



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
中国核心学术期刊
中国农业核心期刊

ISSN 2095-1191
CODEN NNXAAB

南方农业学报

Nanfang Nongye Xuebao

第49卷 第1期 2018年1月

Journal of Southern Agriculture

Vol.49 No.1 Jan. 2018

1

2018



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49卷 第1期 2018年1月

目次

作物遗传育种·种质资源·分子生物学

- 1 葛根SCoT-PCR反应体系优化及引物筛选
- 8 不同茯苓菌株的质量评价及遗传关系鉴定
- 14 CRISPR/Cas9系统及其在作物育种中的应用
- 尚小红,严华兵,曹升,张尚文,
谢向誉,王艳,欧昆鹏
吴胜莲,唐少军,靳磊,邵晨霞,
杨伟,贺月林
黄娟,邓国富,高利军,高菊,
卿冬进,朱昌兰

生理生化·土壤肥料·农业生态环境

- 22 土壤微生物对玉米秸秆还田的响应特征
——亚热带石灰土与红壤的典型对比(英文)
- 30 L-β-苯基乳酸对小麦幼苗生长及生理的影响
- 36 不同栽培模式对土壤理化性状及广西冬种马铃薯产量的影响
- 42 甘蔗品种桂糖42号的种性及其高产稳产性分析与评价
- 48 赤霉素与叶面钾肥混施对烤烟上部叶生长、产量和品质的影响
- 56 盐生植物和秸秆覆盖对滩涂极重度盐土养分和降盐效果的影响
- 黄芬,韦红群,曹建华
施炯泓,叶莉,刘腊梅,朱益波,
朱东兴,王立梅
李丽淑,樊吴静,杨鑫,唐洲萍,
谭冠宁,何虎翼
邓宇驰,王伦旺,王泽平,黄海荣,
贤武
卜令铎,计思贵,李江舟,张立猛,
王绍忠,纳红艳
张蛟,崔士友

植物保护·农业气象

- 62 福建省水稻稻纵卷叶螟田间种群对6种杀虫剂的敏感性测定
- 68 稻曲病菌薄壁分生孢子产孢平板培养基的筛选
- 74 土沉香幼苗炭疽病病原分离与鉴定
- 79 海拔对魔芋根际微生物区系和软腐病发生的影响
- 85 9种夹竹桃科和大戟科植物抗菌和抗氧化活性测定
- 邱良妙,刘其全,卢学松,占志雄
蒲相君,王忠文,杨平,张丽丽,
张君成
廖旺姣,邹东霞,黄华艳,罗辑,
赵程劼,吴耀军
徐佳欣,刘芳,吴三林,龚明福,
张娅,罗燕梅
张伟豪,翁道玥,宋慧云,崔泽华,
孙坚,吴玉婷,单体江

园艺·园林·林业

- 91 硒对铜胁迫酿酒葡萄幼苗生理特性的影响
- 98 秀珍菇退化菌株生物学特征比较及dsRNA病毒检测
- 104 保水剂对干旱胁迫槟榔幼苗生理特征的影响
- 朱娟娟,马海军
柯斌榕,卢政辉,吴小平,陈发川,
兰清秀
李 佳,刘立云,李 艳,周焕起

- 109

叶面喷施ALA对彩色马蹄莲种球及盆花品质的影响
- 116

西南桦幼林氮磷钾肥添加微量元素配方施肥效果分析
- 郭彦兵,屈德洪,吴景芝,金少明,吴红芝

马朝忠,苏彬,庞正轰,苏付保,冯立新,买凯乐,李荣珍

加工·贮藏·质量安全

- 121

烟叶烘烤过程中水分变化及干燥数学模型构建
- 130

酯提除杂法高效提取分离芒果叶芒果苷
- 136

咪鲜胺添加助剂对淮山冷藏效果的影响
- 李生栋,付宗仁,胡蓉花,史文强,程小强,肖荣贵,凌平,贺帆

韦会平,郑毅,韩洪波,尚远宏

谢冬娣,岳君,李富芸,覃丽丹,韦燕佩

畜牧·兽医·水产·蚕桑

- 142

雷州黑鸭*FSHβ*基因多态性与产蛋性能的关联分析
- 148

少孢节丛孢菌胞外几丁质酶*AO-379*基因克隆及其表达分析
- 155

PRRSV诱导猪体内肺泡巨噬细胞炎症模型的建立
- 164

淡水石斑鱼与3种罗非鱼肌肉营养成分的分析比较
- 172

锦鲤厦门希瓦氏菌的分离鉴定及药敏试验
- 张少伟,崔红艳,苏瑛

钟文强,孟庆玲,乔军,陈英,贡莎莎,王熙凤,黄运福,才学鹏

罗文涓,杨剑,敖妙,刘妍璨,覃一峰,文露婷,黎江,韦英益,胡庭俊

王志芳,郭忠宝,罗永巨,周毅,肖俊,梁军能,钟欢

苗森,吕爱军,胡秀彩,韩卓然,王景桂,陈成勋,孙敬锋

农业信息技术·农业经济

- 178

可变要素成本、农户禀赋与农业技术选择——基于我国荔枝主产区微观数据的分析
- 185

基于文献计量的国内外设施蔬菜智慧化管理研究态势
- 194

知识图谱视角下我国农业政策研究的演化发展及热点分析
- 郑旭芸,庄丽娟

贵淑婷,任妮,程金花,曹静,陆学文

段园园,林树文,黄金泽,曾玉荣

Journal of Southern Agriculture

Vol.49 No.1, 2018

Contents

Crop genetics & breeding · germplasm resources · biotechnology

1	Optimization of SCoT-PCR reaction system and primer selection for <i>Pueraria</i> DC.	SHANG Xiao-hong, YAN Hua-bing, CAO Sheng, ZHANG Shang-wen, XIE Xiang-yu, WANG Yan, OU Kun-peng
8	Quality evaluation and genetic relation identification for different <i>Poria cocos</i> strains	WU Sheng-lian, TANG Shao-jun, JIN Lei, SHAO Chen-xia, YANG Yi, HE Yue-lin
14	CRISPR/Cas9 system and its application in crop breeding	HUANG Juan, DENG Guo-fu, GAO Li-jun, GAO Ju, QING Dong-jin, ZHU Chang-lan

Physiology & biochemistry · soil & fertilizer · agroecology environmet

22	Response characteristics of soil microbes on maize straw amendment—A typical comparison between subtropical limestone soil and red soil	HUANG Fen, WEI Hong-qun, CAO Jian-hua
30	Effects of L- β -phenyllactic acid on growth and physiological characteristics of wheat seedlings	SHI Xian-hong, YE Li, LIU La-mei, ZHU Yi-bo, ZHU Dong-xing, WANG Li-mei
36	Soil physical and chemical properties and yield of Guangxi winter potato under different cultivation models	LI Li-shu, FAN Wu-jing, YANG Xin, TANG Zhou-ping, TAN Guan-ning, HE Hu-yi
42	Analysis and evaluation for varietal characteristics and high yield stability of sugarcane variety Guitang 42	DENG Yu-chi, WANG Lun-wang, WANG Ze-ping, HUANG Hai-rong, XIAN Wu
48	Effects of gibberellin (GA) mixed with potash foliage fertilizer on growth, yield and quality of tobacco upper leaves	BU Ling-duo, JI Si-gui, LI Jiang-zhou, ZHANG Li-meng, WANG Shao-zhong, NA Hong-yan
56	Effects of halophyte and straw mulching on soil nutrients and desalting in extreme saline soil of mud flat areas	ZHANG Jiao, CUI Shi-you

Plant protection · agrometeorology

62	Susceptibility of <i>Cnaphalocrocis medinalis</i> (Güenée) in Fujian to six insecticides	QIU Liang-miao, LIU Qi-quan, LU Xue-song, ZHAN Zhi-xiong
68	Screening plate media for sporulation of thin-walled conidia of <i>Ustilago virens</i> (Cooke) Takahashi	PU Xiang-jun, WANG Zhong-wen, YANG Ping, ZHANG Li-li, ZHANG Jun-cheng
74	Isolation and identification for pathogen of anthracnose in <i>Aquilaria sinensis</i> (Lour.) Gilg.	LIAO Wang-jiao, ZOU Dong-xia, HUANG Hua-yan, LUO Ji, ZHAO Cheng-jie, WU Yao-jun
79	Effects of altitude on rhizosphere microbial flora and soft rot in <i>Amorophophallus konjac</i>	XU Jia-xin, LIU Fang, WU San-lin, GONG Ming-fu, ZHANG Ya, LUO Yan-mei
85	Identification on antibacterial activity and antioxidant activity of nine Apocynaceae and Euphorbiaceae plants	ZHANG Wei-hao, WENG Dao-yue, SONG Hui-yun, CUI Ze-hua, SUN Jian, WU Yu-ting, SHAN Ti-jiang

Horticulture · landscape architecture · forestry

91	Effects of selenium on physiological characteristics of wine grape seedling under copper stress	ZHU Juan-juan, MA Hai-jun
98	Biological characteristics of degenerated strains of <i>Pleurotus pulmonarius</i> and detection of dsRNA virus	KE Bin-rong, LU Zheng-hui, WU Xiao-ping, CHEN Fa-chuan, LAN Qing-xiu
104	Effects of super absorbent polymer on physiological characteristics of <i>Areca catechu</i> L. under drought stress	LI Jia, LIU Li-yun, LI Yan, ZHOU Huan-qi
109	Effects of ALA foliage spray on bulbs and potted flowers quality of colored <i>Zantedeschia</i>	GUO Yan-bing, QU De-hong, WU Jing-zhi, JIN Shao-ming, WU Hong-zhi

116

Effects of nitrogen,phosphorus and potassium fertilizers adding microelements formula fertilization on growth of young *Betula alnoides* Buch.-Ham. ex D. Don plantations

MA Chao-zhong, SU Bin, PANG Zheng-hong, SU Fu-bao, FENG Li-xin, MAI Kai-le, LI Rong-zhen

Processing · storage · quality safety

121

Moisture change of tobacco leaves during curing and establishment of drying mathematical model

LI Sheng-dong, FU Zong-ren, HU Rong-hua, SHI Wen-qiang, CHENG Xiao-qiang, XIAO Rong-gui, LING Ping, HE Fan

130

Extraction and isolation of mangiferin from mango leaves by ethylacetate impurity-removing

WEI Hui-ping, ZHENG Yi, HAN Hong-bo, SHANG Yuan-hong

136

Effects of prochloraz with additives on yam refrigeration

XIE Dong-di, YUE Jun, LI Fu-yun, QIN Li-dan, WEI Yan-pei

Animal science · veterinary science · aquiculture · sericulture

142

FSHβ gene polymorphism and correlation between it and egg production performance in Leizhou black duck

ZHANG Shao-wei, CUI Hong-yan, SU Ying

148

Cloning of extracellular chitinase gene *AO-379* in *Arthrobotrys oligospora* and its expression

ZHONG Wen-qiang, MENG Qing-ling, QIAO Jun, CHEN Ying, GONG Sha-sha, WANG Xi-feng, HUANG Yun-fu, CAI Xue-peng

155

Establishment of inflammatory model of porcine alveolar macrophages induced by PRRSV

LUO Wen-juan, YANG Jian, AO Miao, LIU Yan-can, QIN Yi-feng, WEN Lu -ting, LI Jiang, WEI Ying-yi, HU Ting-jun

164

Nutrient compositions in muscle of *Cichlasoma managuense* and three tilapia species

WANG Zhi-fang, GUO Zhong-bao, LUO Yong-ju, ZHOU Yi, XIAO Jun, LIANG Jun-neng, ZHONG Huan

172

Isolation , identification and antibiotic susceptibility analysis of *Shewanella xiamenensis* from *Cyprinus carpio* var. *Koi*

MIAO Miao, LYU Ai-jun, HU Xiu-cai, HAN Zhuo-ran, WANG Jing-gui, CHEN Cheng-xun, SUN Jing-feng

Agricultural information technology · agriculture economics

178

Variable factors costs , farmers endowment and agricultural technique choice—Analysis based on micro-data from main Chinese lychee production region

ZHENG Xu-yun, ZHUANG Li-juan

185

Research status of facility vegetable wisdom management in China and abroad based on bibliometric analysis

GUI Shu-ting, REN Ni, CHENG Jin-hua, CAO Jing, LU Xue-wen

194

Evolution and hotspots of agricultural policy research in China from the perspective of knowledge map

DUAN Yuan-yuan, LIN Shu-wen, HUANG Jin-ze, ZENG Yu-rong