

目 次

组学与生物技术

早花相关基因 *HbFT1* 和 *HbFT2* 转化橡胶树的研究

.....李 季, 王秋润, 郭力鑫, 杨鸿丽, 周权男, 吴日智, 华玉伟, 成 镜, 黄天带 (515)

澳洲坚果锌指蛋白基因 *MiZFP11* 响应干旱和高温胁迫的功能分析

.....杨祥燕, 蔡元保, 曾黎明, 杨为海, 林玉虹, 巫辅民, 赵 渊, 胡 玲 (524)

巴西橡胶树 *HbbHLH48* 基因克隆与亚细胞定位分析

.....范晓康, 樊松乐, 刘明洋, 郭冰冰, 杨 洪, 代龙军, 张 宇, 王立丰 (534)

文心兰软腐病菌 *Dickeya fangzhongdai* *Onc5 vfmE* 基因的克隆及表达分析

.....王文婷, 任 驰, 丁建华, 荆恩荣, 卢秋巍 (544)

莲雾调控开花基因 *SsSOC1* 的克隆及表达分析.....杨胤廷, 孙东宇, 蔡昕成, 胡志群, 吴国麟, 周碧燕 (553)

番茄 *OSCA* 家族成员的敲除突变体构建及抗旱性研究

.....王 菲, 王 焱, 杨伟光, 代世文, 熊 程, 邹学校, 裴真明, 裴宋雨, 远 方 (563)

按蚊嗅觉相关蛋白的鉴定及部分新鉴定蛋白的表达分析.....陈 宇, 胡 平 (573)

种质资源与遗传育种

76份蝴蝶兰种质资源表型性状遗传多样性分析及综合评价

.....丁 玲, 赵 莹, 冯可婧, 杨春梅, 阮继伟, 瞿素萍, 吴丽芳, 余蓉培 (585)

不同资源的莲子形态多样性及其变异分析

.....罗佳琳, 傅阳阳, 刘青青, 吴砚农, 张文丽, 郑福军, 杨 帆, 王 健, 田代科 (597)

超低温保存技术在热带作物种质资源保存中的应用与展望

.....王敏瑞, 荆永琳, 陈浪欣, 王小冰, 孟春阳, 黄碧兰, 徐 立, 李志英 (611)

木薯新品种桂薯 1505 的选育及栽培技术

.....梁振华, 陈会鲜, 李恒锐, 韦婉玲, 黄珍玲, 阮丽霞, 何 文, 兰 秀, 杨海霞 (629)

作物栽培与生理生化

复合施肥措施对土壤-橡胶树系统中锰含量及生胶性能的影响

.....孔意鹏, 王万新, 金东奇, 刘海林, 李建宏, 赵庆杰, 林清火 (638)

甘蔗及其近缘种质斑茅和割手密不同生长角度根系分布及宿根性分析

.....匡自有, 刀静梅, 杨绍林, 艾 静, 王禹童, 张仲富, 李如丹, 邓 军, 赵 勇 (648)

减施化肥条件下复合内生菌剂与黄腐酸钾配施对甘蔗生长的影响

.....刘 涵, 谢林艳, 狄义宁, 曹莉斯, 李富生, 刘鲁峰 (662)

不同配比育苗基质对樱桃番茄砧木幼苗生长及生理特性的影响.....冯鸿瑜, 王 静, 廖道龙, 尤志聪, 伍壮生 (675)

不同缓控释氮肥对甘薯生长、氮素吸收及利用的影响

.....许泽康, 石 琨, 欧阳宇珺, 吴建燕, 马洪波, 张小贝, 汪吉东 (688)

外源 ABA、CaCl₂、SA 对 NaCl 胁迫下油茶幼苗生长及生理的影响

.....刘艳菊, 徐玉芬, 于钊妍, 吴坤林, 曹秋林, 龚 涵, 贾效成 (695)

不同提取方法对番石榴叶有效成分、抗氧化及 α-糖苷酶抑制活性的影响

.....罗朝丹, 王秋菊, 李建强, 冯春梅, 任二芳, 黄燕婷, 宁 琳, 罗小杰 (705)

谷朊粉对菠萝果粉水分吸附特性的影响.....刘 飞, 王文凤, 刘洋洋, 邹 颖, 彭芍丹, 周 伟, 李积华 (716)

植物保护与生物安全

榴槿重要害虫——马来异裂木虱 [*Allocarsidara malayensis* (Crawford)] 在中国的发现及其潜在适生区预测

.....邱海燕, 王建贇, 赵 菁, 宋 凡, 何志新, 韩冬银, 符悦冠, 李 磊 (725)

高产 IAA 抗旱菌株 SZF7 的培养条件优化及功能基因挖掘

.....林 宏, 黄玉莲, 黄卫红, 李若雨, 薛喜枚, 张英娇, 张秋芳 (734)

蜜蜂采集澳洲坚果的行为及授粉效果研究

.....秦加敏, 陶玉波, 晏天皓, 岩 理, 张 芬, 邓尚靠, 展 江, 张洋逸, 赵必安, 梁 铨 (743)

盐胁迫对不同品种水稻根际土壤细菌多样性与结构的影响

.....周玉杰, 贺治洲, 胡 伟, 林秋云, 林越辉, 龙开意, 谢振宇 (754)

海南热带雨林国家公园不同海拔按树人工林土壤-微生物碳氮磷特征

.....张学丰, 余雪标, 余慧霖, 黄 海, 陈海辉, 张建龙, 陈佳欣, 韦建杰 (764)

CHINESE JOURNAL OF TROPICAL CROPS

Mar. 2025 Vol. 46 No. 3 (Monthly, established in 1980)

CONTENTS

Omics & Biotechnology

Overexpression of Early Flowering Related Genes *HbFT1* and *HbFT2* in Rubber Tree

LI Ji, WANG Qiurun, GUO Lixin, YANG Hongli, ZHOU Quannan, WU Rizhi, HUA Yuwei, CHENG Jing, HUANG Tiandai (515)

Functional Analysis of Zinc Finger Protein Gene *MiZFP11* from Macadamia in Response to Drought and High Temperature Stresses

..... YANG Xiangyan, CAI Yuanbao, ZENG Liming, YANG Weihai, LIN Yuhong, WU Fumin, ZHAO Yuan, HU Ling (524)

Cloning and Subcellular Localization Analysis of *HbbHLH48* Gene from *Hevea brasiliensis* Muell. Arg.

... FAN Xiaokang, FAN Songle, LIU Mingyang, GUO Bingbing, YANG Hong, DAI Longjun, ZHANG Yu, WANG Lifeng (534)

Cloning and Expression Analysis of *vfme* gene from Soft Rot Pathogen *Dickeya fangzhongdai* One5 of *Oncidium*

..... WANG Wenting, REN Chi, DING Jianhua, JING Enrong, LU Qiuwei (544)

Cloning and Expression Analysis of the Flowering Gene *SsSOCl* in Wax Apple

..... YANG Yinyan, SUN Dongyu, CAI Xincheng, HU Zhiqun, WU Guolin, ZHOU Biyan (553)

Establishment of Knockout Mutants for OSCA Family Members and Drought Tolerance Research in Tomato

..... WANG Fei, WANG Yan, YANG Weiguang, DAI Shiwen, XIONG Cheng, ZOU Xuexiao,
PEI Zhenming, PEI Songyu, YUAN Fang (563)

Identification of Olfactory Related Proteins and Expression Analysis of Some Newly Identified Proteins in *Endoclitia vietnamensis*

..... CHEN Yu, HU Ping (573)

Germplasm Resources, Genetics & Breeding

Genetic Diversity Analysis and Comprehensive Evaluation of Phenotypes in 76 Germplasm Resources of *Phalaenopsis*

..... DING Ling, ZHAO Ying, FENG Kejing, YANG Chunmei, RUAN Jiwei, QU Suping, WU Lifang, YU Rongpei (585)

Morphological Diversity and Variation Analysis of Lotus Fruits from Different Sources

..... LUO Jialin, FU Yangyang, LIU Qingqing, WU Yannong, ZHANG Wenli, ZHENG Fujun,
YANG Fan, WANG Jian, TIAN Daik (597)

Applications and Prospects of Cryogenic Technology in the Conservation of Tropical Crop Germplasm Resources

... WANG Minrui, JING Yonglin, CHEN Langxin, WANG Xiaobing, Meng Chunyang, HUANG Bilan, XU Li, LI Zhiying (611)

Breeding and Cultivation of a New Cassava Cultivar Gui 1505

..... LIANG Zhenhua, CHEN Huixian, LI Hengrui, WEI Wanling, HUANG Zhenling,
RUAN Lixia, HE Wen, LAN Xiu, YANG Haixia (629)

Plant Cultivation, Physiology & Biochemistry

Effects of Fertilization Measures on Manganese Content in Soil-Rubber Tree System and Rubber Properties

..... KONG Yipeng, WANG Wanxin, JIN Dongqi, LIU Hailin, LI Jianhong, ZHAO Qingjie, LIN Qinghuo (638)

CHINESE JOURNAL OF TROPICAL CROPS

Mar. 2025 Vol. 46 No. 3 (Monthly, established in 1980)

Analysis of Root Distribution at Different Growth Angles and Ratooning Characteristic in Sugarcane and Its Related Germplasms *Erianthus arundinaceus* and *Saccharum spontaneum*

..... KUANG Ziyou, DAO Jingmei, YANG Shaolin, AI Jing, WANG Yutong, ZHANG Zhongfu,
LI Rudan, DENG Jun, ZHAO Yong (648)

Effect of Combined Application of Compound Endophytic Agent and Potassium Fulvic Acid on Sugarcane Growth under Reduced Chemical Fertilizer Application

..... LIU Han, XIE Linyan, DI Yining, CAO Lisi, LI Fusheng, LIU Lufeng (662)

Effects of Different Ratios of Seedling Substrates on Growth and Physiological Characteristics of Cherry Tomato Rootstock Seedlings

..... FENG Hongyu, WANG Jing, LIAO Daolong, YOU Zhicong, WU Zhuangsheng (675)

Effects of Different Slow-releasing Nitrogen Fertilizers on Growth, Nitrogen Absorption and Nitrogen Use Efficiency of Sweet Potato

..... XU Zekang, SHI Kun, OUYANG Yujun, WU Jianyan, MA Hongbo, ZHANG Xiaobei, WANG Jidong (688)

Growth and Physiological Effects of Exogenous ABA, CaCl₂, SA under NaCl Stress on *Camellia oleifera* Seedlings

..... LIU Yanju, XU Yufen, YU Zhaoyan, WU Kunlin, CAO Qiulin, GONG Han, JIA Xiaocheng (695)

Effects of Extraction Methods on Effective Constituents, Antioxidant Activities, α -glycosidase Inhibition of Guava Leaves

..... LUO Chaodan, WANG Qiuju, LI Jianqiang, FENG Chunmei, REN Erfang, HUANG Yanting, NING Lin, LUO Xiaojie (705)

Effects of Wheat Gluten on Moisture Sorption Isotherms Properties of Pineapple Powder

..... LIU Fei, WANG Wenfeng, LIU Yangyang, ZOU Ying, PENG Shaodan, ZHOU Wei, LI Jihua (716)

Plant Protection & Bio-safety

First Report of *Allocarsidara malayensis* (Crawford) in China, an Important Durian Pest and Prediction of Potential Suitable Habitats

..... QIU Haiyan, WANG Jianyun, ZHAO Jing, SONG Fan, HE Zhixin, HAN Dongyin, FU Yueguan, LI Lei (725)

Optimization of Culture Conditions and Functional Gene Mining of High-yielding IAA Drought-resistant Strain SZF7

..... LIN Hong, HUANG Yulian, HUANG Weihong, LI Ruoyu, XUE Ximei, ZHANG Yingjiao, ZHANG Qiufang (734)

Flower-visiting Behavior and Pollination of *Macadamia integrifolia* by Honey Bee

..... QIN Jiamin, TAO Yubo, YAN Tianhao, YAN Li, ZHANG Fen, DENG Shangkao, ZHAN Jiang,
ZHANG Yangyi, ZHAO Bi'an, LIANG Cheng (743)

Effects of Salt Stress on Bacteria Diversity and Structure of Rhizosphere Soil in Different Rice Varieties

..... ZHOU Yujie, HE Zhizhou, HU Wei, LIN Qiuyun, LIN Yuehui, LONG Kaiyi, XIE Zhenyu (754)

Characteristics of Soil-Microbial Carbon, Nitrogen and Phosphorus in *Eucalyptus* Plantations at Different Altitudes in National Park of Hainan Tropical Rainforest.

..... ZHANG Xuefeng, YU Xuebiao, YU Huilin, HUANG Hai, CHEN Haihui, ZHANG Jianlong, CHEN Jiaxin, WEI Jianxing (764)