

ACTA

ISSN 1000-7091
CODEN: HNUOA6

华
北
农
学
报



华北农学报

ACTA AGRICULTURAE BOREALI-SINICA

- 中国精品科技期刊 ■ 中文核心期刊 ■ 中国科学引文数据库核心期刊 ■
- 中国科技核心期刊 ■ 中国农林核心期刊 ■ RCCSE中国核心学术期刊 ■

二
〇
二
二
年
■
第
三
十
七
卷
■
第
四
期

华
北
农
学
报
编
辑
部



学报官网



微信公众号

2022 第37卷 第4期
Vol.37 No.4

华北农学报编辑部



目 次

作物遗传育种·种质资源·生物技术

- 玉米 *NRL* 基因家族鉴定与逆境表达分析 赵长江,都梦翔,宋巨奇,徐尚缘,贺琳,徐晶宇,杨克军,李佐同(1)
- 谷子 *SiPRR73* 基因的光温调控模式及非生物胁迫响应特性
..... 闫留延,李剑峰,张世文,张博,王永芳,张小梅,祖超凡,王振山,桑璐曼,何占祥,贾小平,董志平(11)
- 大豆 *GmPP2C89* 基因在盐胁迫中的功能分析 张斌(20)
- StRab5b* 基因对马铃薯花青素合成的影响 张之为,范俊臣,康立茹,贾瑞芳,田再民,赵君(28)
- 基于 SSR 标记的莴苣品种鉴定体系的建立及应用
..... 凌晨,赵洪,颜军,马莹雪,冯艳芳,张靖立,李波,邓超,徐振江(34)
- 岷江百合多聚半乳糖醛酸酶抑制蛋白基因及其启动子的克隆与分析
..... 邓婕,王翰林,李有玉,王自娥,陈晓华,刘迪秋(45)
- 沟叶结缕草 *ZmCOR410* 基因抗逆功能鉴定 张晓寒,陈彦良,马欣,张珊珊,韦善君(53)
- 北细辛 *AhOMT1* 基因的克隆及原核表达分析 王亚男,梁岩岩,严文培,张银萍,李强,吴秀菊(62)
- 红麻 *WRKY* 基因家族鉴定及其盐胁迫下的表达分析 李辉,康泽培,邱财生,戴志刚,邱化蛟(71)

耕作栽培·生理生化

- 不同轮作模式对旱地番茄品质、产量及土壤真菌多样性的影响
..... 李万星,李丹,李小霞,曹晋军,靳鲲鹏,韩文清,苏秀敏,王佼,黄学芳,刘永忠(82)
- DA-6 与 CCC 复配对密植下玉米叶片光合及抗早衰能力的影响
..... 王泳超,燕博文,曹红章,王山聪,马梦金,张俊杰,郭家萌,王浩,邵瑞鑫,杨青华(90)
- 多穗型与大穗型超级稻品种幼穗分化期碳氮代谢与产量构成 李文秀,戴力,王礼煌,方宝华,王学华(103)
- 南方早熟油菜新品种丰产稳产性分析及其光合特性 陆光远,陈晓婷,余珠,付桂萍,张宗急,赵永国(113)
- 干旱胁迫下不同来源多根葱根系及叶片光合特性的比较 包秀霞,廉勇,慕宗杰,张欢(122)
- 不同货架温度结合 1-MCP 处理对华红、华月苹果质地性状的影响 贾朝爽,王志华,王文辉(128)
- 不同砧木对马瑟兰葡萄酒品质的影响 户金鸽,白世践,潘绪兵,陈光,赵荣华,蔡军社(141)
- 基于 siGFP 系统的嫁接体接口处的细胞质融合检测 李冬怡,邓竹英,梁大成(151)

资源环境·植物保护

- 不同覆膜方式及施氮量对春玉米产量和氮素吸收利用的影响
..... 付敬锋,罗上轲,程乙,张军,魏盛,曾涛,陈杜,魏鹏程,郑迎霞,宋碧(158)
- 氮肥运筹对不同玉米品种氮素吸收、利用及田间氮平衡的影响 李强,孔凡磊,袁继超(169)
- 豫北潮土区轮耕模式对小麦光合特性、产量及土壤养分的影响
..... 牛润芝,朱长伟,姜桂英,杨锦,罗澜,申凤敏,刘芳,刘世亮(182)
- 玉米对灰斑病胁迫的生理生化响应 赵思琪,曲比伍合,罗婷,余学杰,柯永培,苟齐贤,石海春(190)
- 氮肥对控制大豆孢囊线虫病危害的作用 贾建平,李金鸿,于敬文,余曦彤,彭德良,李惠霞,黄文坤(198)
- 甘薯 4 种 RNA 病毒多重 RT-PCR 检测方法的建立 冯丽婷,张剑峰,迟胜起(206)
- 马铃薯卷叶病毒与 S 病毒重组双 CP 多克隆抗体的制备 吉祥,宋志成,韦晓玲,杨煜,隋炯明,郭宝太(212)

畜牧·水产·兽医

- 基于转录组学筛选绵羊肉质性状相关候选基因 梁鹏,张稳,冯登侦,强浩,荣轩,孟科(220)
- 猪产仔数的全基因组关联分析 付言峰,赵为民,李辉,李碧侠,程金花,徐小波,任守文(232)

CONTENTS

Crop Genetics & Breeding · Germplasm Resources · Biotechnology

Genome-wide Identification and Expression Response to Stresses Analysis of NRL Gene Family in <i>Zea mays</i>	ZHAO Changjiang et al(1)
Regulation Pattern of Photoperiod, Temperature and Abiotic Stress on <i>SiPRR73</i> in Foxtail Millet	YAN Liuyan et al(11)
Functional Analysis of Soybean <i>GmPP2C89</i> Gene under Salt Stress	ZHANG Bin(20)
Effect of <i>StRab5b</i> Gene on Anthocyanin Synthesis in Potato	ZHANG Zhiwei et al(28)
Establishment and Application of Variety Identification System Based on SSR Markers for Lettuce	LING Chen et al(34)
Cloning and Analysis of a Polygalacturonase Inhibiting Protein Gene and Its Promoter from <i>Lilium regale</i> Wilson	DENG Jie et al(45)
Function Identification of <i>ZmCOR410</i> from <i>Zoysia matrella</i> in Resistance to Abiotic Stresses	ZHANG Xiaohan et al(53)
Cloning and Prokaryotic Expression Analysis of <i>AhOMT1</i> Gene from <i>Asarum heterotropoides</i>	WANG Ya'nan et al(62)
Identification of Kenaf WRKY Gene Family and Its Expression Analysis under Salt Stress	LI Hui et al(71)

Tillage & Cultivation · Physiology & Biochemistry

Effects of Different Rotation Patterns on Tomato Quality and Yield and Soil Fungi Diversity in Dryland	LI Wanxing et al(82)
Effects of the Mixture of DA-6 and CCC on the Photosynthesis and Anti-Premature Senescence of Maize Leaves under Dense Planting	WANG Yongchao et al(90)
Carbon and Nitrogen Metabolism and Yield Composition in Multi-panicle and Large-panicle Super Rice Varieties at Young Panicle Differentiation Stage	LI Wenxiu et al(103)
The Analysis of Yielding Ability, Yield Stability and Photosynthetic Characteristics of Early Mature Rapeseed Varieties in South China Region	LU Guangyuan et al(113)
Comparative Study on Root and Leaf Photosynthesis of <i>Allium polyrhizum</i> from Different Sources under Drought Stress	BAO Xiuxia et al(122)
Effects of Different Shelf Temperature Combined with 1-MCP Treatment on Texture Traits of Huahong and Huayue Apples	JIA Chaoshuang et al(128)
Effects of Different Rootstocks on Wine Quality in Wine Grapes Marselan	HU Jingge et al(141)
Cytoplasmic Fusion Detection at the Grafting Junction Based on Split sfGFP System	LI Dongyi et al(151)

Resources & Environment · Plant Protection

Effects of Different Film Mulching Methods and Nitrogen Application Rates on Yield and Nitrogen Absorption and Utilization of Spring Maize	FU Jingfeng et al(158)
Cultivar Differences in Nitrogen Uptake, Utilization and Field Nitrogen Balance of Maize Hybrids in Response to Nitrogen Management	LI Qiang et al(169)
Effects of Rotation Tillage Pattern on Wheat Photosynthetic Characteristics, Yield, and Soil Nutrients in Fluvo-aquic Soil in North Henan	NIU Runzhi et al(182)
Physiological and Biochemical Responses of Maize to Gray Leaf Spot Stress	ZHAO Siqi et al(190)
Effect of Nitrogen Fertilizer on Soybean Cyst Nematode Disease	JIA Jianping et al(198)
Establishment of a Multiplex RT-PCR Assay for Detection of Four Sweet Potato RNA Viruses	FENG Liting et al(206)
Preparation of Polyclonal Antibody Against Recombinant Double CP of <i>Potato leafroll virus</i> and <i>Potato virus S</i>	JI Xiang et al(212)

Animal Husbandry · Fisheries · Veterinarian

Screening Candidate Genes Related to Meat Quality Traits in Sheep Based on Transcriptome	LIANG Peng et al(220)
Genome Wide Association Analysis of Litter Size in Pigs	FU Yanfeng et al(232)