

第 50 卷第 4 期
(总第 283 期)
2024 年 8 月

第十届编辑委员会

学术顾问：官春云 印遇龙

主任：邹学校

副主任：刘仲华 段美娟
陈光辉

委员（按姓氏拼音排序）：

柏连阳 曹福祥 陈光辉
陈信波 邓子牛 段美娟
方俊 方达 甘德欣
贺建华 贺喜 侯德兴
纪雄辉 李有志 林亲录
刘霞 刘忠松 刘仲华
卢向阳 罗琳 单杨
沈文辉 苏爱华 孙志良
谭支良 唐文帮 王国梁
王辉 王克林 吴明亮
吴卫国 肖调义 萧浪涛
谢方平 熊兴耀 徐明岗
杨国顺 易自力 郑晓峰
朱幸辉 邹冬生 邹学校

主编 苏爱华
副主编 罗慧敏
毛友纯
执行编辑 罗慧敏
电脑编辑 刘佳宁

目 次

作物学

- 基于全基因组关联分析的水稻穗长 QTL 定位及其候选基因分析.....
.....祝小雅, 闫蕴韬, 桂金鑫, 石居斌, 张海清, 贺记外(1)
基施硫肥对水稻吸收和积累镉的影响.....蒋超, 吴锦标, 伍俊溢, 杨捷, 邹竹, 魏祥东(10)
基于非靶向代谢组学的 G80 烟叶成熟进程的代谢特征.....
.....钟汝力, 卢向阳, 刘璐, 谢向丽, 刘雄伟, 范伟, 周喜新(21)
稻茬烤烟生长和烟叶品质对促早生快发施肥模式的响应.....
.....王灿, 曾惠宇, 江智敏, 文伟康, 肖志鹏, 胡庆辉, 夏冰, 邓小华(28)

生物科学与技术

- 基于转录组与代谢组料慈竹的耐盐机制分析.....
.....杜娟, 陈咸吉, 王哲, 聂现辉, 陈彦超, 艾文胜, 孟勇, 汪启明, 彭国平(35)
链霉菌中一类同源非典型端粒的克隆及分析.....李鹏, 刘兰, 王通, 黄筱萍(42)
生菜 HSF 基因家族的全基因组鉴定与表达分析.....陈丽, 范双喜(51)

植物保护

- 辣椒炭疽病拮抗内生菌的分离鉴定及防效试验.....
.....高绍凯, 邓金奇, 李晨曦, 朱桓吾, 李陈贞, 罗坤(60)
金龟子绿僵菌制剂对二化螟的防效及体内相关酶活性的影响.....
.....邓璇璇, 匡炜, 方宝华, 张亚, 刘双清(65)

畜牧·兽医·水产

- 日粮磷水平对夏南牛生长性能和血清生化指标及瘤胃微生物区系的影响.....
.....黄天琪, 万发春, 沈维军, 王祚, 刘磊, 肖定福, 兰欣怡(70)
非复制型尿嘧啶营养缺陷型弓形虫对雏鸡组织荷虫量及脾脏细胞因子表达水平的影响.....
.....刘思勤, 祁浩瑞, 雷佳佳, 任超(76)
大口黑鲈烂身病病原菌的分离鉴定及其药物敏感性.....
.....冯兴浪, 丁戈野, 张秋实, 侯金亮, 刘智明, 陈中元, 向建国, 肖调义, 李军华(82)

农业工程

- 稻田微型螺旋推进抑草机的设计与试验.....吴坚, 崔正卿, 杨生旺, 张同峰(89)
影响白萝卜拔取力关键因素的研究与试验.....赵周桥, 刘大为, 肖霄, 谢方平, 郑鹏, 李旭(95)
基于 CFD 的烟叶松散润叶筒气固耦合数值模拟.....
.....徐超, 金浩, 蒋明洋, 沈凯, 潘凡达, 樊虎(103)
酸水解联合生物转化对剑麻皂素提取效率的影响.....
.....温岚, 朱作华, 陈伟男, 彭源德, 谢纯良(111)
益智酮乙纳米乳液的制备工艺优化及其稳定性.....
.....谢文杰, 范伟, 郭时印, 覃静萍, 杨志远, 肖航, 唐忠海(119)

CONTENTS

Crop Science

- Panicle length QTL mapping and candidate gene analysis based on genome-wide association analysis in rice.....
.....ZHU Xiaoya, YAN Yuntao, GUI Jinxin, SHI Jubin, ZHANG Haiqing, HE Jiwei (1)
Effect of basal application of sulfur fertilizer on cadmium uptake and accumulation in rice.....
.....JIANG Chao, WU Jinbiao, WU Junyi, YANG Jie, ZOU Zhu, WEI Xiangdong (10)
Metabolic characterisation in maturation process of flue-cured tobacco variety G80 based on untargeted metabolomics.....
.....ZHONG Ruli, LU Xiangyang, LIU Lu, XIE Xiangli, LIU Xiongwei, FAN Wei, ZHOU Xixin (21)
Response in growth and leaf quality of paddy-tobacco to the fertilization mode of promoting early growth and rapid development.....
.....WANG Can, ZENG Huiyu, JIANG Zhimin, WEN Weikang, XIAO Zhipeng, HU Qinghui, XIA Bin, DENG Xiaohua (28)

Bioscience and Biotechnology

- Salt tolerance mechanism analysis of *Bambusa distegia* based on transcriptome and metabolome.....
DU Juan, CHEN Xianji, WANG Zhe, NIE Xianhui, CHEN Yancao, AI Wensheng, MENG Yong, WANG Qiming, PENG Guoping (35)
Cloning and analysis of a class of homologous atypical telomeres of *Streptomyces*.....LI Peng, LIU Lan, WANG Tong, HUANG Xiaoping (42)
Genome-wide identification and expression analysis of HSF gene family in lettuce.....CHEN Li, FAN Shuangxi (51)

Plant Protection

- Isolation and identification of antagonistic endophytic bacteria in capsicum and the control efficiency on capsicum anthracnose.....
.....GAO Shaokai, DENG Jinqi, LI Chenxi, ZHU Huanwu, LI Chenzhen, LUO Kun (60)
Effects of *Metarhizium anisopliae* preparation against *Chilo suppressalis* and on related enzyme activities in vivo.....
.....DENG Xuanxuan, KUANG Wei, FANG Baohua, ZHANG Ya, LIU Shuangqing (65)

Animal · Veterinary · Aquatic

- Effects of dietary phosphorus levels on growth performance, serum biochemical indices and rumen microbiota of Xianan cattle.....
.....HUANG Tianqi, WAN Fachun, SHEN Weijun, WANG Zuo, LIU Lei, XIAO Dingfu, LAN Xinyi (70)
The effect of the parasite load and expression levels of splenic cytokines in chicks infected with nonreplicating *Toxoplasma* uracil auxotrophs.....
.....LIU Siqin, QI Haorui, LEI Jiajia, REN Chao (76)
Isolation, identification and drug sensitivity analysis of pathogenic bacteria causing rotten disease in *Micropterus salmoides*.....FENG Xinglang,
DING Geye, ZHANG Qiushi, HOU Jinliang, LIU Zhiming, CHEN Zhongyuan, XIANG Jianguo, XIAO Tiaoyi, LI Junhua (82)

Agricultural Engineering

- Design and experiment of a microspiral propulsion weed control machine for paddy field.....
.....WU Jian, CUI Zhengqing, YANG Shengwang, ZHANG Tongfeng (89)
Study and experiment on the key factors affecting the extraction force of white radish.....
.....ZHAO Zhouqiao, LIU Dawei, XIAO Xiao, XIE Fangping, ZHENG Peng, LI Xu (95)
Numerical simulation of gas-solid coupling in moistening cylinder of tobacco based on CFD.....
.....XU Chao, JIN Hao, JIANG Mingyang, SHEN Kai, PAN Fanda, FAN Hu (103)
Effects of the method of acid hydrolysis combining with biotransformation on tigogenin production efficiency in sisal.....
.....WEN Lan, ZHU Zuohua, CHEN Weinan, PENG Yuande, XIE Chunliang (111)
Optimization of the preparation process of yakuchinone B nanoemulsion and its stability.....
.....XIE Wenjie, FAN Wei, GUO Shiyin, QIN Jingping, YANG Zhiyuan, XIAO Hang, TANG Zhonghai (119)