

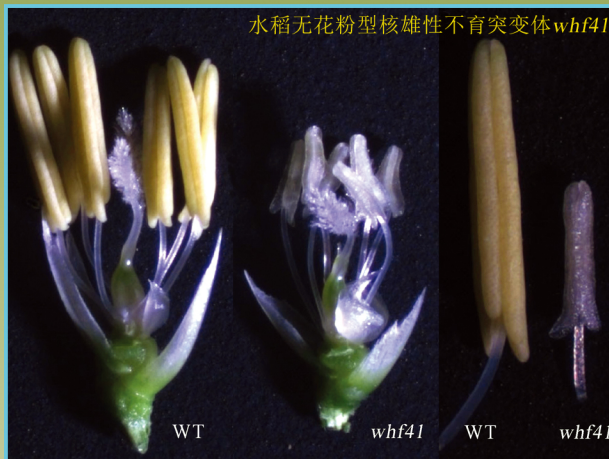


ISSN 1001-7216
CODEN ZSKHBX

2017年5月 第31卷 第3期 Vol. 31 No.3

中国水稻科学

CHINESE JOURNAL OF RICE SCIENCE



中国水稻研究所 主办

水稻生物学国家重点实验室 协办

Sponsored by the China National Rice Research Institute
in Cooperation with the State Key Laboratory of Rice Biology



万方数据

目 次

研究报告

- 利用 CRISPR/Cas9 系统定向改良水稻粒长和穗粒数性状 223
沈兰 李健 付亚萍 王俊杰 华宇峰 焦晓真 严长杰 王克剑
- 水稻齿叶矮缩病毒 Pns10 蛋白在水稻原生质体内的表达 232
张洁 陈晓敏 吴锦鸿 朱重庆 丁新伦 吴祖建
- 矮秆小粒水稻潇湘矮的形态学与分子遗传学分析 238
吕育松 谢耘丰 圣忠华 鄢亚文 唐绍清 胡培松 魏祥进
- 水稻无花粉型核雄性不育突变体 *whf41* 的鉴定与基因定位 247
轩丹丹 孙廉平 张沛沛 张迎信 吴玮勋 杨正福 占小登 沈希宏 曹立勇 程式华
- 稻米垩白性状对高温耐性的 QTL 分析 257
张桂莲 廖斌 唐文帮 陈立云 肖应辉
- 不同秧龄下机插方式与密度对杂交稻光合生产及产量的影响 265
李应洪 王海月 吕腾飞 张绍文 蒋明金 何巧林 孙永健 马均
- 增氧模式对水稻光合特性及产量的影响 278
胡继杰 朱练峰 钟楚 林育炯 张均华 曹小闯 禹盛苗 Allen Bohr JAMES 金千瑜
- 控释掺混尿素对稻麦产量及氮素利用率的影响 288
张敬昇 李冰 王昌全 罗晶 古琄 龙思帆 何杰 向毫 尹斌
- 八个抗稻瘟病基因在华南籼型杂交水稻中的分布 299
汪文娟 周继勇 汪聪颖 苏菁 封金奇 陈炳 冯爱卿 杨健源 陈深 朱小源
- 二化螟对双酰胺类杀虫剂的抗药性监测和交互抗性研究 307
赵丹丹 周丽琪 张帅 姚蓉 高聪芬
- 稻纵卷叶螟对不同植物的产卵趋性与取食选择 315
李传明 韩光杰 杨亚军 祁建杭 刘琴 徐健 吕仲贤
- 南繁区稻瘟病菌遗传多样性和群体遗传结构的 AFLP 分析 320
朱名海 皮磊 舒灿伟 周而勋

综述

- 水分与氮素及其互作对水稻产量和水肥利用效率的影响研究进展 327
李俊峰 杨建昌

CHINESE JOURNAL OF RICE SCIENCE(Bimonthly)

Volume 31, Number 3, May 2017

<http://www.ricesci.cn>; E-mail: cjrs@263.net

CONTENTS

Research Papers

- Orientation Improvement of Grain Length and Grain Number in Rice by Using CRISPR/Cas9 System Surface of Rice Seedlings 223
SHEN Lan, LI Jian, FU Yaping, WANG Junjie, HUA Yufeng, JIAO Xiaozhen, YAN Changjie, WANG Kejian
- Expression of Pns10 Protein of *Rice ragged stunt virus* in Rice Protoplasts 232
ZHANG Jie, CHEN Xiaomin, WU Jinhong, ZHU Chongqing, DING Xinlun, WU Zujian
- Morphological and Molecular Genetic Analysis of a Dwarf and Small Grain Rice Variety Xiaoxiang' ai 238
LÜ Yusong, XIE Yunfeng, SHENG Zhonghua, WU Yawen, TANG Shaoqing, HU Peisong, WEI Xiangjin
- Characterization and Gene Mapping of a No-pollen Genic Sterile Mutant *whf41* in Rice 247
XUAN Dandan, SUN Lianping, ZHANG Peipei, ZHANG Yingxin, WU Weixun, YANG Zhengfu, ZHAN Xiaodeng, SHEN Xihong, CAO Liyong, CHENG Shihua
- Identifying QTLs for Thermo-tolerance of Grain Chalkiness Trait in Rice 257
ZHANG Guilian, LIAO Bin, TANG Wenbang, CHEN Liyun, XIAO Yinghui
- Effects of Mechanically-transplanted Modes and Density on Photosynthetic Production and Yield in Hybrid Rice at Different Seedling-ages 265
LI Yinghong, WANG Haiyue, LÜ Tengfei, ZHANG Shaowen, JIANG Mingjin, HE Qiaolin, SUN Yongjian, MA Jun
- Effects of Aeration Methods on Photosynthetic Characteristics and Yield of Rice 278
HU Jijie, ZHU Lianfeng, ZHONG Chu, LIN Yujiong, ZHANG Junhua, CAO Xiaochuang, YU Shengmiao, Allen Bohr JAMES, JIN Qianyu
- Effects of Controlled Release Blend Bulk Urea on the Yield and Nitrogen Use Efficiency of Wheat and Rice 288
ZHANG Jingsheng, LI Bing, WANG Changquan, LUO Jing, GU Jun, LONG Sifan, HE Jie, XIANG Hao, YIN Bin
- Distribution of Eight Rice Blast Resistance Genes in *indica* Hybrid Rice in China 299
WANG Wenjuan, ZHOU Jiyong, WANG Congying, SU Jing, FENG Jinqi, CHEN Bing, FENG Aiqing, YANG Jianyuan, CHEN Shen, ZHU Xiaoyuan
- Resistance Monitoring and Cross-resistance to the Diamides in the Rice Stem Borer, *Chilo suppressalis* (Lepidoptera: Pyralidae) 307
ZHAO Dandan, ZHOU Liqi, ZHANG Shuai, YAO Rong, GAO Congfen
- Oviposition and Feeding Preference of *Cnaphalocrocis medinalis* (Guenée) for Four Different Plants 315
LI Chuanming, HAN Guangjie, YANG Yajun, QI Jianhang, LIU Qin, XU Jian, LÜ Zhongxian
- AFLP Analyses of Genetic Diversity and Population Genetic Structure of *Magnaporthe oryzae* from South China Crop Breeding Area 320
ZHU Minghai, PI Lei, SHU Canwei, ZHOU Erxun

Review

- Research Advances in the Effects of Water, Nitrogen and Their Interaction on the Yield, Water and Nitrogen Use Efficiencies of Rice 327
LI Junfeng, YANG Jianchang