



2014
中国精品科技期刊
OUTSTANDING S&T JOURNALS OF CHINA

ISSN 1009-9980
CN41-1308/S

果 树 学 报

GUOSHU XUEBAO

JOURNAL OF FRUIT SCIENCE

第32卷 第3期

Vol.32 No.3

2015



ISSN 1009-9980



05>

9 771009 998088

中国农业科学院郑州果树研究所 主办

果 树 学 报

JOURNAL OF FRUIT SCIENCE

(双月刊 Bimonthly)

2015年 第32卷 第3期

目 次

种质资源·遗传育种·分子生物学

- 柑橘冷诱导基因及其启动子表达载体构建与瞬时表达分析 周 潞, 姜 航, 屈汉金, 邓子牛, A. Gentile, 龙桂友 (353)
‘苹果梨’果实着色过程中 *PyCHI* 和 *PyF3H* 的克隆与表达分析 杨宏霞, 刘冰雁, 刘振坤, 鹿艳新, 王 雪, 曲柏宏, 申永杰 (359)
我国新育成葡萄品种 SSR 指纹图谱的建立 尹 玲, 张 晨, 向 江, 张雅丽, 安云鹤, 徐海英, 赵胜建, 郭修武, 卢 江 (366)
利用 ISSR 分子标记构建南疆杏种质资源核心种质 刘 娟, 廖 康, 曼苏尔·那斯尔, 曹 倩, 江振斌, 贾 杨 (374)
基于形态性状的仁用杏种质资源分类研究 章秋平, 刘威生, 刘 宁, 张玉萍, 徐 铭, 刘 硕 (385)
基于花粉微观特征的新疆欧洲李亲缘关系分析 孙 琦, 廖 康, 耿文娟, 周宏伟, 樊丁宇, 刘 欢, 曹 倩 (393)
基于 RNA-seq 的黄肉猕猴桃类胡萝卜素合成相关基因的表达分析 张晓慧, 黄春辉, 钟 敏, 陈楚佳, 郎彬彬, 曲雪艳, 徐小彪 (404)
‘红阳’猕猴桃全基因组 NBS-LRR 类基因家族的生物信息学分析 文 欢, 刘永立 (413)
龙眼种质资源果实糖组分及含量特征分析 陈秀萍, 邓朝军, 胡文舜, 蒋际谋, 姜 帆, 许奇志, 郑少泉 (420)
荔枝多酚氧化酶基因启动子克隆与功能分析 王树军, 刘保华, 孙进华, 肖 茜, 李焕苓, 王家保 (427)
RNAi沉默 *Fa4CL* 基因对草莓果实花色苷代谢的影响 张 蕉, 林 晓, 罗 赞, 汪佳易, 徐 川, 王红清 (434)

栽培·生理·生态

- 4个无核鲜食葡萄品种及其亲本果实香气成分分析 谭伟, 唐晓萍, 董志刚, 李晓梅 (440)
枣果实维管束解剖结构研究 边媛, 狄龙, 李定红, 李新岗 (448)
新疆红枣优生区研究 周丽, 杨伟志, 王长柱, 李新岗 (453)
杨梅叶中总黄酮提取及其抗氧化能力研究
..... 卢赛赛, 许凤, 王鸿飞, 程佑声, 胡月, 邵兴锋, 李和生 (460)

植物保护·果品质量与安全

- 乙酸叶醇酯对梨小食心虫性信息素的增效作用 于海利, 张青文, 徐环李 (469)
环境因子对杨梅凋萎病菌分生孢子萌发及侵染的影响 任海英, 戚行江, 梁森苗, 郑锡良, 张振兰 (474)
杧果蒂腐可可球二孢菌致病力测定及杧果主要品种抗病性评价 陈小莉, 王萌, 杨叶, 李雨龙 (481)

贮藏·加工

- ‘锦绣’桃果实 25℃贮藏的硬度与色泽变化及相关性分析
..... 苏明申, 叶正文, 周慧娟, 杜纪红, 李宏义, 李雄伟, 葛志刚, 姚琛杰 (487)
1-MCP 对 CO₂ 处理 ‘磨盘柿’ 果实活性氧含量及清除酶活性的影响
..... 李莹, 程青, 李冉, 何水仙, 李宝 (494)

专论与综述

- 果树 microRNA 研究进展 李贺, 毛健鑫, 董向向, 张志宏, 纪明山 (502)

新品种选育报告

- 早熟砂梨新品种——‘金蜜’的选育 陈启亮, 胡红菊, 田瑞, 杨晓平, 张靖国, 范净 (511)
优质李新品种——‘国美’的选育
..... 徐铭, 刘威生, 孙猛, 刘宁, 张玉萍, 章秋平, 刘硕, 高涵 (514)
优质抗炭疽病草莓新品种——‘申阳’的选育 高清华, 叶正文, 段可, 郑宏清, 张丽勍 (517)

JOURNAL OF FRUIT SCIENCE

(Bimonthly)

Vol. 32 No. 3 2015

CONTENTS

Germplasm resources·Genetics & Breeding·Biotechnology

- Construction of plant vectors with promoter and cold-induced genes in citrus and transient expression verification ZHOU Xiao, JIANG Hang, QU Hanjin, DENG Ziniu, A. Gentile, LONG Guiyou (353)
Molecular cloning and expression of *PyCHI* and *PyF3H* in ‘Pingguoli’ during the pigmentation YANG Hongxia, LIU Bingyan, LIU Zhenkun, LU Yanxin, WANG Xue, QU Baihong, SHEN Yongjie (359)
The SSR fingerprinting of grapevine cultivars newly-developed in China YIN Ling, ZHANG Chen, XIANG Jiang, ZHANG Yali, AN Yunhe, XU Haiying, ZHAO Shengjian, GUO Xiuwu, LU Jiang (366)
Core-germplasm construction of apricot collections in South of Xinjiang by ISSR molecular markers LIU Juan, LIAO Kang, MANSUR Nasir, CAO Qian, JIANG Zhenbin, JIA Yang (374)
Classification of kernel-using germplasm based on morphology in apricot ZHANG Qiuping, LIU Weisheng, LIU Ning, ZHANG Yuping, XU Ming, LIU Shuo (385)
Phylogenetic relationship analysis of European plum in Xinjiang based on pollen microscopic characteristics SUN Qi, LIAO Kang, GENG Wenjuan, ZHOU Hongwei, FAN Dingyu, LIU Huan, CAO Qian (393)
Analysis of expression of the related genes with carotenoids synthesis in yellow flesh kiwifruit (*Actinidia chinensis*) based on RNA-seq ZHANG Xiaohui, HUAGN Chunhui, ZHONG Min, CHEN Chujia, LANG Binbin, QU Xueyan, XU Xiaobiao (404)
Bioinformatic analysis of the NBS-LRR gene family in kiwifruit ‘Hongyang’ WEN Huan, LIU Yongli (413)
Characteristics of soluble sugars in longan germplasm CHEN Xiuping, DENG Chaojun, HU Wenshun, JIANG Jimou, JIANG Fan, XU Qizhi, ZHENG Shaoquan (420)
Cloning and primary function analysis of the promoter of *PPO* gene from litchi (*Litchi chinensis* Sonn.) WANG Shujun, LIU Baohua, SUN Jinhua, XIAO Qian, LI Huanling, WANG Jiabao (427)
Influences of RNAi-induced *Fa4CL* silencing on anthocyanin metabolism in strawberry fruit ZHANG Lei, LIN Xiao, LUO Yun, WANG Jiayi, XU Chuan, WANG Hongqing (434)

Cultivation·Physiology·Ecology

- Analysis on fruit aromatic compounds of four seedless grape and their parents TAN Wei, TANG Xiaoping, DONG Zhigang, LI Xiaomei (440)
Vascular anatomy of Chinese jujube fruit BIAN Yuan, DI Long, LI Dinghong, LI Xingang (448)
Superior production region of Chinese jujube in Xinjiang ZHOU Li, YANG Weizhi, WANG Changzhu, LI Xingan (453)
Extraction and antioxidant activities of total flavonoids from *Myrica rubra* leaves

..... LU Saisai, XU Feng, WANG Hongfei, CHENG Yousheng, HU Yue, SHAO Xingfeng, LI Hesheng (460)

Plant protection·Fruit quality & Safety

- (Z)-3-hexenyl acetate synergizes the response of oriental fruit moth, *Grapholita molesta* (Busck) (Lepidoptera: Tortricidae) to female sex pheromone YU Haili, ZHANG Qingwen, XU Huan (469)
- Effects of environmental factors on conidial germination and infection of *Pestalotiopsis* spp. causing twig blight disease of bayberry (*Myrica rubra*) in China REN Haiying, QI Xingjiang, LIANG Senmiao, ZHENG Xiliang, ZHANG Zhenlan (474)
- Evaluation of pathogenicity of *Botryodiplodia theobromae* and resistance to stem-end rots on the main varieties of mango CHEN Xiaoli, WANG Meng, YANG Ye, LI Yulong (481)

Storage·Processing

- Changes in firmness, color and correlation analysis of ‘Jinxiu’ peach fruit during storage at 25 °C SU Mingshen, YE Zhengwen, ZHOU Huijuan, DU Jihong, LI Hongyi, LI Xiongwei, GE Zhigang, YAO Shenjie (487)
- Influence of 1-MCP on reactive oxygen species content and scavenger enzyme activity in persimmon fruit treated with CO₂ LI Ying, CHENG Qing, LI Ran, HE Shuixian, LI Bao (494)

Special focus·Reviews

- Recent research advances in microRNA of fruit crops LI He, MAO Jianxin, DONG Xiangxiang, ZHANG Zhihong, JI Mingshan (502)

Breeding Reports

- Breeding report of a new early ripening Chinese sand pear cultivar ‘Jinmi’ CHEN Qiliang, HU Hongju, TIAN Rui, YANG Xiaoping, ZHANG Jingguo, FAN Jing (511)
- ‘Guomei’, a new high quality plum cultivar XU Ming, LIU Weisheng, SUN Meng, LIU Ning, ZHANG Yuping, ZHANG Qiuping, LIU Shuo, GAO Han (514)
- ‘Shen Yang’, a new strawberry cultivar with high quality and Anthracnose resistance GAO Qinghua, YE Zhengwen, DUAN Ke, ZHENG Hongqing, ZHANG Liqing (517)

王树军, 等: 荔枝多酚氧化酶基因启动子克隆与功能分析 图版
(正文见427—433页)

WANG Shujun, et al: Cloning and functional analysis of the promoter of *PPO* gene from Litchi (*Litchi chinensis* Sonn.) Plates

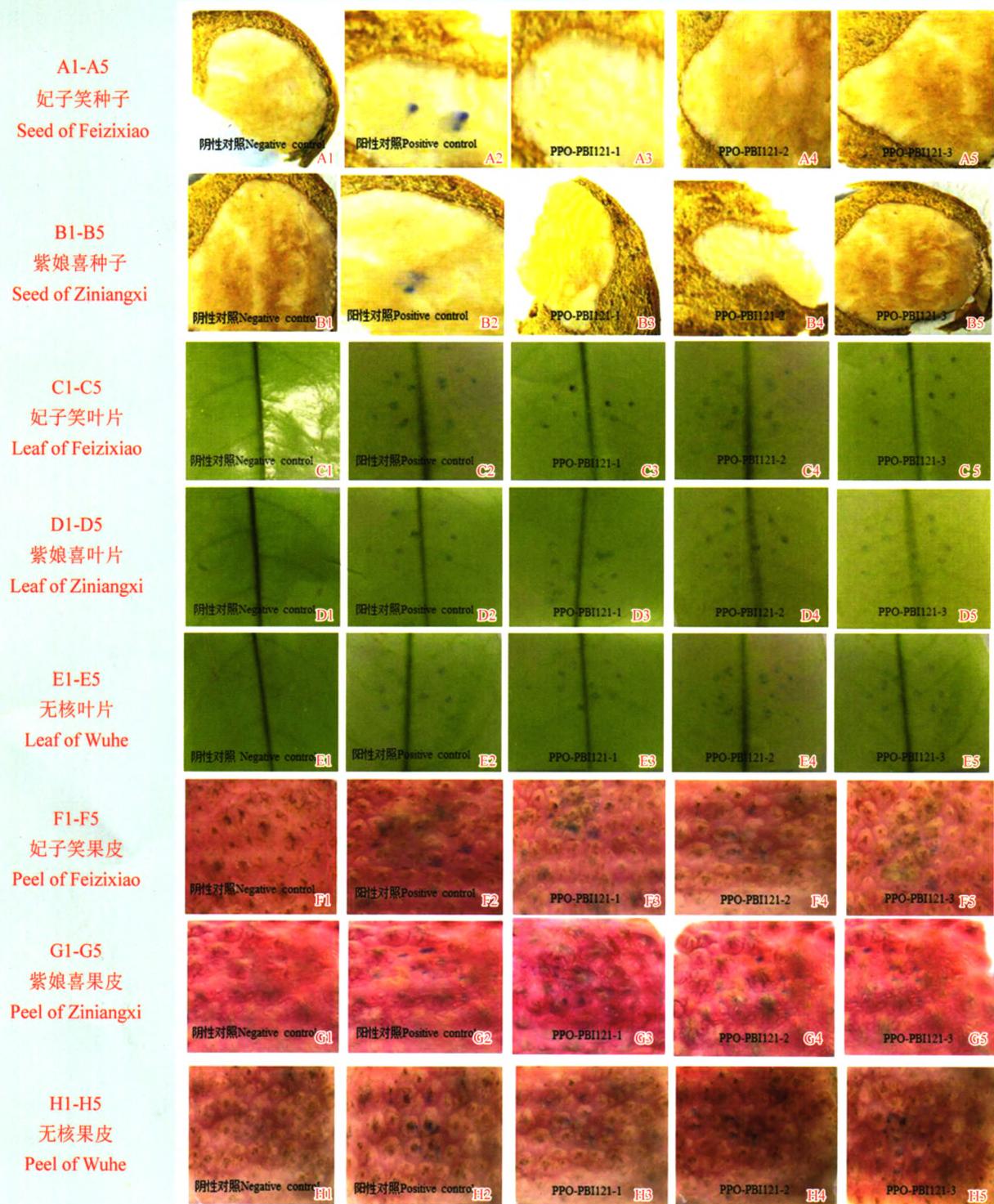


图 版 说 明

A1~B5. 含不同启动子片段的植物表达载体转化不同品种荔枝种子; C1~E5. 含不同启动子片段的植物表达载体转化不同品种荔枝叶片; F1~H5. 含不同启动子片段的植物表达载体转化不同品种荔枝果皮

Explanation of plates

A1-B5. Expression of transient expression vectors containing different promoter sequences in seeds of different litchi cultivars; C1-E5. Expression of transient expression vectors containing different promoter sequences in leaves of different litchi cultivars; F1-H5. Expression of transient expression vectors containing different promoter sequences in peel of different litchi cultivars