

# 西南大学学报

## (自然科学版)

第 45 卷 第 1 期

总第 337 期

2023 年 1 月 20 日出版

## 目 次

### · 水稻重要性状遗传解析与设计育种专题 ·

- 水稻小粒突变体 *smg2* 的表型鉴定和候选基因分析 ..... 朱洪慧, 李映姿,  
王成洋, 高远卓, 林泓, 晏紫仪, 李云峰 (002)  
嘌呤合成途径基因 *VAL1* 超表达水稻光合调控生理机制研究 ..... 李玲依, 焦颖瑞, 胡健,  
杨仕会, 曹红宇, 张红梅, 王兵兵, 冯萍, 凌英华, 张婷, 何光华, 姚贺盛 (012)  
*OsCYP96B4* 等位突变体的抗病性分析 ..... 蔡林军, 员菡, 孙航,  
郭云霞, 彭西蔓, 戴继超, 桑贤春, 张长伟 (020)  
基于水稻矮秆长粒 CSSL-Z688 的 QTL 鉴定及 SSSLs 培育 ..... 李苗苗, 李儒香, 秦鱼河,  
邓苛莉, 余金琎, 徐光益, 向思茜, 杨正林, 桑贤春, 凌英华, 何光华, 赵芳明 (033)  
水稻粒型染色体片段代换系 Z8 的 QTL 定位与次级代换系选育 ..... 毛祖元, 陈倩,  
邸新晏, 陈梅, 王晓菲, 赵芳明, 凌英华 (045)

### · 农业与生命科学 ·

- 陆地棉 RIL 群体产量与纤维品质性状 QTL 定位 ..... 黄莎, 张正圣, 王文文, 刘大军 (055)  
犬弓首蛔虫黏蛋白 2 的原核表达及多克隆抗体的制备 ..... 贾红菓, 谭纯, 王冰楠,  
梅四鹏, 孙雪, 杨晓伟, 周荣琼 (066)  
百合“索邦”病程相关蛋白基因 *LhSorPR10-2* 的克隆与分析 ..... 杜文婷, 孙正琼,  
谭丽君, 柴楠, 眭顺照, 刘道凤 (074)  
上海市乡村多年生花卉配置模式评价及优化研究 ..... 李清韵, 唐倩雯, 刘涛, 申瑞雪, 陈丹 (083)

### · 经济研究 ·

- 数字出版对数字经济影响力的实证研究——以重庆市为例 ..... 吴江文, 袁毅, 陈正伟, 黄黎平 (092)  
ESG 表现对农业上市公司绩效的影响研究 ..... 朱柏洋 (110)  
基于多源数据的都市圈同城化发展现状探究——以成德眉资为例 .....  
刘家莉, 吴雅, 刘秀华, 刘勇 (123)  
乡村产业融合对农民生活满意度的影响 ..... 陈晓红, 张超正, 杨千太 (139)  
基于社会网络分析的乡村旅游地联合发展研究——以海口市为例 ..... 彭雪凌, 许先升, 许新 (149)

### · 地球与环境科学 ·

- 阿克苏河流域地名文化景观分布特征及成因探析 ..... 周璟, 王盼, 王宏卫,  
谈波, 马晨, 王晓琴, 代芯妍 (159)  
全分辨率与多视法 DInSAR 矿区地面沉降监测研究 ..... 李宾,  
陶秋香, 牛冲, 刘晓帅, 张亚凤 (173)

### · 工程与信息技术 ·

- 单管无线电能传输逆变系统纹波抑制研究 ..... 杨奕, 张学健, 罗蕾, 谢诗云, 叶庆 (183)  
道岔转辙机自供能传感器设计与能量俘获特性试验 ..... 李守太, 高鸣源, 杨明金,  
王平, 张丽, 陈子文, 李云伍, 蒲应俊 (194)

# JOURNAL OF SOUTHWEST UNIVERSITY

## (NATURAL SCIENCE EDITION)

Vol. 45 No. 1

Total No. 337

Jan. 20, 2023

---

## CONTENTS

Identification of Phenotype and Candidate Gene of Small Grain Mutant *smg2* in

Rice (*Oryza sativa* L.) ..... ZHU Honghui, LI Yingzi,  
WANG Chengyang, GAO Yuanzhuo, LIN Hong, YAN Ziyi, LI Yunfeng (002)

Study on the Physiological Mechanism of Photosynthetic Regulation of *VAL1*

Overexpression in Rice (*Oryza sativa* L.) ..... LI Lingyi, JIAO Yingrui, HU Jian,  
YANG Shihui, CAO Hongyu, ZHANG Hongmei, WANG Bingbing,  
FENG Ping, LING Yinghua, ZHANG Ting, HE Guanghua, YAO Hesheng (012)

Resistance Analysis of *OsCYP96B4* Allele Mutants ..... CAI Linjun, YUN Han, SUN Hang,  
GUO Yunxia, PENG Ximang, DAI Jichao, SANG Xianchun, ZHANG Changwei (020)

Identification of QTL Based on a Dwarf and Long-Large Grain Rice CSSL-Z688 and

Development of SSSLS ..... LI Miaomiao, LI Ruxiang, QIN Yuhe,  
DENG Keli, YU Jinjin, XU Guangyi, XIANG Siqian, YANG Zhenglin,  
SANG Xianchun, LING Yinghua, HE Guanghua, ZHAO Fangming (033)

QTL Mapping of Important Agronomic Traits and Breeding of Secondary

Substitution Lines of CSSL-Z8 in Rice ..... MAO Zuyuan, CHEN Qian,  
DI Xinyan, CHEN Mei, WANG Xiaofei, ZHAO Fangming, LING Yinghua (045)

QTL Mapping of Yield and Fiber Quality Traits in an Upland Cotton

RIL Population ..... HUANG Sha, ZHANG Zhengsheng, WANG Wenwen, LIU Dajun (055)

Prokaryotic Expression and Polyclonal Antibody Preparation of

*Toxocara canis* Mucin-2 ..... JIA Hongguo, TAN Chun,  
WANG Bingnan, MEI Sipeng, SUN Xue, YANG Xiaowei, ZHOU Rongqiong (066)

Cloning and Analysis of Pathogenesis-related Protein Gene *LhSorPR10-2* from

‘Sorbonne’ Lily ..... DU Wenting, SUN Zhengqiong,  
TAN Lijun, CHAI Nan, SUI Shunzhao, LIU Daofeng (074)

Flowers in Shanghai Countryside ..... LI Qingyun,

TANG Qianwen, LIU Tao, SHEN Ruixue, CHEN Dan (083)

An Empirical Study on the Influence of Digital Publishing on Digital Economy

——Taking Chongqing as an example ..... WU Jiangwen,

YUAN Yi, CHEN Zhengwei, HUANG Liping (092)

Research on the Impact of ESG on the Performance of Agricultural

Listed Companies ..... ZHU Baiyang (110)

Research on the Development Status of Urban Integration of Metropolitan

Areas Based on Multi-source Data —— A Case Study of

Chengdu-Deyang-Meishan-Ziyang ..... LIU Jiali, WU Ya, LIU Xiuhua, LIU Yong (123)

The Impact of Industrial Integration on Farmers' Life Satisfaction ..... CHEN Xiaohong,

ZHANG Chaozheng, YANG Qiantai (139)

Research on the Combined Development of Rural Tourism Based on Social Network Analysis

——A Case Study of Haikou City ..... PENG Xueling, XU Xiansheng, XU Xin (149)

Analysis on the Distribution Characteristics and Causes of Place Name Cultural

Landscape in Aksu River Basin ..... ZHOU Jing, WANG Pan,

WANG Hongwei, TAN Bo, MA Chen, WANG Xiaoqin, DAI Xinyan (159)

Study on the Mining Area Subsidence Monitored by DInSAR with Full-resolution and

Multi-look SAR Images ..... LI Bin, TAO Qiuxiang,

NIU Chong, LIU Xiaoshuai, ZHANG Yafeng (173)

Research on Ripple Suppression of Single-Tube Wireless Power Transmission

Inverter System ..... YANG Yi, ZHANG Xuejian, LUO Lei, XIE Shiyun, YE Qing (183)

Design and Experimental Investigation on Power Generation Performance of

Self-Powered Sensor of Turnout Switch Machine ..... LI Shoutai, GAO Mingyuan,

YANG Mingjin, WANG Ping, ZHANG Li, Chen Ziwen, LI Yunwu, PU Yingjun (194)