

主管 中国科学技术协会
主办 中国热带作物学会
承办 中国热带农业科学院
编辑 《热带作物学报》编辑部
主编 王庆煌
副主编 邱小强 郭安平 彭明 方佳
策划 李永龙
网址 www.rdnjournals.cn
电子信箱 rdzx136@163.com
联系电话 0898-23300486
出版 中国热带农业科学院科技信息研究所
(571737 海南省儋州市宝岛新村)

CHINESE JOURNAL OF TROPICAL CROPS
(Monthly, Founded in 1980)

May.2010, Vol.31, No.5

Affiliate with China Association for Science
and Technology
Sponsored by China Society of Tropical Crops
Co-sponsored by Chinese Academy of Tropical
Agricultural Sciences
Edited by Editorial Board of Chinese Journal of
Tropical Crops

Editor-in-chief Wang Qinghuang
Vice editor-in-chief Qiu Xiaoqiang, Guo Anping,
Peng Ming, Fang Jia
Planning Editor Li Yonglong
Website www.rdnjournals.cn
E-mail rdzx136@163.com
Tel 0898-23300486

Published by Institute of Scientific and Technical
Information, CATAS (Baodao Xincun, Danzhou,
Hainan 571737)

Distributed at home by Hainan Newspapers &
periodicals Subscription and Disctribution Bureau

Distributed Abroad by China International
Book Trading Corporation

Printed by Hainan Jinyongan Printing Co.,Ltd.
Issue price oversea US\$ 50.00/issue

发行范围 国内外公开发行
国内发行 海南省报刊发行局
海外总发行 中国国际图书贸易总公司
出版日期 每月 25 日
印刷 海南金永安印刷有限公司
广告经营许可证号 460000200104
ISSN 1000-2561
国内统一刊号 CN 46-1019/S
邮发代号 84-29
海外发行代号 BM 8915
国内定价 20.00 元

热带作物学报

2010 年 5 月 第 31 卷 第 5 期 (月刊 1980 年创刊)

目次

作物营养、栽培与遗传育种

香蕉茎叶堆制还田对土壤各形态钾的影响……文少白, 张桂花, 李勤奋, 等 (689)
木薯栽培品种农艺性状与分子标记的关联分析……何静, 王文泉, 郑永清, 等 (693)
土壤水分对菠萝地上部和地下部生长的影响……习金根, 吴浩, 王一承, 等 (701)
施用堆肥对生菜品质和土壤生物活性及

土壤肥力的影响……黄继川, 彭智平, 李文英, 等 (705)
晒对不同类型杂交水稻品种发芽特性的影响……吴露露, 杨安富, 耿建梅, 等 (711)
滴灌下不同质地土壤中镁的移动与分布……陈海均, 邓兰生, 涂攀峰, 等 (719)
茄子新品种——“庆丰紫红茄”的选育……李植良, 黎振兴, 孙保娟, 等 (724)
植物生理生化

芒果光合特性的研究……陈华蕊, 陈业渊, 高爱平, 等 (729)
3个荔枝品种胚胎发育过程的比较……冯蔚, 张蕾, 李松刚, 等 (736)
荔枝花性别分化过程的荧光显微观察……王平, 郑伟, 陈伟 (740)
哈姆林甜橙蔗糖合酶I和酸性转化酶基因表达与

果实糖积累的关系……王腾旭, 李正国, 杨迎伍, 等 (745)
铜胁迫下7个高羊茅品种耐性和

铜积累能力的比较……张远兵, 刘爱荣, 王兵, 等 (750)
生物技术应用及组织培养

巴西橡胶树磷转运蛋白基因的克隆及生物信息学分析……汤银辉, 何鹏 (758)
香蕉束顶病毒海口分离物CP基因的

原核表达、纯化及其抗血清制备……余乃通, 冯团诚, 王健华, 等 (767)
16S rDNA序列分析法对香蕉根部

内生细菌种群多样性初析……潘美心, 刘先宝, 时涛, 等 (772)
香蕉MuMA D52基因表达产物的亚细胞定位……刘琳, 杨晓颖, 金志强, 等 (777)
4个水稻线粒体丙酮酸激酶基因(mtOsPKs)

表达分析……吴金山, 张艳, 朱传凤, 等 (782)
甘露糖筛选系统的建立及在甘蔗转基因中的应用……高世武, 阙友雄, 郭晋隆, 等 (789)
广东地区野生狗牙根遗传多样性的ISSR分析……周少云, 黄春琼, 刘国道 (797)

红海榄脱水素基因(RsDHN1)的克隆及表达分析……马宏伟, 徐远峰, 翟金玲, 等 (804)
作物病虫害及其防治、环境保护

温度对刺楸珠蜡蚧实验种群的影响……陈伟, 符悦冠, 彭正强 (809)
芒果畸形病与DON和ZEN的关系初析……杨顺锦, 詹儒林, 柳凤, 等 (815)
木薯害虫普查及其安全性评估……陈青, 卢芙蓉, 黄贵修, 等 (819)

海南蔗区甘蔗黑穗病菌的分离鉴定……杨志才, 熊国如, 陈雪婷, 等 (828)
胡椒科3种植物内生真菌的鉴定及多样性分析……王赞, 李增平, 林珊, 等 (834)

入侵害虫螺旋粉虱的田间种群动态及其
对本地节肢动物群落的影响……陈丽云, 朱麟, 肖彤斌, 等 (840)

对甲基丁香酚无趋性的橘小实蝇遗传性别品系
雄虫的筛选……郭庆亮, 杨春花, 陈家骅, 等 (845)

35个水稻品种抗稻曲病的田间抗性评价……姜慎, 唐春生, 谭志琼 (849)
杂交竹枯萎病情调查与病原鉴定……蔡吉苗, 梁祖昂, 刘先宝, 等 (852)

农产品加工、贮藏、保鲜与分析检测
脱脂椰肉中多酚化合物抗氧化性的研究……郑亚军, 李艳, 林道旭, 等 (859)

台湾青枣多糖抗氧化活性的研究……陈莲, 林河通, 郭巧玲, 等 (863)
生态学

假臭草浸提液对玉米根系活力的影响……林希昊, 陈秀龙, 杨礼富, 等 (867)

责任编辑 郑定华 赵军明 英文审校 张运雄 排版 刘宁
封面说明 冬春交替时期的橡胶园(摄影:陈开魁)

CONTENTS

Crop Nutrition, Culture and Genetic Breeding

- The Effects of Banana Stalk-leaf Compost on Different Forms of Soil Potassium.....Wen Shaobai, Zhang Guihua, Li Qinfen, *et al* (692)
- Association Analysis between Agronomic Traits and Molecular Markers in *Cassava*.....He Jing, Wang Wenquan, Zheng Yongqing, *et al* (700)
- Effects of Soil Water Content on Plant and Root Growth in Pineapple.....Xi Jin'gen, Wu Hao, Wang Yicheng, *et al* (704)
- The Impact of Applying Compost on the Quality of Lettuce,

- Soil Biological Activity and Soil Fertility.....Huang Jichuan, Peng Zhiping, Li Wenying, *et al* (710)
- 0The Physiological Effects of Se on the Germinating of hybrid rice varieties.....Wu Lulu, Yang Anfu, Geng Jianmei, *et al* (718)
- Distribution of Exchangeable Magnesium in Different Soil Texture under

- Drip Fertigation.....Chen Haijun, Deng Lansheng, Tu Panfeng, *et al* (723)
- Breeding of a New Eggplant Variety 'Qingfeng'.....Li Zhiliang, Li Zhenxing, Sun Baojuan, *et al* (728)

Phytophysiology and Biochemistry

- Photosynthetic Characteristics of Mango (*Mangifera indica* Linn).....Chen Huarui, Chen Yeyuan, Gao Aiping, *et al* (735)
- Comparison on Embryonic Development Process of

- Three Cultivars of *Lüchi chinensis*.....Feng Wei, Zhang Lei, Li Songgang, *et al* (739)
- Fluorescence Microscopic Observation on Flower Sex Differentiation in Litchi.....Wang Ping, Zheng Wei, Chen Wei (744)

- Expression of Sucrose Synthase I and Acid Invertase Genes in Relation to

- Sugar Accumulation in Fruits of Hamlin Sweet Orange.....Wang Tengxu, Li Zhengguo, Yang Yingwu, *et al* (749)

- The Comparison of Copper Tolerance and Copper Accumulation Activity of

- Seven *Festuca arundinacea* Varieties under Copper Stress.....Zhang Yuanbing, Liu Airong, Wang bing, *et al* (757)

Applied Biotechnology and Tissue Culture

- Molecular Cloning and Bioinformatic Analysis of
a Gene Encoding aPhosphate Transporter from *Hevea Brasiliensis*.....Tang Yinhui, He Peng (766)

- Prokaryotic expression and Purification of CP gene of *Banana Bunchy Top Virus*

- HaiKou Isolate and Preparation of Antiserum Against its CP.....Yu Naitong, Feng Tuancheng, Wang Janhua, *et al* (771)

- A Diversity Research of Endophytic Bacteria Living in Banana Root with

- 16S rDNA Sequences Analysis.....Pan Xianxin, Liu Xianbao, Shi Tao, *et al* (776)

- Subcellular Localization of Expression Products of Banana *MuMADS2* Gene.....Liu Lin, Yang Xiaoying, Jin Zhiqiang, *et al* (781)

- Four Rice Mitochondrial Pyruvate Kinase Genes Expression(*mtOsPKs*) Analysis.....Wu Jinshan, Zhang Yan, Zhu Chuanfeng, *et al* (788)

- Establishment of a Novel Selection System by Mannose and

- Its Application in Sugarcane Transformation.....Gao Shiwu, Que Youxiong, Guo Jinglong, *et al* (795)

- Genetic Diversity Analysis of Wild Bermudagrass Accessions in

- Guangdong with ISSR Molecular Marker.....Zhou Shaoyun, Huang Chunqiong, Liu Guodao (803)

- Cloning and Characterization of Dehydrin Gene of *Rhizophora stylosa* (*RsDHN1*).....Ma Hongwei, Xu Yuanfeng, Zhai Jinling, *et al* (808)

Crop Pests, Diseases and Their Control, Environmental Protection

- Influence of Temperature on the Laboratory Population of *Parasaissetia nigra* Nietner.....Chen Wei, Fu Yueguan, Peng Zhengqiang (814)

- Relationship between Mango Malformation Disease and DON and ZEN.....Yang Shunjin, Zhan Rulin, Liu Feng, *et al* (818)

- General Survey and Safety Assessment of Cassava Pests.....Chen Qing, Lu Fuping, Huang Guixiu, *et al* (827)

- Isolation and identification of *Ustilago scitaminea* in Hainan Province.....Yang zhicai, Xiong guoru, Chen xueting, *et al* (833)

- Identification and Analysis of Genetic Diversity of Endophytic Fungi

- from Three Kinds of Piperaceae.....Wang Yun, Li Zengping, Lin shan, *et al* (839)

- Population Dynamics of an Alien Invasive Pest, *Aleurodicus disperses* and

- Its Impacts on Local Arthropod Communities.....Chen Liyun, Zhu Lin, Xiao Tongbin, *et al* (844)

- Choosing Male *Bactrocera dorsalis* (Hendel) without Taxis to Methyl Eugenol.....Guo Qingliang, Yang chunhua, Chen Jiahua, *et al* (848)

- Field Resistance Evaluation of 35 Rice Varieties against False Smut.....Jiang Shen, Tang Chunsheng, Tan Zhiqiong (851)

- Survey and Pathogen Identification of Wilt Disease on Hybrid Bamboo.....Cai Jimiao, Liang Zuang, Liu Xianbao, *et al* (858)

Agricultural Product Processing, Storage and Detection

- Antioxidation property of the Polyphenol from Defatted Coconut Meat.....Zheng Yajun, Li Yan, Lin Daoxu, *et al* (862)

- Antioxidant Activity of Polysaccharide from

- Indian jujube (*Ziziphus mauritiana* Lamk) Fruit.....Chen Lian, Lin Hetong, Guo Qiaoling, *et al* (866)

Agroecology

- Allelopathic Study on Aqueous Extract of *Praxelis clematidea* on

- Root Activity in Maize.....Lin Xihao, Chen Xiulong, Yang Lifu, *et al* (871)