌乳性能的影响
..... 余诗强,李留学,赵慧颖,张一涵,熊本海,申跃宇,蒋林树,赵玉超

Journal of Southern Agriculture

Vol.53 No.9, 2022

Contents

Outstanding Young Scholars Forum

- 2383 *Vitis pseudoreticulata* genetic map construction and QTL mapping to its gray mold resistance
..... PAN Feng-ying, LIU Lu-lu, GUO Ze-xi, QU Jun-jie, YIN Ling, WEI Xiao-li, WEI Shu-mei, FU Pei-ning, SUN Da-yun

Special Subject: Soil Microbial Diversity

- 2392 Diversity analysis of rhizosphere fungal communities of rubber trees in rubber plantation area of Hainan and Xishuangbanna
..... XU Xin-nuo, QUAN Fei, WEI Ya-qing, YANG Chuan, ZHANG Hui, LAN Guo-yu
- 2403 Soil microbial diversity analysis in organic vegetable field based on high-throughput sequencing
..... ZENG Guang-juan, FENG Yang, WU Shu, PENG Hong-li, GENG Shi-gang
- 2415 Effects of sugarcane-duck symbiosis on soil nutrients, enzyme activity and bacteria diversity of sugarcane in red soil
..... MA Wen-qing, GUO Qiang, BI De-jin, TANG Li-qiu, WEI Chi-zhang, LI Yu-xiang, HUANG You-zong, WANG Zi-ting
- 2425 Effects of different planting patterns on soil fertility and soil bacterial community structure in mulberry field
..... ZHOU Li, WANG Yi, LI Dong-bing, LIU Xiao-xue, ZENG Ze-bin, WANG Hong-jiang, LAN Feng-jie, LIU Xue-feng
- 2435 Effects of amendment application on structure and abundance of nitrogen-fixing microbial community in acidic tobacco-planting soil
..... ZHAO Hui, WANG Xi-ying, TAN Zhi-yong, LIU Guo-quan, LIU Jie, AI Yong-feng
- 2444 Effects of biochar on nitrogen cycling microbes and their functional genes in tobacco-growing soils
..... ZHANG Bian-hong, WANG Cheng-ji, YANG Ming-yu, PAN Rui-xin, PAN Mei-qing, TANG Li-na, HUANG Jin-wen
- 2457 Effects of biochar from different raw materials on atrazine removal and microbial community structure in farmland soil
..... WEI Ting, HUANG Feng-cheng, LI Hui-jun, CHEN Yi-jie, LI Gao-yang, ZHANG Wei-jian, WU Wei-jian, LIN Zhong, ZHEN Zhen
- 2468 Paddy soil virus diversity in red soil region under organic fertilization and its effects on biogeographical carbon cycle
..... GUO Xiao-jun, WANG Xin, ZHOU Dan, SUN Jie, XIE Kai-zhi, QI Peng, XU Pei-zhi, HUANG Qing-hai, YE Hui-cai
- 2478 Relationship between tobacco root black rot incidence degree and soil nutrients and microbial community
..... GAO Zheng-feng, BAI Yu-xiang, ZHU Xuan-quan, XU Si, LI Meng, LYU Fen, JIANG Yin, XIE Yun-fu, BAI Mao-jun, WU Shou-ming
- 2487 Growth promoting function of three *Trichoderma* species in *Paeonia delavayi* rhizosphere and their effects on seedling growth
..... GU Ying-jie, WANG Juan, YANG Gui-chai, CHEN Wan-dong, WANG Jun-wei, PAN Yue

Crop Genetics & Breeding · Germplasm Resources · Biotechnology

- 2497 Phylogenetic analysis and comparison of the complete chloroplast genomes in *Impatiens macrovexilla* and *I. macrovexilla* var. *yaoshanensis*
..... TAO Da-yan, SONG Qian, YAN Hai-xia, ZHOU Jin-ye, GUAN Shi-kai, PAN You-qiang, LUO Shu-ming
- 2510 Cloning and expression analysis of ERF transcription factor gene *MeERF5* in cassava
..... WU Hong-man, LIN Shi-yang, YAN Yan, HU Wei
- 2518 Cloning of *RcFEN1* gene in castor (*Ricinus communis*) and its expression pattern under abiotic stress
..... LI Yan-xiao, ZHANG Chun-lan, YU Hua-rong, YU Jing-hui, XIANG Dian-jun, LIU Peng
- 2527 SNP molecular marker development based on sugarcane transcriptome sequencing
..... HU Xiao-wen, KONG Ran, LIU Yang, XU Zhi-jun, SU Jun-bo
- 2537 Identification and expression analysis of *Whirly* gene families in *Camellia sinensis* (L.) O. Kuntze
..... ZHANG Xu-zhou, ZHOU Yan-hua, WANG Yue-yan, LI Bo, WANG Huan, ZHENG Yi-qian, WANG Yu, LANG Xu-xu, QIAN Wen-jun

- 2547 Genetic diversity analysis of 133 pellicle melon germplasm resources based on TP-M13-SSR molecular marker technology XIE Hua-yun, GAO Chong-min, YE Yun-feng, QIN Si-hua, LI Gui-fen, HUANG Jin-yan, HE Yi, LI Tian-yan, LIU Tang-jing, HONG Ri-xin

Plant Protection · Agrometeorology

- 2557 Identification and evaluation of resistance to fusarium wilt of ginger varieties and screening of resistance indexes ZHOU Jie, WANG Yan-hong, LIU De-qi, XI Ke-yong, YANG Pei-hua, CAI Xiao-dong, LI Gang, MA Jia-wei, JIA Qie, YUE You-zhang
- 2568 Control effect of *Bacillus velezensis* B4-7 combined with rice straw biochar on tobacco bacterial wilt CAO Shuai, LI Jin-meng, WANG Lan-qin, MENG Xiang-jia, SUN Zheng-xiang, ZHOU Yi
- 2575 Identification and biological characterization of rubber tree leaf spot disease pathogen and fungicide screening SHI Yu-ping, LIU Yi-xian, LI Lan-lan, DAI Li-ming, CAI Zhi-ying

Processing · Storage · Quality Safety

- 2585 Tea dust distribution and dust removal measures during white tea finishing CHEN Bin, LIU Zhen-zhang, LIN Hong-zheng, ZHAO Meng-ying, HAO Zhi-long, LIN Zhen-chuan, SUN Yun
- 2595 Flavor composition changes in leaves before and after processing of *Broussonetia papyrifera* WANG Qing-fu, HUANG Qing-hua, WU Zhao-peng, TAN Wen-xing, LIANG Lei, LIN Ming-wei, LIN Ju
- 2603 Comparison of flavonoids content, polyphenols content and antioxidant activity of different parts of *Clausena lansium* (Lour.) Skeels and *C. anisum-olens* (Blanco) Merr. QIU Meng-yu, HE Zi-jing, ZHANG Yan-xin, LI Xian, LIU Min, ZHOU Ge-mei, LI Bao-sheng, JIAN Jin-long, REN Hui, YAN Jian-hua
- 2612 Phospholipases and their seed vigor regulation: A review SHI Jing-fang, ZHANG Qi, SONG Song-quan, LIU Jun

Animal Science · Veterinary Science · Aquiculture · Sericulture

- 2624 Mogroside V attenuated constant light exposure-induced accumulation of body fat mass in mice LIU Jia-hao, WANG Jin-xing, HU Jun-jie, FENG Ming, JIANG Hui-min, LI Meng-qi, LU Ke-huan, YANG Xiao-gan, LIANG Xing-wei
- 2634 Biological characterization of recombinant mutants of P and M genes of rabies virus ZHANG Yin, JIN Shuo, LI Duo-duo, Abraha Bahlbi Kiflu, HAN Fei, WU Meng-si, LING Xiao-qing, LIANG Jing-jing, LI Xiao-ning, LUO Ting-rong
- 2643 Cloning and tissue expression analysis of *MEF2A* and *MEF2B* genes in Guanling cattle SUN Jin-kui, XU Hou-qiang, RUAN Yong, SONG Lin-jin, XU Jia-li, CHEN Chen, SHI Peng-fei
- 2654 Analysis of drug resistance, virulence and biofilm formation ability in hypermucoviscous *Klebsiella pneumoniae* from raw milk WANG Hui, GAO Mao-an, SUN Xiao-hong
- 2665 Functional prediction of DNA methyltransferase in silkworm and expression characteristics under BmNPV infection ZHANG Yi-chuan, ZHANG Yong-hong, SHAO Yu-lan, BAI Xing-rong
- 2674 Preparation and identification of broad-spectrum monoclonal antibodies against N protein of avian infectious bronchitis virus LIN Li-ting, ZHAO Chang-run, ZHANG Wen, ZHANG Yu, YONG Lu, TANG Jin-wen, LYU Di, WEI Ping, MO Mei-lan
- 2683 Effects of resveratrol and EGCG combination on antioxidant capacity of mouse skeletal muscle CHEN Min, ZHOU Jin-feng, WEI Chong-wan, JIANG Qin-yang, HUANG Yan-na
- 2691 Effects of parity and milk yield on lactation performance of dairy cows YU Shi-qiang, LI Liu-xue, ZHAO Hui-ying, ZHANG Yi-han, XIONG Ben-hai, SHEN Yue-yu, JIANG Lin-shu, ZHAO Yu-chao