

目 录

作物遗传育种·生物技术

- 1 采用分生组织培养生产脱甘蔗黄叶病毒苗(英文)
- 6 乙烯利调控甘蔗基因差异表达研究
- 11 桑树二倍体及其人工诱导同源四倍体遗传差异的 RAPD 分析

Mishra S, Rao G P  
魏源文, 邓智年, 黄诚梅, 李杨瑞  
林 强, 邱长玉, 朱方容, 赵卫国,  
陈小青, 方荣俊, 朱光书, 李 乙,  
曾燕蓉

耕作栽培·生理生化

- 16 优质籼稻花后干物质积累与流转及籽粒灌浆特征(英文)
- 22 高产栽培模式中能源甘蔗的光合能力和叶面积指数比较分析
- 26 不同施氮方式对甘蔗生理生化性状的影响
- 30 适合木薯间套作的花生品种筛选试验初报
- 33 一级优质米杂交稻新组合百优 838 的选育及应用

胡钧铭, 江立庚, 徐世宏, 梁 和,  
董登峰  
黄家雍, 唐仕云, 李 翔, 王伦旺,  
方锋学, 许树宁, 黄海荣, 谭 芳,  
黎焕光  
蓝立斌, 陈超君, 米 超, 罗 艺,  
梁 和, 王爱华, 韦玉奇  
揭红科, 蒋 菁, 唐秀梅, 钟瑞春,  
王泽平, 刘 超, 唐荣华  
陈彩虹, 粟学俊, 梁曼玲, 阎 勇,  
蔡 涛

植物保护

- 37 2010/2011 榨季广西甘蔗生产冻害调查及防御对策
- 43 225 份水稻新品系对穗瘟的田间抗性初步评价
- 46 广西白背飞虱生物型测定
- 50 广西春大豆品种抗旱性评价及抗旱鉴定指标初步研究
- 54 琼中绿橙炭疽病原菌基础生物学特性研究

李杨瑞, 方锋学, 吴建明, 李 翔,  
张荣华, 刘昔辉, 何 红, 杨荣仲,  
杨丽涛, 陈赶林, 苏树权, 谢金兰,  
刘晓燕, 黄伟华, 段维兴, 何为中,  
汪 森  
张月雄, 刘亚利, 李道远, 黄大辉,  
刘 驰, 马增凤, 李容柏  
黄所生, 黄凤宽, 吴碧球, 张雪丽,  
农春莲, 凌 炎, 龙丽萍  
汤复跃, 梁 江, 陈 渊, 曾维英,  
韦清源  
郑肖兰, 吴伟怀, 李 锐, 刘笔灿,  
贺春萍

土壤肥料·农业生态环境

- 58 幼龄胶园间种土壤肥力及土壤酶活性特征研究
- 65 广西百色烟区土壤含氮状况及烟叶氮素特征研究
- 69 人工湿地废水处理技术的研究现状及展望

吴志祥, 谢贵水, 杨 川, 周兆德,  
陈俊明, 赖华英  
林北森, 高华军, 黄 瑾, 曹利军,  
刘春萍  
李 娟, 张龙庄, 段 亮, 牛涛涛

园艺·贮藏·保鲜·加工

- 74 响应曲面法优化苦杏仁皮总黄酮的微波提取工艺研究
- 79 密蔽东魁杨梅园夏季修剪的坐果效应

文连君,张清安,张志琪  
黄志琼,李顺辉,卫双荣,刘助生,  
全洪友,杨艺玲,莫荣富

畜牧·兽医·水产·蚕桑

- 82 老挝本地山羊及其第一代杂交山羊的生长函数测定(英文)
- 86 凡纳滨对虾肌肉组织 cDNA 全长文库的构建
- 90 促性腺激素释放激素在不同品种水牛卵巢中的免疫组化定位
- 94 臭氧—紫外线组合系统净化靛巴非蛤(*Paphia schnellian*)微生物的研究
- 98 仔猪抗 E2 抗体水平的调查研究
- 102 4 个品种猪血清中 sLAIR-1 表达量的 ELISA 检测
- 105 一种检测乳过氧化物酶方法的建立

Nguyen Xuan Trach, Buonmy Phiovankham  
熊建华,高永华,马宁,盛小伟,  
陈晓汉  
秦津,李瑞明,凌泽继,谢莹雪,  
宋小白,杨柄壮,许典新  
潘志忠,何为,吴卫君,丁兆坤,  
李咏梅,蒋伟明  
吴其彪,田娟娟,谭春萍,黄百花,  
刘文娟,陆芹章  
潘斌,杨辉,郭亚芬,范晶,  
兰干球,蒋钦杨,朱祁明,王爱德  
惠永华,王路,牛金涛

综述·专论

- 109 基于物元模型的森林资源质量评价研究
- 114 文莱水稻生产现状及发展思路
- 117 农村合作经济组织发展过程中的环境障碍分析

武高洁,赵天忠  
周国列  
郭怀亮,魏鑫

## CONTENTS

**Crop genetic & breeding · biotechnology**

- 1 Regeneration of *Sugarcane yellow leaf virus* free sugarcane plantlets through meristem culture Mishra S, Rao G P
- 6 Ethephon regulated differential gene expression in sugarcane WEI Yuan-wen, DENG Zhi-nian, HUANG Cheng-mei, LI Yang-rui
- 11 Assessment of RAPD polymorphism amongst mulberry diploids and their homologous tetraploids LIN Qiang, QIU Chang-yu, ZHU Fang-rong, ZHAO Wei-guo, CHEN Xiao-qing, FANG Rong-jun, ZHU Guang-shu, LI Yi, ZENG Yan-rong

**Tillage & cultivation · physiology & biochemistry**

- 16 Post-anthesis accumulation and remobilization of dry matter and grain growth characteristics in high quality *indica* rice HU Jun-ming, JIANG Li-geng, XU Shi-hong, LIANG He, DONG Deng-feng
- 22 Comparative analysis of energy sugarcane varieties for photosynthetic capacity and leaf area index in high yield cultivation model HUANG Jia-yong, TANG Shi-yun, LI Xiang, WANG Lun-wang, FANG Feng-xue, XU Shu-ming, HUANG Hai-rong, TAN Fang, LI Huan-guang
- 26 Effect of different application methods of nitrogen fertilizer on some physio-biochemical parameters of sugarcane LAN Li-bin, CHEN Chao-jun, MI Chao, LUO Yi, LIANG He, WANG Ai-hua, WEI Yu-qi
- 30 Preliminary report on screening of peanut varieties suitable for intercropping with cassava JIE Hong-ke, JIANG Jing, TANG Xiu-mei, ZHONG Rui-chun, WANG Ze-ping, LIU Chao, TANG Rong-hua
- 33 Breeding and application of the first class quality hybrid rice variety Baiyou 838 CHEN Cai-hong, SU Xue-jun, LIANG Man-ling, YAN Yong, CAI Tao

**Plant protection**

- 37 Survey of frost and cold damage on sugarcane production in Guangxi in 2010/2011 milling season and countermeasures LI Yang-rui, FANG Feng-xue, WU Jian-ming, LI Xiang, ZHANG Rong-hua, LIU Xi-hui, HE Hong, YANG Rong-zhong, YANG Li-tao, CHEN Gan-lin, SU Shu-quan, XIE Jin-lan, LIU Xiao-yan, HUANG Wei-hua, DUAN Wei-xing, HE Wei-zhong, WANG Miao
- 43 Preliminary evaluation of 225 new rice lines for panicle blast resistance under natural field conditions ZHANG Yue-xiong, LIU Ya-li, LI Dao-yuan, HUANG Da-hui, LIU Chi, MA Zeng-feng, LI Rong-bai
- 46 Identification of white-backed plant hopper biotype in Guangxi HUANG Suo-sheng, HUANG Feng-kuan, WU Bi-qiu, ZHANG Xue-li, NONG Chun-lian, LING Yan, LONG Li-ping
- 50 Identification of drought tolerance indices and evaluation of spring soybean varieties (lines) in Guangxi TANG Fu-yue, LIANG Jiang, CHEN Yuan, ZENG Wei-ying, WEI Qing-yuan
- 54 The biological characteristics of pathogens causing anthracnose disease of Qiongzong green orange ZHENG Xiao-lan, WU Wei-huai, LI Rui, LIU Bi-can, HE Chun-ping

**Soil & fertilizer · agroecology environment**

- 58 Soil fertility characteristics and activity of some soil enzymes in young rubber plantations soils inter-planted with banana and pueraria WU Zhi-xiang, XIE Gui-shui, YANG Chuan, ZHOU Zhao-de, CHEN Jun-ming, LAI Hua-ying
- 65 Monitoring the chlorine contents in tobacco leaves and tobacco-planting soils of Baise City, Guangxi LIN Bei-sen, GAO Hua-jun, HUANG Jin, CAO Li-jun, LIU Chun-ping
- 69 Research advances and prospects of wastewater treatment technology using constructed wetlands LI Juan, ZHANG Long-zhuang, DUAN Liang, NIU Tao-tao

**Horticulture · storage · fresh-keeping · processing**

- 74 Effects of processing conditions on microwave extraction of total flavonoids from bitter almond skin and optimization of response surface methodology  
WEN Lian-jun, ZHANG Qing-an, ZHANG Zhi-qi
- 79 Effects of summer pruning on fruit setting of dense Dongkui *Myrica rubra*  
HUANG Zhi-qiong, LI Shun-hui, WEI Shuang-rong, LIU Zhu-sheng, QUAN Hong-you, YANG Yi-ling, MO Rong-fu

**Animal science · veterinary science · aquiculture · sericulture**

- 82 Determination of growth functions of indigenous and crossbred goats in Laos  
Nguyen Xuan Trach, Buonmy Phiovankham
- 86 Construction of the full length cDNA library from muscular tissue of *Litopenaeus vannamei*  
XIONG Jian-hua, GAO Yong-hua, MA Ning, SHENG Xiao-wei, CHEN Xiao-han
- 90 Immuno-histochemical localization of gonadotropin-releasing hormone in ovaries of different buffalo varieties  
QIN Jin, LI Rui-ming, LING Ze-ji, XIE Ying-xue, SONG Xiao-bai, YANG Bing-zhuang, XU Dian-xin
- 94 Using ozone-ultraviolet combination system to purify *Paphia schnellian* for killing microorganisms  
PAN Zhi-zhong, HE Wei, WU Wei-jun, DING Zhao-kun, LI Yong-mei, JIANG Wei-ming
- 98 Monitoring of classical swine fever virus E2 protein antibody levels in weaned piglets  
WU Qi-biao, TIAN Juan-juan, TAN Chun-ping, HUANG Bai-hua, LIU Wen-juan, LU Qin-zhang
- 102 ELISA detection of sLAIR-1 expression in the serum of four swine species  
PAN Bin, YANG Hui, GUO Ya-fen, FAN Jing, LAN Gan-qiu, JIANG Qin-yang, ZHU Qi-ming, WANG Ai-de
- 105 Development of a method to detect lactoperoxidase(LP) activity in milk  
HUI Yong-hua, WANG Lu, NIU Jin-tao

**Reviews · monographs**

- 109 Evaluation of forest resource quality based on matter-element model  
WU Gao-jie, ZHAO Tian-zhong
- 114 Current status of rice production in Brunei and strategies to improve its development  
ZHOU Guo-lie
- 117 Analysis of socio-economic and environmental barriers for the development of rural economic cooperative organization  
GUO Huai-liang, WEI Xin