

南方农业学报

Nanfang Nongye Xuebao

第51卷 第7期 2020年7月

目次

优秀青年学者论坛

- 1511 绵羊 *Fsp27* 基因 5'-UTR 区碱基突变与尾脂沉积能力的关联性
..... 张伟,王世银,高莉,徐梦思,王新华,甘尚权
- 1520 麦茬高度对宜粒收夏玉米苗期质量、干物质转运及产量的影响
..... 夏来坤,谷利敏,黄保,穆心愿,齐建双,丁勇,唐保军,张凤启,张君,邢健伟

专题:热带水果

- 1529 龙眼 *SPS* 基因克隆及其表达分析 帅良,殷菲胧,廖玲燕,刘云芬,段振华,宋慕波
- 1537 广西原产和引种荔枝种质资源的遗传多样性分析及核心种质构建
..... 李冬波,徐宁,秦献泉,李鸿莉,侯延杰,邱宏业,张树伟,朱建华,彭宏祥
- 1545 施用土壤 pH 改良剂对弱碱性荔枝园土壤性质及荔枝生长的影响
..... 邱全敏,罗东林,罗乐洋,周昌敏,白翠华,姚丽贤
- 1553 8 个番荔枝栽培品种的花粉形态扫描电镜观察
..... 方仁,安振宇,黄伟雄,白先进,尧金燕,龙兴,周双云,张继
- 1560 火龙果采后病原菌的分离鉴定及抑制效应研究 胡翠平,黄慧燕,周桂
- 1568 定植时间和种苗规格对 3 个菠萝品种自然开花效应的影响
..... 王小媚,刘业强,徐健,任惠,董龙,方位宽,蔡昭艳,苏伟强,黄章保,邱文武
- 1576 不同架式栽培对台农 1 号百香果果实品质和产量的影响
..... 袁启凤,陈楠,严佳文,李仕品,韩秀梅,马玉华
- 1584 海藻酸钠—银纳米粒子涂膜保鲜香蕉研究 蓝嫫嫫,韦蕾,杜良伟,冯家勋,王彦辉
- 1591 不同芒果品种对蓟马的抗虫性评价 张中润,高燕,黄建峰,朱敏,肖丽燕,项丹丹
- 1598 2020 年我国荔枝主产区的生产形势分析 苏钻贤,杨胜男,陈厚彬,申济源

作物遗传育种·种质资源·分子生物学

- 1606 水稻 B-box 锌指蛋白基因 *OsBBX26* 的克隆及表达分析
..... 邓军,罗正良,朱菲莹,陈希,方勇,任甄胜,任光俊,高方远
- 1614 高羊茅 *FaGST1* 基因克隆、亚细胞定位及表达分析
..... 陈锡,赵德刚,陈莹,吴佳海,袁暘暘,王小利
- 1625 番茄 *SIMAPK6* 基因克隆及其表达特性分析
..... 岳宁波,李云洲,李玉龙,潘鹏程,潘寅涛,王勇,须文,吴浪,闫见敏
- 1634 云南火焰兰转录组 SSR 分布及其序列特征分析
..... 辛静,辛雅莹,董章宏,瞿绍宏,姚国琼,李凤,屈亚亚,唐军荣
- 1642 茎瘤芥特晚熟胞质雄性不育系的选育及鉴定
..... 莫言玲,刘义华,曾静,陈静静,张友燕,李昌满

生理生化·土壤肥料·农业生态环境

- 1650 岩溶区不同土地利用方式土壤碳、氮、磷生态化学计量的空间变异性研究
..... 张春来,杨 慧,曹建华,刘绍华
- 1660 适宜机直播的优质籼稻品种筛选及其评价指标体系
..... 李 敏,周维佳,罗德强,江学海,蒋明金,姬广梅,李立江,向 明,陈 卓,杨 宇
- 1669 利用滑石粉作为甜玉米花粉增量剂的贮藏技术分析及应用 龙誉铭,夏州藩,赵竝博
- 1677 海南雪茄烟叶不同育苗方式育苗效果分析
..... 高华军,林北森,马兴华,蔡 斌,贺 远,耿召良,向小华,刘好宝

植物保护·农业气象

- 1684 基于mtDNA *COI*和mtDNA *CO II*分子标记的贵州省茶棍蓟马种群遗传多样性分析
..... 罗林丽,孟泽洪,李 帅,赵兴丽,周罗娜,贺圣凌,周玉锋
- 1693 湖北和广西辣椒脉斑驳病毒的检测及遗传多样性分析
..... 李桑桑,胡 荣,罗香文,李诗君,卜 珊,张 宇,刘 勇,张松柏
- 1699 枯草芽孢杆菌M-23对柑橘砂皮病防效及柑橘叶际细菌群落多样性的影响
..... 李审微,洪艳云,李新文,何可佳,戴良英,卢晓鹏,宋 娜,易图永

畜牧·兽医·水产·蚕桑

- 1706 大刺鳅促黄体生成素基因克隆及其组织表达分析
..... 黄小琪,钟东明,何佩莹,张明清,周惠强,舒 琥
- 1714 猪 *USP18* 基因表达规律及其与产仔数性状的关联分析
..... 周泉勇,万明春,季华员,刘晨龙,方绍培,黄江南
- 1721 水温和雌雄配比对罗氏沼虾能量代谢的影响 张俊功,戴习林,丁福江
- 1729 三穗鸭 *IP3R3* 基因 SNP 位点鉴定及其对蛋壳品质的影响
..... 李杰章,谭光辉,吴 磊,覃媛钰,张依裕
- 1737 中药(赶黄草+波棱瓜子)提取物对小鼠维生素A急性中毒早期的治疗效果
..... 曹 冶,于吉峰,谢 晶,张先惠,彭广能,钟志军,康润敏
- 1744 塘养建鲤背鳍、尾鳍和腹鳍指数的线性体重表征
..... 刘 超,周继术,王在照,冯 鹏,吕亚军,翟国威
- 1754 基于浮游生物完整性指数的不同循环饥饿投饲模式黄颡鱼养殖塘水质评价
..... 张亚军,秦秀东,李恩军,程光平,李文红,张伟刚,孙玉章,张 曼,崔 亮,赵晚晨
- 1764 干燥工艺对罗非鱼片品质的影响 罗 静,李 敏,关志强

农业信息技术·农业经济

- 1776 加快广西农业科技成果转化机制创新研究 黄永清,宁夏,孔令孜,李小红,韦志扬

Journal of Southern Agriculture

Vol.51 No.7, 2020

Contents

Outstanding Young Scholars Forum

- 1512 Relationship between mutation of *Fsp27* gene 5'-UTR region base and the ability of depositing tail fat in sheep (*Ovis aries*) ZHANG Wei, WANG Shi-yin, GAO Li, XU Meng-si, WANG Xin-hua, GAN Shang-quan
- 1520 Effects of wheat stubble height on seedling quality, dry matter remobilization and yield of summer maize suitable for mechanical grain harvesting XIA Lai-kun, GU Li-min, HUANG Bao, MU Xin-yuan, QI Jian-shuang, DING Yong, TANG Bao-jun, ZHANG Feng-qi, ZHANG Jun, XING Jian-wei

Special Subject: Tropical Fruits

- 1529 Cloning and expression of *SPS* gene in longan SHUAI Liang, YIN Fei-long, LIAO Ling-yan, LIU Yun-fen, DUAN Zhen-hua, SONG Mu-bo
- 1537 Genetic diversity and construction of core collections of litchi (*Litchi chinensis* Sonn.) germplasm originated and introduced in Guangxi LI Dong-bo, XU Ning, QIN Xian-quan, LI Hong-li, HOU Yan-jie, QIU Hong-ye, ZHANG Shu-wei, ZHU Jian-hua, PENG Hong-xiang
- 1545 Effects of soil pH improver on property of alkaline soil in litchi orchard and litchi growth QIU Quan-min, LUO Dong-lin, LUO Le-yang, ZHOU Chang-min, BAI Cui-hua, YAO Li-xian
- 1553 Morphology of pollens of eight *Annona squamosa* L. varieties by scanning electron microscope FANG Ren, AN Zhen-yu, HUANG Wei-xiong, BAI Xian-jin, YAO Jin-yan, LONG Xing, ZHOU Shuang-yun, ZHANG Ji
- 1560 Isolation, identification and inhibition of a postharvest pathogenic fungus from pitaya HU Cui-ping, HUANG Hui-yan, ZHOU Gui
- 1568 Effects of planting time and specification of the seedlings on natural flowering of three pineapple varieties WANG Xiao-mei, LIU Ye-qiang, XU Jian, REN Hui, DONG Long, FANG Wei-kuan, CAI Zhao-yan, SU Wei-qiang, HUANG Zhang-bao, QIU Wen-wu
- 1576 Fruit quality and yield of passion fruit Tainong No. 1 under different frame modes YUAN Qi-feng, CHEN Nan, YAN Jia-wen, LI Shi-pin, HAN Xiu-mei, MA Yu-hua
- 1584 Preservation effect of sodium alginate-silver nanoparticles composite coating on banana LAN Yuan-yuan, WEI Lei, DU Liang-wei, FENG Jia-xun, WANG Yan-hui
- 1591 Evaluation on the resistance of different mango varieties to thrips ZHANG Zhong-run, GAO Yan, HUANG Jian-feng, ZHU Min, XIAO Li-yan, XIANG Dan-dan
- 1598 Analysis of the production situation for litchi in main planting areas of China in 2020 SU Zuan-xian, YANG Sheng-nan, CHEN Hou-bin, SHEN Ji-yuan

Crop Genetics & Breeding · Germplasm Resources · Biotechnology

- 1606 Cloning and expression analysis of B-box zinc-finger protein gene *OsBBX26* in rice DENG Jun, LUO Zheng-liang, ZHU Fei-ying, CHEN Xi, FANG Yong, REN Juan-sheng, REN Guang-jun, GAO Fang-yuan
- 1614 Cloning, subcellular localization and expression analysis of *FaGSTI* in tall fescue CHEN Xi, ZHAO De-gang, CHEN Ying, WU Jia-hai, YUAN Yang-yang, WANG Xiao-li
- 1625 Cloning and expression analysis of *SIMPK6* gene in tomato YUE Ning-bo, LI Yun-zhou, LI Yu-long, PAN Peng-cheng, PAN Yin-tao, WANG Yong, XU Wen, WU Lang, YAN Jian-min

- 1634 **Distribution and sequence characteristics of SSR in transcriptome of *Renanthera imschootiana* Rolfe**
 XIN Jing, XIN Ya-xuan, DONG Zhang-hong, QU Shao-hong, YAO Guo-qiong, LI Feng, QU Ya-ya, TANG Jun-rong
- 1642 **Breeding and identification of cytoplasmic male sterile(CMS) lines of especially late-maturing tumorous stem mustard**
 MO Yan-ling, LIU Yi-hua, ZENG Jing, CHEN Jing-jing, ZHANG You-yan, LI Chang-man

Physiology & Biochemistry · Soil & Fertilizer · Agroecology Environmet

- 1650 **Spatial variability of soil carbon, nitrogen and phosphorus ecological stoichiometry of different land uses in karst area**
 ZHANG Chun-lai, YANG Hui, CAO Jian-hua, LIU Shao-hua
- 1660 **Selection of *Indica* rice varieties and its evaluation index system for mechanized direct-seeded rice**
 LI Min, ZHOU Wei-jia, LUO De-qiang, JIANG Xue-hai, JIANG Ming-jin,
 JI Guang-mei, LI Li-jiang, XIANG Ming, CHEN Zhuo, YANG Yu
- 1669 **Analysis and application of storage technology using talcum powder as increment agent for sweet corn pollen**
 LONG Yu-ming, XIA Zhou-fan, ZHAO Hong-bo
- 1677 **Effects of different seedling styles on seedling of cigar leaf in Hainan**
 GAO Hua-jun, LIN Bei-sen, MA Xing-hua, CAI Bin, HE Yuan, GENG Zhao-liang, XIANG Xiao-hua, LIU Hao-bao

Plant Protection · Agrometeorology

- 1684 **Genetic diversity among populations of *Dendrothrips minowai* Priesner in Guizhou based on mtDNA *CO I* and mtDNA *CO II* molecular markers**..... LUO Lin-li, MENG Ze-hong, LI shuai, ZHAO Xing-li,
 ZHOU Luo-na, HE Sheng-ling, ZHOU Yu-feng
- 1693 **Detection and genetic identity of *Pepper veinal mottle virus* in Hubei and Guangxi**
 LI Sang-sang, HU Rong, LUO Xiang-wen, LI Shi-jun, BU Shan, ZHANG Yu, LIU Yong, ZHANG Song-bai
- 1699 **Effects of *Bacillus subtilis* M-23 on *Diaporthe citri* and diversity of bacterial community in the citrus phyllosphere**
 LI Shen-wei, HONG Yan-yun, LI Xin-wei, HE Ke-jia, DAI Liang-ying, LU Xiao-peng, SONG Na, YI Tu-yong

Animal Science · Veterinary Science · Aquiculture · Sericulture

- 1706 **Cloning and tissue expression of luteinizing hormone(LH) gene in *Mastacembelus armatus***
 HUANG Xiao-qi, ZHONG Dong-ming, HE Pei-ying, ZHANG Ming-qing, ZHOU Hui-qiang, SHU Hu
- 1714 **Expression of porcine *Usp18* gene and its association with litter size**
 ZHOU Quan-yong, WAN Ming-chun, JI Hua-yuan, LIU Chen-long, FANG Shao-pei, HUANG Jiang-nan
- 1721 **Effects of temperature and female-male mating ratios on energy metabolism of *Macrobrachium rosenbergii***
 ZHANG Jun-gong, DAI Xi-lin, DING Fu-jiang
- 1729 **Identification of SNP locus of *IP3R3* gene in Sansui duck and its effect on eggshell quality**
 LI Jie-zhang, TAN Guang-hui, WU Lie, QIN Yuan-yu, ZHANG Yi-yu
- 1737 **Effects of Chinese herbal(*Herpetospermum caudigerum*+*Penthorum chinense* Pursh) extracts on early stage of acute vitamin A poisoning in mice** CAO Ye, YU Ji-feng, XIE Jing, ZHANG Xian-hui, PENG Guang-neng,
 ZHONG Zhi-jun, KANG Run-min
- 1744 **Linear weight characterization of dorsal fin, caudal fin and pelvic fin index of *Cyprinus carpio*var Jian in pond**
 LIU Chao, ZHOU Ji-shu, WANG Zai-zhao, FENG Peng, LYU Ya-jun, ZHAI Guo-wei
- 1754 **Evaluation of water quality in *Pelteobagrus fulvidraco* culture ponds with different circular starvation feeding mode based on plankton integrity index** ZHANG Ya-jun, QIN Xiu-dong, LI En-jun, CHENG Guang-ping, LI Wen-hong,
 ZHANG Wei-gang, SUN Yu-zhang, ZHANG Man, CUI Liang, ZHAO Wan-chen
- 1764 **Effects of drying processes on quality of tilapia fillets** LUO Jing, LI Min, GUAN Zhi-qiang

Agricultural Information Technology · Agriculture Economics

- 1776 **Speeding up Guangxi agricultural science and technology achievement transformation mechanism innovation**
 HUANG Yong-qing, NING Xia, KONG Ling-zi, LI Xiao-hong, WEI Zhi-yang